



July 25, 2014

**Jillian Holloway**  
Project Manager  
Marketing Business Unit

**Chevron Environmental  
Management Company**  
6101 Bollinger Canyon Road  
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Mr. Keith Nowell  
Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

**RECEIVED**

*By Alameda County Environmental Health at 2:29 pm, Jul 25, 2014*

**RE: Focused Conceptual Site Model and Data Gap Identification Work Plan**

2445 Castro Valley Boulevard, Castro Valley, California  
Fuel Leak Case No.: RO0002968

Dear Mr. Nowell,

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please contact me at (925) 790-3513 or by e-mail me at [JillianHolloway@chevron.com](mailto:JillianHolloway@chevron.com).

Sincerely,

A handwritten signature in black ink that reads "Jillian Holloway".

Jillian Holloway  
Union Oil of California – Project Manager

Attachment

Focused Conceptual Site Model and Data Gap Identification Work Plan

Mr. Keith Nowell  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502

Subject:  
Focused Conceptual Site Model and Data Gap Identification Work Plan  
2445 Castro Valley Boulevard, Castro Valley, CA  
Fuel Leak Case No.: RO0002968

ENVIRONMENT

Dear Mr. Nowell:

Date:  
July 25, 2014

On behalf of Chevron Environmental Management Company's affiliate, Union Oil Company of California ("Union Oil"), ARCADIS U.S., Inc. (ARCADIS) is pleased to submit the Focused Conceptual Site Model (CSM) and data gap identification work plan for the following facility (site, **Figures 1 and 2**):

Contact:  
Katherine Brandt

<u>Facility No.</u>	<u>Case No.</u>	<u>Location</u>
3072	RO0002968	2445 Castro Valley Boulevard Castro Valley, California

Phone:  
510.596.9675

Email:  
Katherine.Brandt@  
arcadis-us.com

Alameda County Department of Environmental Health (ACEH), Union Oil, and ARCADIS attended a joint meeting on April 17, 2014 to discuss action items to move this case towards closure. In an email to Union Oil dated May 21, 2014, ACEH requested a Focused CSM to address technical comments. A response to comments is provided in this letter with Focused CSM figures and tables included as an attachment. The Focused CSM tables and figures provide additional or updated information to the CSM and Closure Request submitted on January 30, 2014 to the ACEH.

Our ref:  
B0047335

## Response to Comments

**Comment 1: Diesel**  
*Discuss the presence and distribution of diesel at the site.*

**Response:**  
Total petroleum hydrocarbons as diesel (TPH-d) was not detected in site soil or groundwater prior to the initial case closure in 1993. In 1995, a diesel dispenser leak was reported (**Appendix A**). The leak was identified and fixed shortly after the reported observation and impacted soil was removed from an excavation volume of

2.5 feet by 2.5 feet by 3 feet deep (**Figure 3**). A sample of the excavated soil contained 1,400 milligrams per kilogram (mg/kg) TPH-d and the confirmation soil sample (collected from the bottom of the excavation area) contained 20 mg/kg TPH-d below the environmental screening level (ESL) of 110 mg/kg. Alameda County Health Care Services was on site during the cleanup operations (**Appendix A**).

TPH-d was not detected in groundwater samples collected at the site until 2007 during a cone penetrometer test (CPT) conducted for a follow up to the findings during a baseline assessment completed in 2005. TPH-d was detected in shallow zone groundwater at concentrations of 280 µg/L (CPT-5) and 500 µg/L (CPT-2) at depths of 22 and 36 feet below ground surface (bgs), respectively. TPH-d was not historically detected in groundwater samples collected at MW-4, MW-5, and SB-3. TPH-d was detected in deep zone groundwater at concentrations of 490 µg/L (CPT-1) and 800 µg/L (CPT-4) at depths of 55 and 51 feet bgs, respectively. TPH-d isoconcentration maps for the shallow and deep zones are depicted on **Figures 4a and 4b**, respectively.

ARCADIS reviewed documents from the California Unified Program Agency (CUPA) and found no other reported diesel releases on site since the reported 1995 release from the diesel dispenser. TPH-d detected in site groundwater in 2007 is likely a result of the historical diesel release in 1995.

TPH-d was only detected in groundwater samples collected from CPT borings completed in 2007, indicating that TPH-d detections are limited in time and extent. Silica gel cleanup (SGC) was not conducted for groundwater samples analyzed for TPH-d and reported TPH-d concentrations may overestimate actual concentrations of dissolved-phase diesel range petroleum hydrocarbon in groundwater. The *Technical Justification for Groundwater Plume Length, Indicator Constituents, Concentrations, Buffer Distances (Separation Distances) to Receptors (LTCP Guidance; SFRWQCB 2012)*<sup>1</sup> recommends the use of silica gel cleanup (SGC) for comparison of TPH-d concentrations to Water Quality Objectives (WQOs) or other regulatory criteria. Method 8015B, typically used for TPH-d analysis, is not specific to hydrocarbons unless a SGC is performed; otherwise the reported TPH-d concentration can include polar non-hydrocarbon compounds in addition to the petroleum hydrocarbons that may be present in a water sample. At sites with

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<sup>1</sup> <http://www.waterboards.ca.gov/ust/policy/techjust071211.pdf>. Accessed: July 21, 2014.

biodegrading petroleum, the majority of organic compounds being measured as “TPH-d” (without SGC) can be polar compounds and not dissolved hydrocarbons.

Gas chromatograms generated during TPH-d analyses can also be used to assess contributions of non-polar compounds to TPH-d analyses. TPH-d sample chromatograms for the 2007 CPT groundwater samples CPT-1 and CPT-4 and for a laboratory diesel standard are provided in **Appendix B**. As shown for the laboratory diesel standard TPH-d chromatogram, unweathered diesel has distinct discrete peak and a characteristic unresolved complex mixture (UCM) curve. Weathering of petroleum hydrocarbons via volatilization, dissolution, and biological degradation results in characteristic changes in composition that can be observed on chromatograms. As diesel weathers, the discrete peaks will diminish, but the UCM will generally be retained until near complete weathering has occurred. Review of the sample TPH-d chromatograms (**Appendix B**) resulted in the following observations:

- CPT-1 – the TPH-d chromatogram does not have distinct peaks or UCM characteristic of diesel. The peaks and UCM towards the right-hand side of the chromatogram are consistent with naturally occurring organic matter (NOM) that is not related to diesel.
- CPT-4 – the TPH-d chromatogram for TPH-4 does exhibit characteristics of weathered diesel, indicating that diesel may be present in groundwater at this location. However, the presence of NOM is also indicated. Based on the UCM area, it was estimated that diesel comprised approximately 25% of the total detected TPH-d resulting in an estimated diesel concentration of 200 µg/L in this groundwater sample. .

As detailed in this Focused CSM, the shallow TPH-d plume does not currently impact any sensitive receptors nor does the potential plume path. In addition, the current shallow plume length is less than 250 feet, which is required for class 2 groundwater criteria in the Low Threat Closure policy.

Concentrations of TPH-d detected in deeper groundwater samples collected at the site are also not expected to affect any sensitive receptors. SRWQCB (2012) provides technical justification for groundwater petroleum hydrocarbon plume length. SFRWQCB (2012) states that TPH-d range hydrocarbons (typically C12 to C22) have very low solubilities compared with gasoline-range hydrocarbons (typically C5-C12), therefore, TPH-g should be sufficient to represent dissolved hydrocarbons that may migrate in groundwater as dissolved hydrocarbons. Based on data presented in SFRWQCB (2012), average and 90<sup>th</sup> percentile plume lengths for TPH-g are 248 and



415 feet, respectively. The 90<sup>th</sup> percentile plume length for TPH-g is less than the 90<sup>th</sup> percentile plume length for MTBE (SFRWQCB 2012) shown on Figure 8 and described below in Response to Comment 2. Since the MTBE plume is not expected to reach any sensitive receptors, TPH-d detected in shallow and deeper groundwater beneath the site is also expected to not reach any potential receptors.

**Comment 2:** *Plume Length*

*Modify plume evaluation in accordance with the basin plan using drinking water standards. Include TBA in the analysis. Evaluate maximum plume length using the Technical Justification for Groundwater Plume Length, Indicator Constituents, Concentrations, Buffer Distances (Separation Distances) to Receptors (LTCP Guidance; SWRCB 2012) and plot appropriate buffer distance on the sensitive receptor figure.*

**Response:**

Isoconcentration maps have been updated to reflect the San Francisco Regional Water Quality Control Board's (SFRWQCB) drinking water standards dated December 2013. Isoconcentration maps for TPH-d, total petroleum hydrocarbons as gasoline (TPH-g), tert-butyl alcohol (TBA) and methyl-tertiary butyl ether (MTBE) are shown on **Figures 4a through 7b**. TPH-g and TBA concentrations in the deep zone were non-detect, therefore, isoconcentration maps for these compounds were not created.

The *Technical Justification for Groundwater Plume Length, Indicator Constituents, Concentrations, Buffer Distances (Separation Distances) to Receptors (LTCP Guidance; SWRCB 2012)* details plume characteristics for benzene, MTBE, and TPH-g. Both benzene and TPH-g are non-detect on site. Other constituents found on site include TPH-d and TBA. According to the technical justification, MTBE would be representative of TBA and longer than a plume for TPH-d. Therefore, **Figure 8** depicts the average (317 feet) and 90th percentile plumes (545 feet) for MTBE, based on data presented by SFRWQCB (2012). In addition, the sensitive receptor wells located within 2,000 feet of the site are shown on **Figure 8**. One domestic well and one cooling system return well are located 1,980 feet down gradient and one domestic well is located 1,580 feet cross gradient. All three wells are outside the potential plume migration extent.

The nearest surface water is an unidentified canal located 1,425 feet east (cross gradient). The creek is lined between Castro Valley Boulevard and Interstate 580

(**Appendix C**) and not hydraulically connected to the groundwater down gradient of the site. Therefore, the creek is not at risk of plume migration.

The closest well receptor is a domestic well over 1,900 feet down gradient. The closest surface water receptor is 1,425 feet cross gradient. Both of these meet the Low Threat Closure Policy 2c: the nearest existing water supply well or surface-water body is greater than 1,000 feet from the defined plume boundary.

**Comment 3:** *Mobile/Jiffy Lube*

*Provide a figure showing the relative location of the Mobil/Jiffy Lube to the site and provide material referenced as Appendix G, but not provided in document. Evaluate if it is possible to use Jiffy Lube for an examination of plume length determination, providing well details for the Mobil/Jiffy Lube.*

**Response:**

The Mobile/Jiffy Lube site (Jiffy Lube) is located approximately 210 feet downgradient with the nearest monitoring well located 240 feet cross gradient. Five monitoring wells were associated with Jiffy Lube but were destroyed January 20, 2011. Jiffy Lube monitoring well details are provided in Table 1 and historic analytical data are provided in **Appendix D**.

The Jiffy Lube monitoring wells may not be used to determine current plume length; however, analytical data suggest the shallow plumes did not reach the Jiffy Lube site as of January 2011.

**Comment 4:** *Groundwater Flow*

*Evaluate if groundwater flow follows the bedrock surface and plot groundwater flow direction using a rose diagram.*

**Response:**

Boring logs from the site and nearby Jiffy Lube site were reviewed to determine the depth to bedrock. Overall, the depths are shallower on the Jiffy Lube site and deeper towards the southwest corner of the site (**Figure 9**). The variability seen on site is likely due to the various drilling methods. In addition, site boring logs indicated that the groundwater elevation was encountered within the bedrock formation. This suggests groundwater flow does not occur along the bedrock surface.

Historical groundwater reports for Jiffy Lube, Thrifty Oil (2504 Castro Valley Boulevard), Stop 'N Save (20570 Stanton) and the site were reviewed to determine the direction of groundwater flow and the site specific average hydraulic gradient.

The dominant groundwater flow direction is to the northeast (**Figure 10**). The average hydraulic gradient on site is 0.014 foot per foot to the northeast. The northeast gradient is opposite of the bedrock contour, reinforcing the fact that groundwater flow on the site does not follow the bedrock contour.

**Comment 5: Vertical Delineation**

*Evaluate the source and extent of MTBE detected in groundwater samples at depth (CPT-1 and CPT-4).*

**Response:**

MTBE was detected above the SFRWQCB's Environmental Screening Limit of 5 micrograms per liter ( $\mu\text{g/L}$ ) in one of two deep groundwater samples collected in 2007. The one exceedance was at CPT-4 (55 feet bgs) and the detected concentration was 10  $\mu\text{g/L}$ . This concentration is expected to have decreased in the last seven years due to natural attenuation in the area.

The source of MTBE on site is unknown. MTBE was a common fuel additive until 2005 and may be from a gasoline leak. There are no reported gasoline leaks at the site during this period so the source is unconfirmed.

The low threat closure policy for class 2 groundwater requires MTBE concentrations below 1,000  $\mu\text{g/L}$ . Site MTBE concentrations are well below this level and are acceptable for low threat closure.

**Comment 6: Release History**

*Provide references to the 1995 and 2005 leaks mentioned in the RFC.*

**Response:**

The Conceptual Site Model and Request for Low-Threat Closure Addendum, dated January 30, 2014, references a diesel leak in 1995 and the case re-opening in 2005. The 1995 leak was located in a diesel fuel dispenser. ARCADIS found documentation of this leak in a Subsurface Soil Investigation report from Kaprealian Engineering dated February 27, 1996 and in correspondence from the Department of Environmental health dated march 25, 1996. These documents are provided in **Appendix A** and have been uploaded to the ACEH FTP site.

In 2005, a baseline site assessment was performed by TRC. TPH concentrations were detected in two soil samples, and MTBE concentrations were detected in two soil samples and three grab groundwater samples. Soil and groundwater

concentrations resulted in the case being reopened. The Baseline Site Assessment Report by TRC, dated March 8, 2005, is provided in **Appendix A** and has been uploaded to the ACEH FTP site.

## Conclusions

Based on the Focused CSM, the site continues to meet the Low Threat Closure Policy Class 2 criteria for groundwater. Class 2 criteria are outlined below.

*2a. The contaminant plume that exceeds ESLs is less than 250 feet in length*

For the determination of the classification of groundwater impacts, the length of the plume exceeding ESLs for each of the current site contaminants of potential concern was measured from the most recent isoconcentration maps included as **Figures 4a through 7b**.

- The TPH-d plume, exceeding 100 µg/L in the shallow groundwater zone, is estimated to be approximately 132 feet long.
- The TPH-d plume, exceeding 100 µg/L in the deep groundwater zone, is estimated to be approximately 190 feet long.
- The MTBE plume, exceeding 5 µg/L in the shallow groundwater zone, is estimated to be approximately 70 feet long.
- The MTBE plume, exceeding 5 µg/L in the deep groundwater zone, is estimated to be approximately 10 feet long.

*2b. There is no free product*

- There is no free product historically detected or currently present in site monitoring wells, as detailed in the Conceptual Site Model and Request for Low-Threat Closure Report (CSM).

*2c. The nearest existing water supply well or surface-water body is greater than 1,000 feet from the defined plume boundary*

- As described in the CSM and depicted on **Figure 8**, no water supply wells were identified within 1,000 feet from the defined plume boundary at site.
- The nearest surface-water bodies are an unidentified canal located approximately 1,425 feet east of the site and South Reservoir located approximately 1,950 feet southeast of the site. The canal is lined and not hydraulically connected to groundwater.

*2d. The dissolved concentration of benzene is less than 3,000 µg/L, and the dissolved concentration of MTBE is less than 1,000 µg/L*

During the grab groundwater monitoring events in 2005 and 2007, benzene was not detected above the reporting limit in any of the grab groundwater samples collected. MTBE was detected at a maximum concentration of 87 µg/L (SB-1 in 2005). Thus, concentrations of benzene and MTBE are well below the 3,000 and 1,000 µg/L criteria, respectively.

If you have any questions, please contact Katherine Brandt at 510.596.9675.

Sincerely,

ARCADIS



Katherine Brandt  
Certified Project Manager

Copies:

Ms. Jillian Holloway, Union Oil (electronic copy only)  
Netaj LLC, Property Owners

Attachments:

Table 1: Jiffy Lube Monitoring Well Details

Figure 1: Site Location Map

Figure 2: Site Layout Map

Figure 3: Soil Sample Locations and Excavation Areas

Figure 4a: TPH-d Isoconcentration Map Shallow Groundwater Zone

Figure 4b: TPH-d Isoconcentration Map Deep Groundwater Zone

Figure 5: TPH-g Isoconcentration Map Shallow Groundwater Zone

Figure 6: TBA Isoconcentration Map Shallow Groundwater Zone

Figure 7a: MTBE Isoconcentration Map Shallow Groundwater Zone

Figure 7b: MTBE Isoconcentration Map Deep Groundwater Zone

Figure 8: Research-Based MTBE Plume Migration Analysis

Figure 9: Depth to Bedrock

Figure 10: Groundwater Flow Directions

Appendix A: Release History Documents

Appendix B: CPT-1 and CPT-4 TPH-DRO Chromatograms

Appendix C: Unidentified Canal Photo Log

Appendix D: Jiffy Lube Analytical Data



**Tables**

Table 1 - Jiffy Lube Monitoring Well Details

Location	Date Drilled	Date Destroyed	TD (ft)	Water Level (ft bgs)	Depth to Bedrock (ft bgs)	Casing Material	Screened Interval (ft bgs)	Screen Material	Screen Slot Size (in)	Filter Pack
MW-1	6/24/2004	1/20/2011	20	7.6	> 20	2" ID, Sch. 40 PVC	5 - 20	2" ID, Sch. 40 PVC	0.010	#2/12 sand filter pack, 4.5'-20'
MW-2	6/25/2004	1/20/2011	20	11.75	> 16.5	2" ID, Sch. 40 PVC	5 - 20	2" ID, Sch. 40 PVC	0.010	#2/12 sand filter pack, 4.5'-20'
MW-3	6/25/2004	1/20/2011	20	19.2	> 15	2" ID, Sch. 40 PVC	5 - 20	2" ID, Sch. 40 PVC	0.010	#2/12 sand filter pack, 4.5'-20'
MW-4	6/24/2004	1/20/2011	15	6.5	> 7.2	2" ID, Sch. 40 PVC	4 - 14	2" ID, Sch. 40 PVC	0.010	#2/12 sand filter pack, 3.5'-15'
MW-5	1/30/2009	1/20/2011	15	14.36	13 *	2" ID, Sch. 40 PVC	4 - 15	2" ID, Sch. 40 PVC	0.010	#2/12 sand filter pack, 4'-15'

Notes:

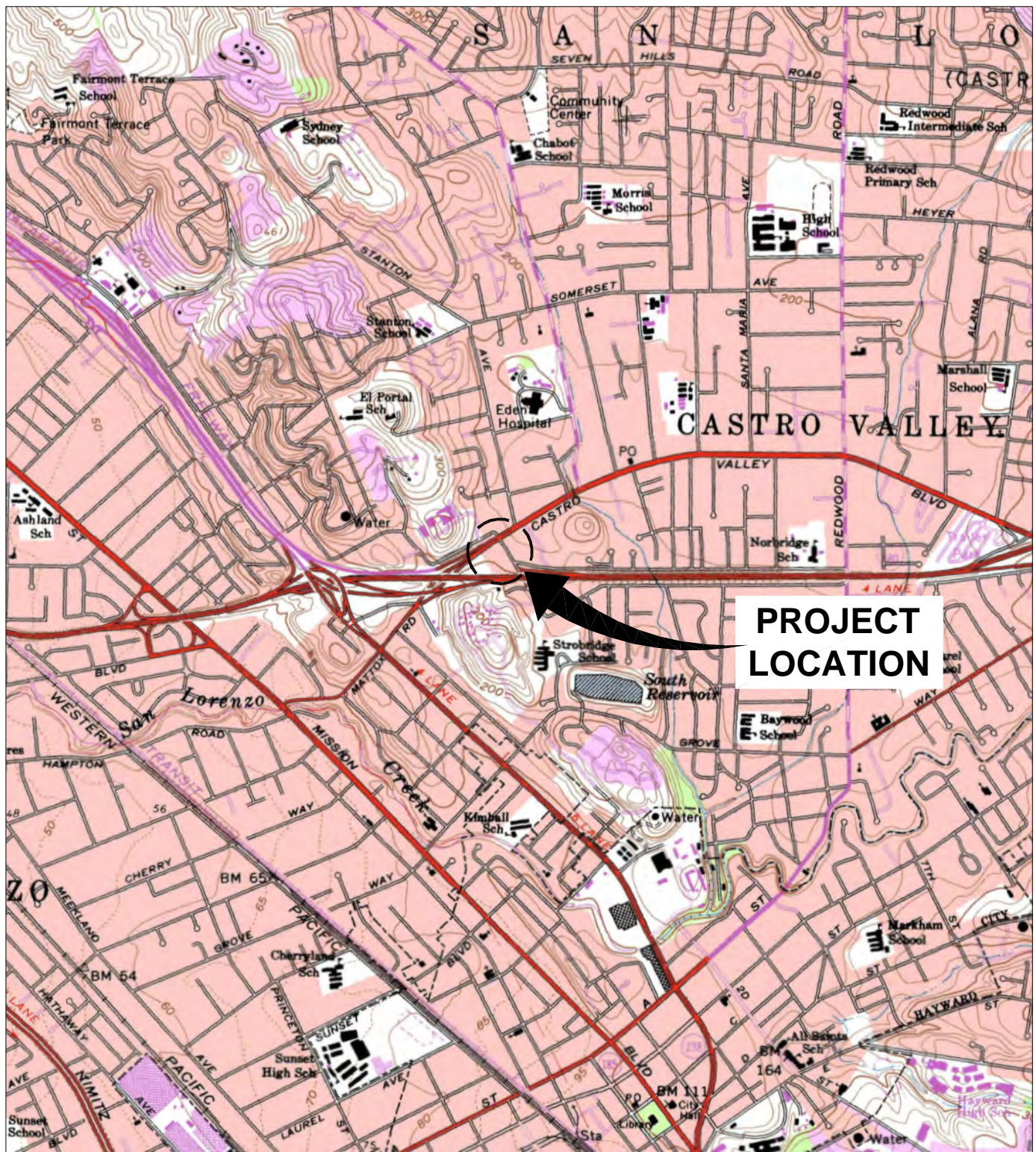
- \* Claystone Encountered at 13 ft bgs
- TD Total Depth
- ID Inner Diameter
- ft Feet
- bgs Below ground Surface
- in Inches



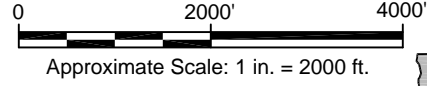


**Figures**

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UNION OIL  
 STATION NO. 3072  
 2445 CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CALIFORNIA

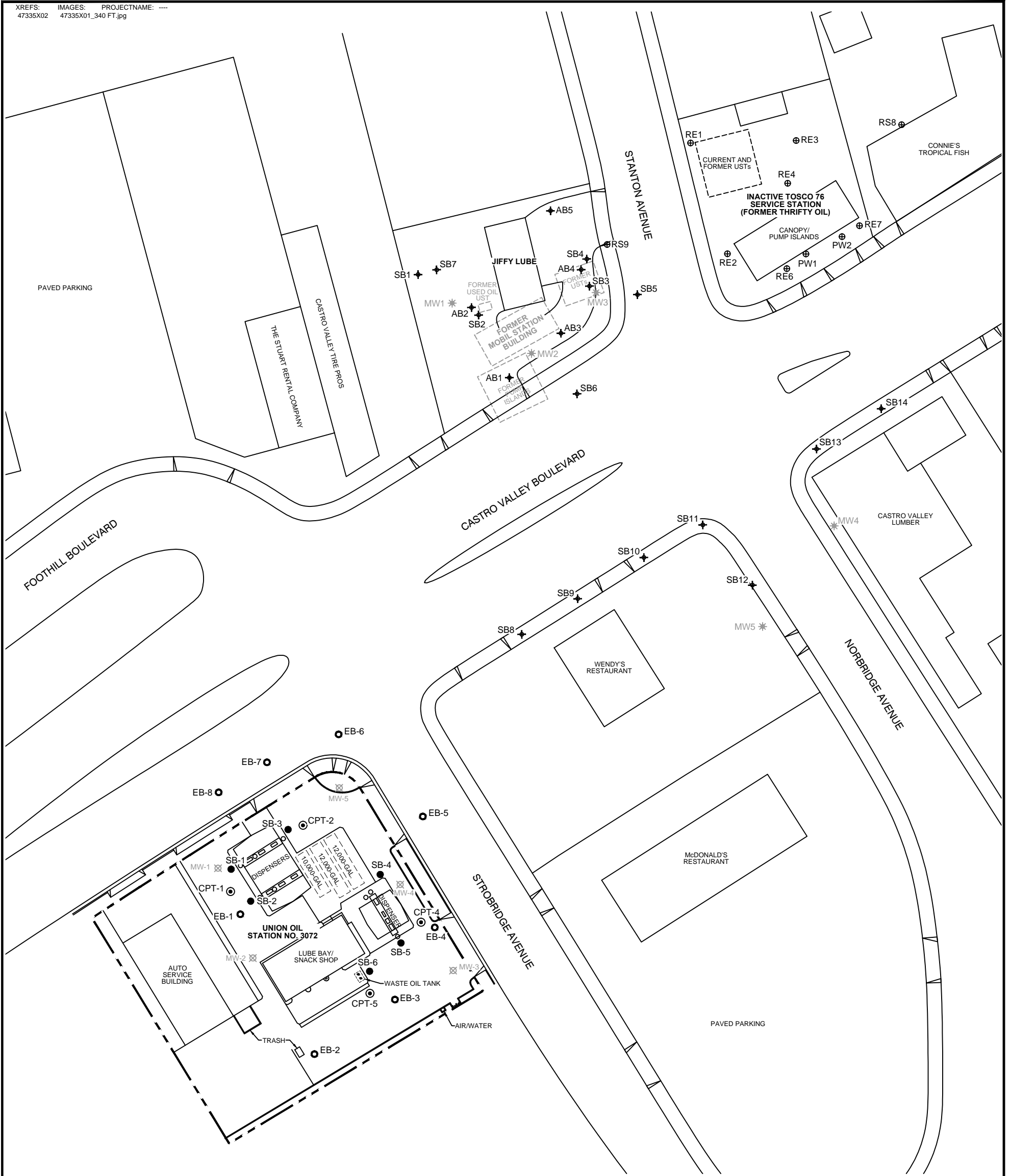
**SITE LOCATION MAP**



FIGURE  
**1**



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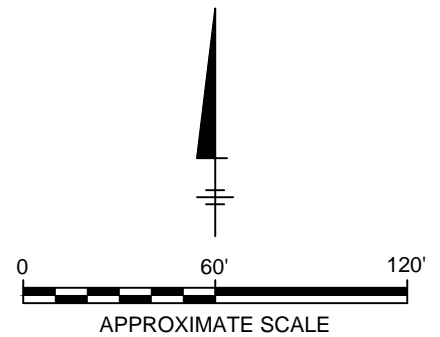


NOTES:

1. BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 01/14/09, AT A SCALE OF 1"=30'. OFF-SITE FEATURES DIGITIZED FROM A FIGURE PDF PROVIDED BY ETIC ENGINEERING, DATED 10/15/07, AT A SCALE OF 1"=40', AND FROM AERIAL IMAGE PROVIDED BY GOOGLE™ EARTH, IMAGE DATE 8/28/12.
2. ALL MAP FEATURES AND LOCATIONS ARE APPROXIMATE.

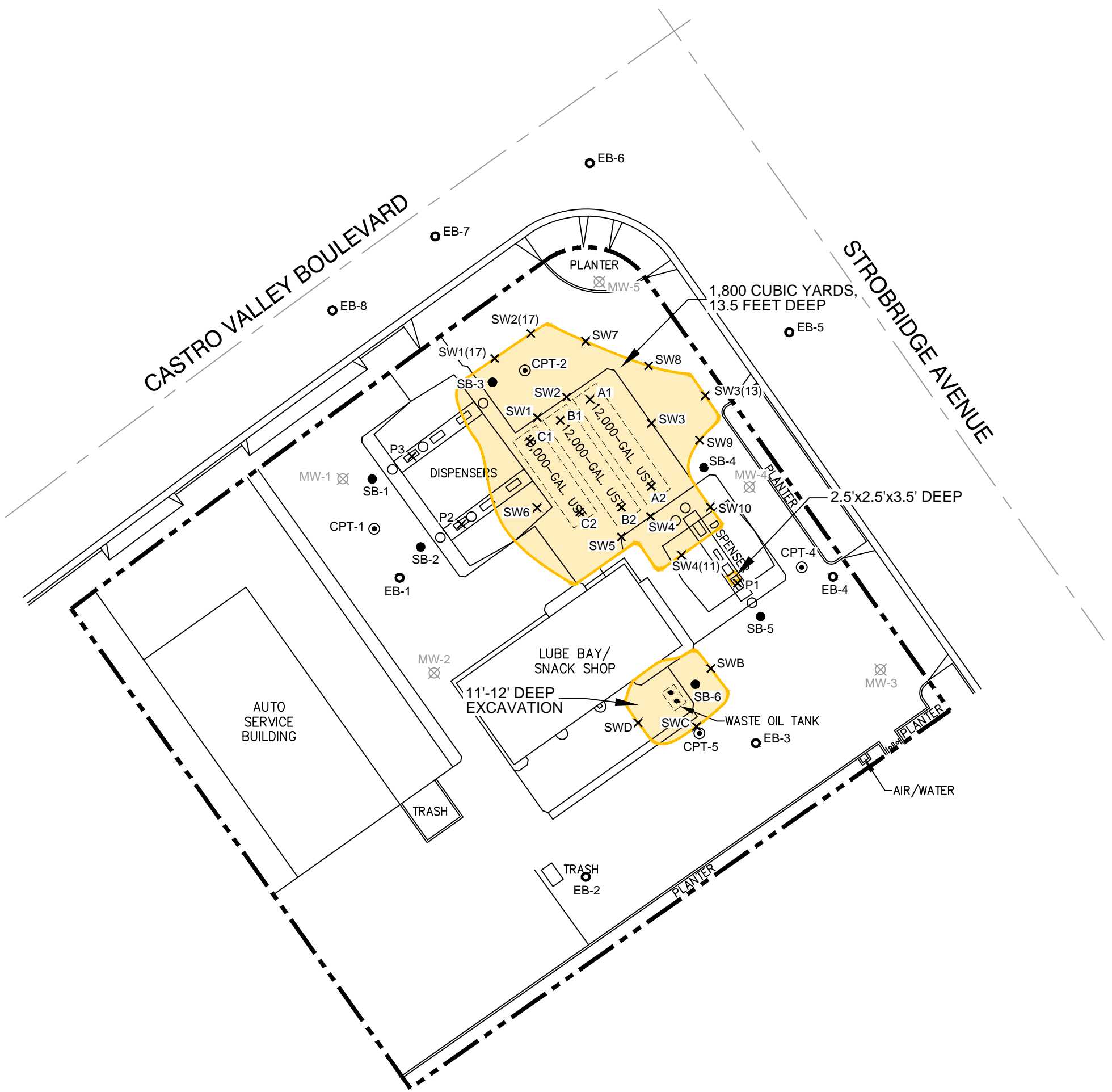
LEGEND

- SITE BOUNDARY
- MW-1 ☒ DESTROYED MONITORING WELL
- SB-1 ● SOIL BORING
- CPT-1 ⊙ CPT BORING
- EB-1 ● EXPLORATORY BORING (KAPREALIAN 1990)
- SB1 † SOIL BORING (FORMER MOBIL STATION)
- RS9 ⊕ GROUNDWATER MONITORING WELL (FORMER THRIFTY OIL STATION)
- MW1 \* DESTROYED GROUNDWATER MONITORING WELL (FORMER MOBIL STATION)



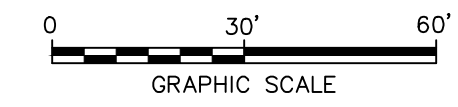
UNION OIL STATION NO. 3072 2445 CASTRO VALLEY BOULEVARD CASTRO VALLEY, CALIFORNIA	
<b>SITE LAYOUT MAP</b>	
	FIGURE <b>2</b>

CITY: SAN RAFAEL, CA (PETALUMA) DIV/GROUP: ENV/CAD DB: J. HARRIS  
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- LEGEND**
- PROPERTY BOUNDARY
  - MW-1 ☒ DESTROYED MONITORING WELL
  - SB-1 ● SOIL BORING
  - CPT-1 ⊙ CPT BORING
  - EB-1 ⊙ EXPLORATORY BORING (KAPREALIAN 1990)
  - SW1 × SAMPLE POINT (KAPREALIAN 1990)
  - EXCAVATION AREA

- NOTES:**
1. BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 01/14/09, AT A SCALE OF 1"=30'.
  2. ALL SITE FEATURES AND LOCATIONS ARE APPROXIMATE.



UNION OIL STATION NO. 3072 2445 CASTRO VALLEY BOULEVARD CASTRO VALLEY, CALIFORNIA	
<b>SOIL SAMPLE LOCATIONS AND EXCAVATION AREAS</b>	
	FIGURE <b>3</b>

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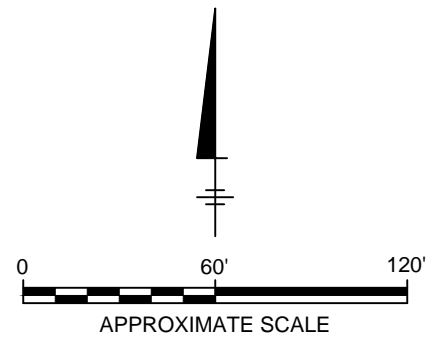


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2. ALL MAP FEATURES AND LOCATIONS ARE APPROXIMATE.
3. 2007 GROUNDWATER SAMPLES COLLECTED AS GRAB GROUNDWATER IN MAY.

LEGEND

- SITE BOUNDARY
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- MW1 \* DESTROYED GROUNDWATER MONITORING WELL (FORMER MOBIL STATION)
- 100 --- TOTAL PETROLEUM HYDROCARBONS AS DIESEL (TPH-d) ESL ISOCONCENTRATION CONTOURS, DASHED WHERE INFERRED. CONTOURS BASED ON 2005 AND 2007 DATA ONLY.
- 280 (2007) TPH-d CONCENTRATION IN MICROGRAMS PER LITER (YEAR ANALYZED)
- ND NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
- ESL ENVIRONMENTAL SCREENING LEVEL WHERE GROUNDWATER IS A CURRENT OR POTENTIAL SOURCE OF DRINKING WATER, TABLE F-1a, FINAL GROUNDWATER SCREENING LEVEL, SAN FRANCISCO REGIONAL WATER QUALITY CONTROL BOARD, DECEMBER 2013



UNION OIL  
 STATION NO. 3072  
 2445 CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CALIFORNIA

**TPH-d ISOCONCENTRATION MAP  
 SHALLOW GROUNDWATER ZONE**

**ARCADIS**

FIGURE  
**4a**



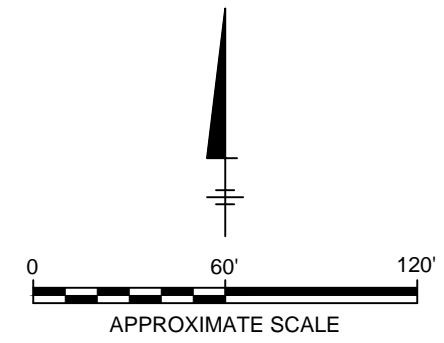
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- 490 (2007) TPH-d CONCENTRATION IN MICROGRAMS PER LITER (YEAR ANALYZED)
- ND NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
- ESL ENVIRONMENTAL SCREENING LEVEL WHERE GROUNDWATER IS A CURRENT OR POTENTIAL SOURCE OF DRINKING WATER, TABLE F-1a, FINAL GROUNDWATER SCREENING LEVEL, SAN FRANCISCO REGIONAL WATER QUALITY CONTROL BOARD, DECEMBER 2013



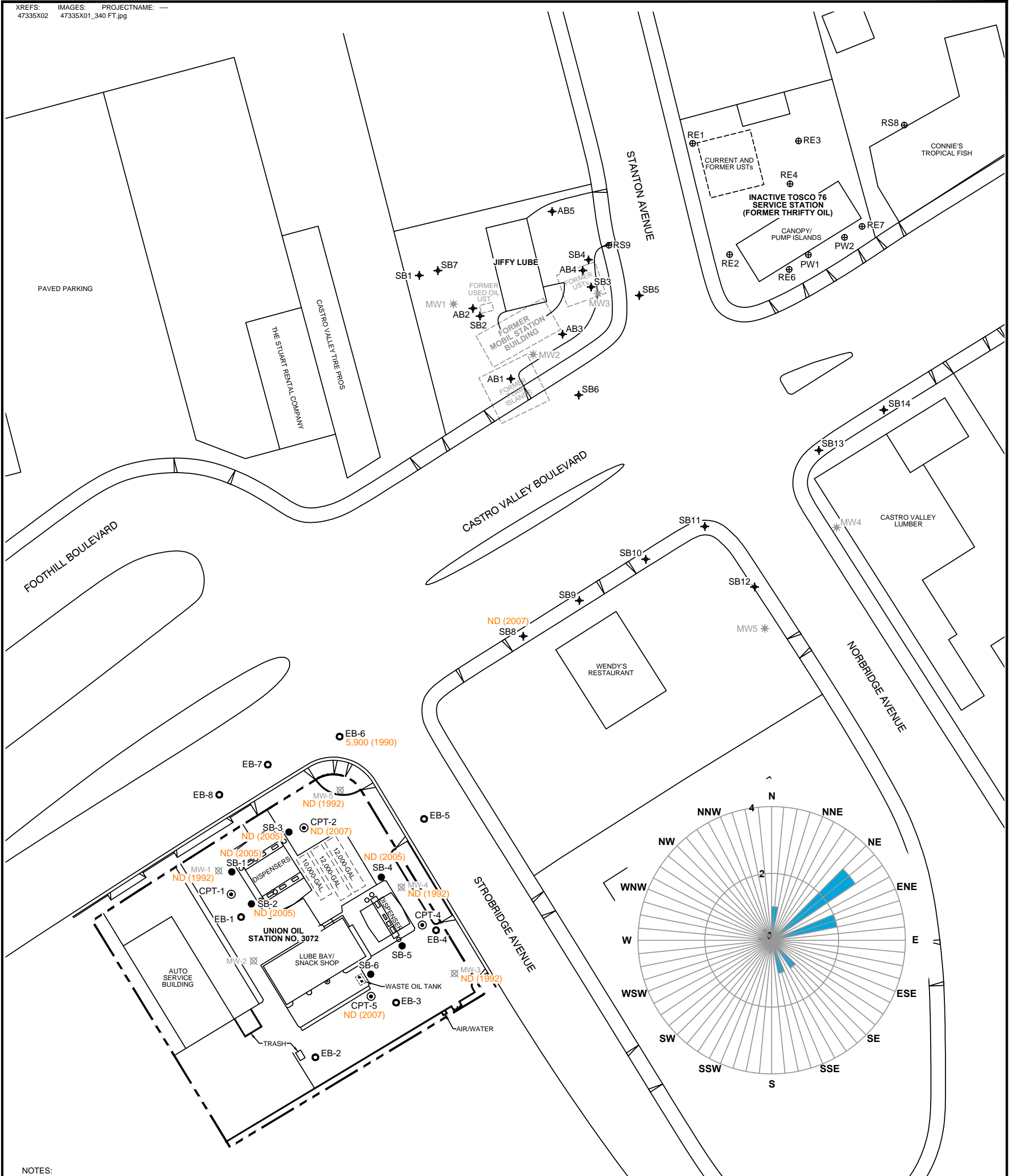
UNION OIL  
 STATION NO. 3072  
 2445 CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CALIFORNIA

**TPH-d ISOCONCENTRATION MAP  
 DEEP GROUNDWATER ZONE**

**ARCADIS**

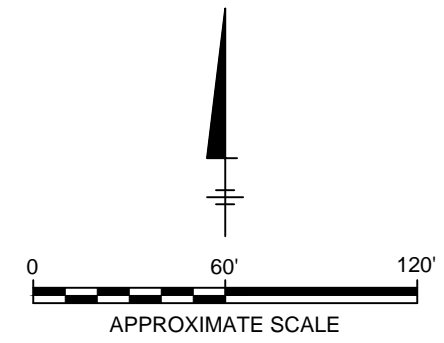
FIGURE  
**4b**

XREFS: IMAGES: PROJECTNAME: ---  
 47335X02 47335X01\_340 FT.jpg



- NOTES:
1. BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 01/14/09, AT A SCALE OF 1"=30'. OFF-SITE FEATURES DIGITIZED FROM A FIGURE PDF PROVIDED BY ETIC ENGINEERING, DATED 10/15/07, AT A SCALE OF 1"=40', AND FROM AERIAL IMAGE PROVIDED BY GOOGLE™ EARTH, IMAGE DATE 8/28/12.
  2. ALL MAP FEATURES AND LOCATIONS ARE APPROXIMATE.
  3. 2007 GROUNDWATER SAMPLES COLLECTED AS GRAB GROUNDWATER IN MAY.

LEGEND	
---	SITE BOUNDARY
MW-1 ☒	DESTROYED MONITORING WELL
SB-1 ●	SOIL BORING
CPT-1 ⊙	CPT BORING
EB-1 ⊙	EXPLORATORY BORING (KAPREALIAN 1990)
SB1 †	SOIL BORING (FORMER MOBIL STATION)
RS9 ⊕	GROUNDWATER MONITORING WELL (FORMER THRIFTY OIL STATION)
MW1 *	DESTROYED GROUNDWATER MONITORING WELL (FORMER MOBIL STATION)
5,900 (1990)	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (TPH-g) CONCENTRATION IN MICROGRAMS PER LITER (YEAR ANALYZED)
ND	NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
ESL	ENVIRONMENTAL SCREENING LEVEL WHERE GROUNDWATER IS A CURRENT OR POTENTIAL SOURCE OF DRINKING WATER, TABLE F-1a, FINAL GROUNDWATER SCREENING LEVEL, SAN FRANCISCO REGIONAL WATER QUALITY CONTROL BOARD, DECEMBER 2013



UNION OIL  
 STATION NO. 3072  
 2445 CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CALIFORNIA

**TPH-g ISOCONCENTRATION MAP  
 SHALLOW GROUNDWATER ZONE**

**ARCADIS**

FIGURE  
**5**

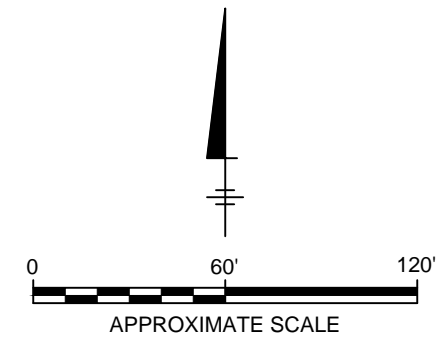
XREFS: IMAGES: PROJECTNAME: ---  
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- NOTES:
1. BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 01/14/09, AT A SCALE OF 1"=30'. OFF-SITE FEATURES DIGITIZED FROM A FIGURE PDF PROVIDED BY ETIC ENGINEERING, DATED 10/15/07, AT A SCALE OF 1"=40', AND FROM AERIAL IMAGE PROVIDED BY GOOGLE™ EARTH, IMAGE DATE 8/28/12.
  2. ALL MAP FEATURES AND LOCATIONS ARE APPROXIMATE.
  3. 2007 GROUNDWATER SAMPLES COLLECTED AS GRAB GROUNDWATER IN MAY.

LEGEND

- SITE BOUNDARY
- MW-1 ☒ DESTROYED MONITORING WELL
- SB-1 ● SOIL BORING
- CPT-1 ⊙ CPT BORING
- EB-1 ⊙ EXPLORATORY BORING (KAPREALIAN 1990)
- SB1 † SOIL BORING (FORMER MOBIL STATION)
- RS9 ⊕ GROUNDWATER MONITORING WELL (FORMER THRIFTY OIL STATION)
- MW1 \* DESTROYED GROUNDWATER MONITORING WELL (FORMER MOBIL STATION)
- 12 --- TERT-BUTYL ALCOHOL (TBA) ESL ISOCONCENTRATION CONTOURS, DASHED WHERE INFERRED. CONTOURS BASED ON 2005 AND 2007 DATA ONLY.
- 54 (2007) TBA CONCENTRATION IN MICROGRAMS PER LITER (YEAR ANALYZED)
- ND NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
- ESL ENVIRONMENTAL SCREENING LEVEL WHERE GROUNDWATER IS A CURRENT OR POTENTIAL SOURCE OF DRINKING WATER, TABLE F-1a, FINAL GROUNDWATER SCREENING LEVEL, SAN FRANCISCO REGIONAL WATER QUALITY CONTROL BOARD, DECEMBER 2013



UNION OIL  
 STATION NO. 3072  
 2445 CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CALIFORNIA

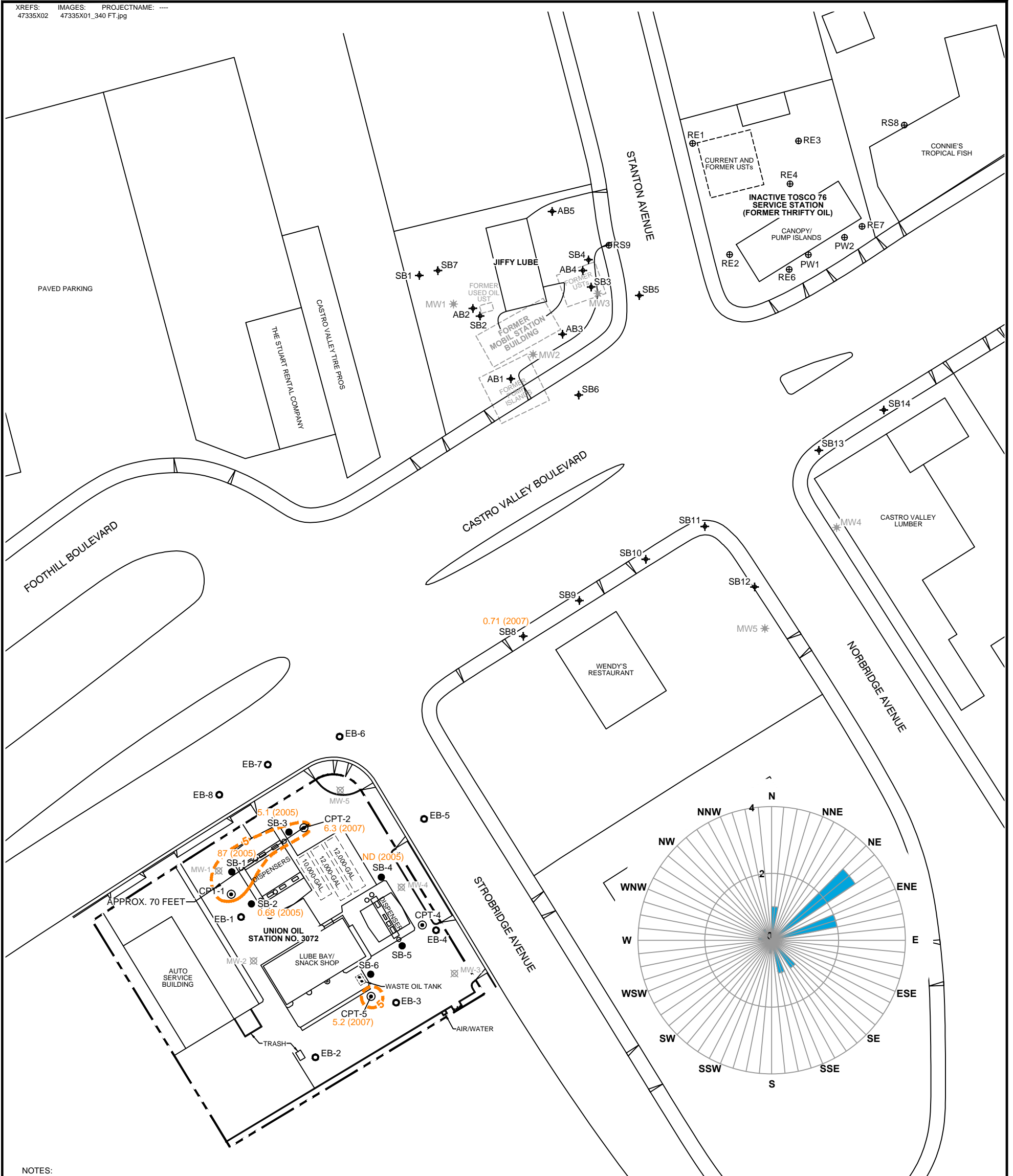
**TBA ISOCONCENTRATION MAP  
 SHALLOW GROUNDWATER ZONE**

**ARCADIS**

FIGURE  
**6**

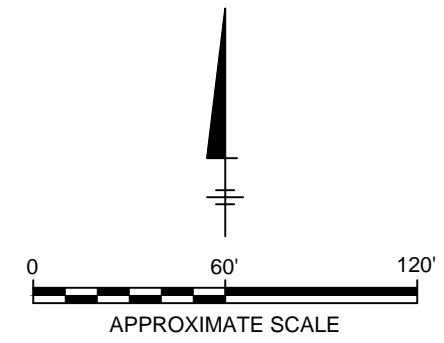


XREFS: IMAGES: PROJECTNAME: ---  
 47335X02 47335X01\_340 FT.jpg



- NOTES:
1. BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 01/14/09, AT A SCALE OF 1"=30'. OFF-SITE FEATURES DIGITIZED FROM A FIGURE PDF PROVIDED BY ETIC ENGINEERING, DATED 10/15/07, AT A SCALE OF 1"=40', AND FROM AERIAL IMAGE PROVIDED BY GOOGLE™ EARTH, IMAGE DATE 8/28/12.
  2. ALL MAP FEATURES AND LOCATIONS ARE APPROXIMATE.
  3. 2007 GROUNDWATER SAMPLES COLLECTED AS GRAB GROUNDWATER IN MAY.

LEGEND	
	SITE BOUNDARY
	DESTROYED MONITORING WELL
	SOIL BORING
	CPT BORING
	EXPLORATORY BORING (KAPREALIAN 1990)
	SOIL BORING (FORMER MOBIL STATION)
	GROUNDWATER MONITORING WELL (FORMER THRIFTY OIL STATION)
	DESTROYED GROUNDWATER MONITORING WELL (FORMER MOBIL STATION)
	METHYL TERTIARY BUTYL ETHER (MTBE) ESL ISOCONCENTRATION CONTOURS, DASHED WHERE INFERRED
	MTBE CONCENTRATION IN MICROGRAMS PER LITER (YEAR ANALYZED)
	NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
	ENVIRONMENTAL SCREENING LEVEL WHERE GROUNDWATER IS A CURRENT OR POTENTIAL SOURCE OF DRINKING WATER, TABLE F-1a, FINAL GROUNDWATER SCREENING LEVEL, SAN FRANCISCO REGIONAL WATER QUALITY CONTROL BOARD, DECEMBER 2013



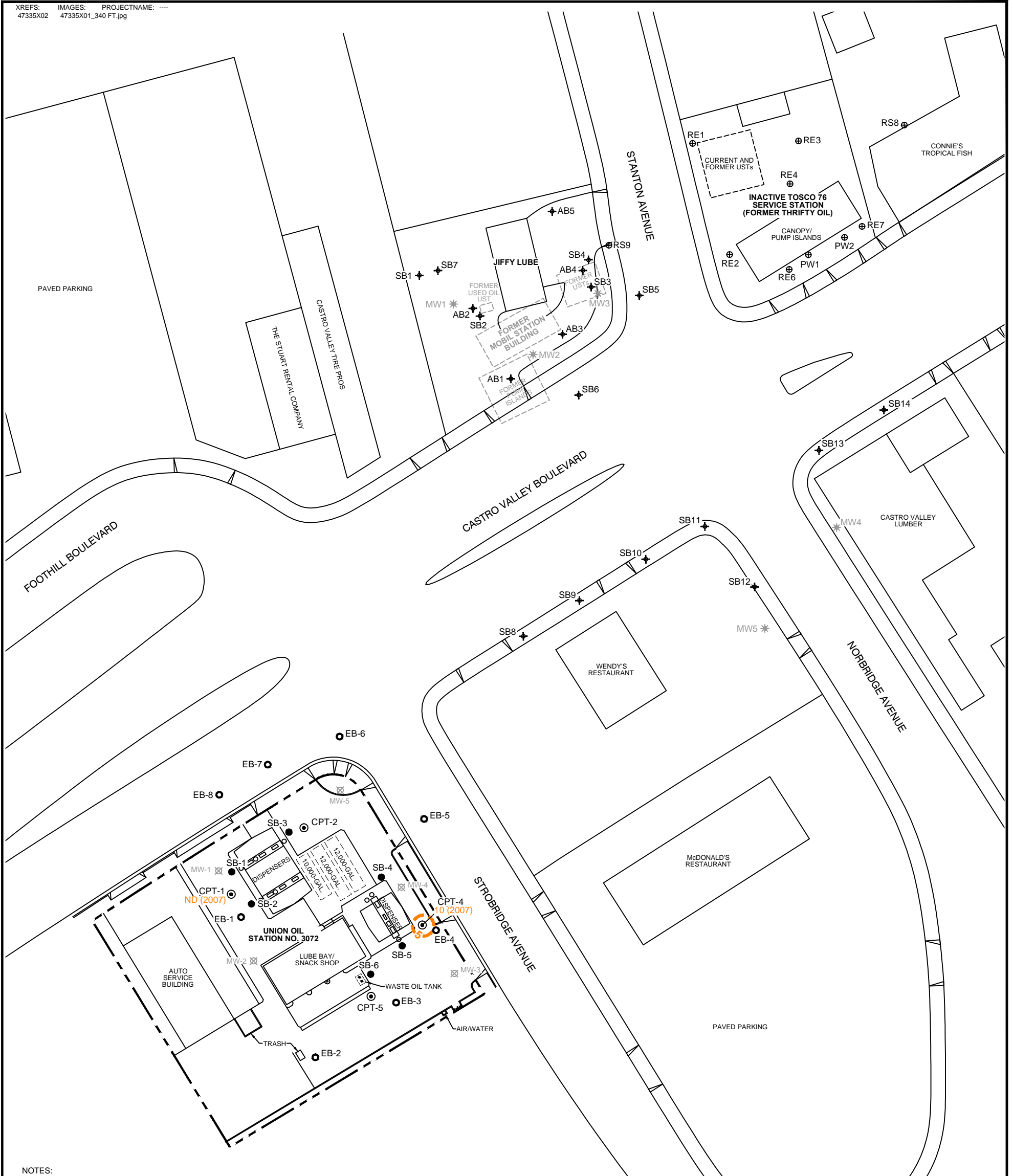
UNION OIL  
 STATION NO. 3072  
 2445 CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CALIFORNIA

**MTBE ISOCONCENTRATION MAP  
 SHALLOW GROUNDWATER ZONE**

**ARCADIS**

FIGURE  
**7a**

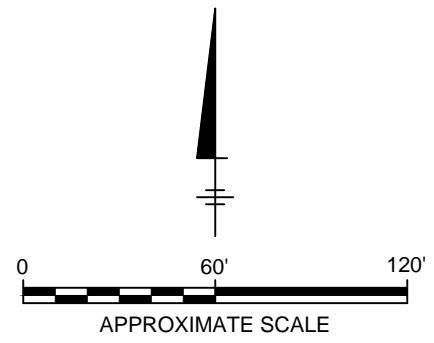
XREFS: IMAGES: PROJECTNAME: ---  
 47335X02 47335X01\_340 FT.jpg



- NOTES:
1. BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 01/14/09, AT A SCALE OF 1"=30'. OFF-SITE FEATURES DIGITIZED FROM A FIGURE PDF PROVIDED BY ETIC ENGINEERING, DATED 10/15/07, AT A SCALE OF 1"=40', AND FROM AERIAL IMAGE PROVIDED BY GOOGLE™ EARTH, IMAGE DATE 8/28/12.
  2. ALL MAP FEATURES AND LOCATIONS ARE APPROXIMATE.
  3. 2007 GROUNDWATER SAMPLES COLLECTED AS GRAB GROUNDWATER IN MAY.

LEGEND

- SITE BOUNDARY
- MW-1 ☒ DESTROYED MONITORING WELL
- SB-1 ● SOIL BORING
- CPT-1 ⊙ CPT BORING
- EB-1 ⊙ EXPLORATORY BORING (KAPREALIAN 1990)
- SB1 † SOIL BORING (FORMER MOBIL STATION)
- RS9 ⊕ GROUNDWATER MONITORING WELL (FORMER THRIFTY OIL STATION)
- MW1 \* DESTROYED GROUNDWATER MONITORING WELL (FORMER MOBIL STATION)
- 5 - - - METHYL TERTIARY BUTYL ETHER (MTBE) ESL ISOCONCENTRATION CONTOURS, DASHED WHERE INFERRED
- 10 (2007) MTBE CONCENTRATION IN MICROGRAMS PER LITER (YEAR ANALYZED)
- ND NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT
- ESL ENVIRONMENTAL SCREENING LEVEL WHERE GROUNDWATER IS A CURRENT OR POTENTIAL SOURCE OF DRINKING WATER, TABLE F-1a, FINAL GROUNDWATER SCREENING LEVEL, SAN FRANCISCO REGIONAL WATER QUALITY CONTROL BOARD, DECEMBER 2013



UNION OIL  
 STATION NO. 3072  
 2445 CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CALIFORNIA

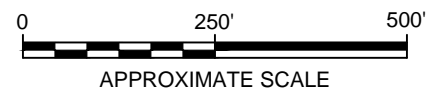
**MTBE ISOCONCENTRATION MAP  
 DEEP GROUNDWATER ZONE**

**ARCADIS**

FIGURE  
**7b**



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 47335X01\_340 FT.jpg



LEGEND

- - - SITE BOUNDARY
- DOMESTIC WELL
- COOLING SYSTEM RETURN
- SOURCE AREA
- MTBE METHYL TERTIARY BUTYL ETHER

- NOTES:
1. AERIAL IMAGE PROVIDED BY GOOGLE™ EARTH, IMAGE DATE 8/28/12.
  2. ALL MAP FEATURES AND LOCATIONS ARE APPROXIMATE.
  3. REFERENCE FOR PLUME LENGTH: STATE WATER RESOURCES CONTROL BOARD, 2012, TECHNICAL JUSTIFICATION FOR GROUNDWATER MEDIA-SPECIFIC CRITERIA. APRIL 24.

UNION OIL  
 STATION NO. 3072  
 2445 CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CALIFORNIA

**RESEARCH-BASED MTBE PLUME  
 MIGRATION ANALYSIS**





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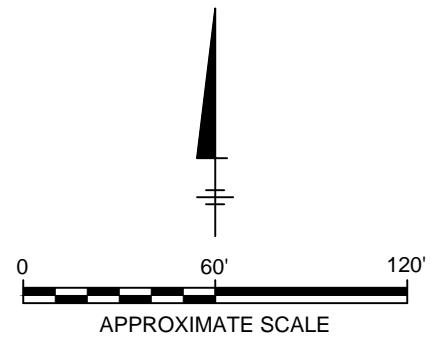


NOTES:

1. BASE MAP DIGITIZED FROM A FIGURE PDF PROVIDED BY DELTA, DATED 01/14/09, AT A SCALE OF 1"=30'. OFF-SITE FEATURES DIGITIZED FROM A FIGURE PDF PROVIDED BY ETIC ENGINEERING, DATED 10/15/07, AT A SCALE OF 1"=40', AND FROM AERIAL IMAGE PROVIDED BY GOOGLE™ EARTH, IMAGE DATE 8/28/12.
2. ALL MAP FEATURES AND LOCATIONS ARE APPROXIMATE.

LEGEND

- SITE BOUNDARY
- MW-1 ☒ DESTROYED MONITORING WELL
- SB-1 ● SOIL BORING
- CPT-1 ⊙ CPT BORING
- EB-1 ● EXPLORATORY BORING (KAPREALIAN 1990)
- SB1 † SOIL BORING (FORMER MOBIL STATION)
- RS9 ⊕ GROUNDWATER MONITORING WELL (FORMER THRIFTY OIL STATION)
- MW1 \* DESTROYED GROUNDWATER MONITORING WELL (FORMER MOBIL STATION)
- (5) APPROXIMATE DEPTH TO BEDROCK FROM HISTORICAL BORING LOGS (FT BGS)
- FT BGS FEET BELOW GROUND SURFACE
- \* CLAYSTONE ENCOUNTERED AT THIS DEPTH, BEDROCK NOT INDICATED ON BORING LOG



UNION OIL  
 STATION NO. 3072  
 2445 CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CALIFORNIA

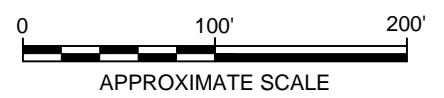
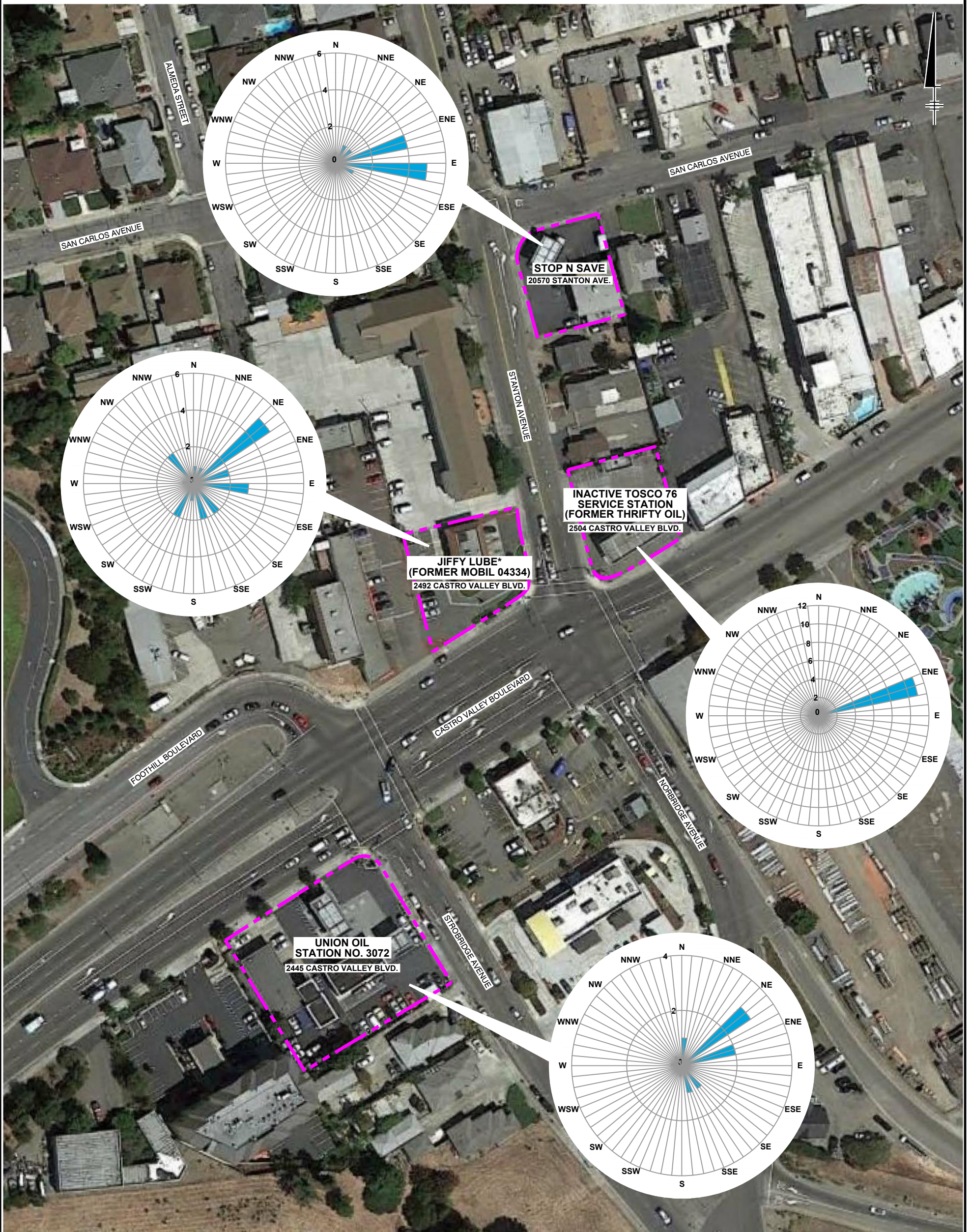
**DEPTH TO BEDROCK MAP**

**ARCADIS**

FIGURE  
**9**



XREFS: IMAGES: PROJECTNAME: ---  
 47335X02 47335X01\_560 FT.jpg  
 47335X01\_340 FT.jpg



**LEGEND**

--- PROPERTY BOUNDARY

\* JIFFY LUBE MONITORING WELLS OFTEN HAD MINIMAL WATER OR WERE DRY. GROUNDWATER FLOW DIRECTIONS MAY NOT BE REPRESENTATIVE OF AMBIENT GROUNDWATER FLOWS.

**NOTES:**

1. AERIAL IMAGE PROVIDED BY GOOGLE™ EARTH, IMAGE DATE 8/28/12.
2. ALL MAP FEATURES AND LOCATIONS ARE APPROXIMATE.

UNION OIL  
 STATION NO. 3072  
 2445 CASTRO VALLEY BOULEVARD  
 CASTRO VALLEY, CALIFORNIA

**GROUNDWATER FLOW DIRECTIONS**







**Appendix A**

KEI

KAPREALIAN ENGINEERING  
INCORPORATED

KEI-P89-1106.R13  
February 27, 1996

Unocal Corporation  
2000 Crow Canyon Place, Suite 400  
P.O. Box 5155  
San Ramon, California 94583

Attention: Ms. Tina Berry

RE: Subsurface Soil Investigation at  
Unocal Service Station #3072  
2445 Castro Valley Boulevard  
Castro Valley, California

FILE #	<u>3072</u>	SS	<input checked="" type="checkbox"/>	BP	<input type="checkbox"/>
RPT	<input checked="" type="checkbox"/>	QW	<input type="checkbox"/>	TRANSMITTAL	<input type="checkbox"/>
1	<input type="checkbox"/>	2	<input type="checkbox"/>	3	<input type="checkbox"/>
4	<input type="checkbox"/>	5	<input type="checkbox"/>	6	<input type="checkbox"/>

Dear Ms. Berry:

Per the request of Unocal Corporation, on February 8, 1996, Kaprealian Engineering, Inc. (KEI) conducted a limited subsurface soil investigation at the referenced site. This investigation was conducted in order to characterize the subsurface soil conditions in the area beneath the diesel dispenser located in the pump island next to Strobridge Avenue. The investigation was requested by Unocal because of diesel dispenser weep that was reported in one of the connections in the diesel dispenser system. The leaking connection in the diesel dispenser system has been repaired and following the repair, the system was monitored daily for several weeks without showing any apparent sign of leakage.

Soil excavation was scheduled to be performed in the area beneath the diesel dispenser in order to remove as much of the hydrocarbon-impacted soil as possible. On February 8, 1996, an area of approximately 2.5 feet by 2.5 feet was excavated beneath the diesel dispenser to a depth of about 3.5 feet below grade. Mr. Don Atkinson-Adams of the Alameda County Health Care Services (ACHCS) Agency was present during excavation and inspection activities. The subsurface soils exposed beneath the dispenser consisted of pea gravel fill. Obvious diesel-impacted fill material was observed immediately beneath the dispenser and to a depth of about one foot below grade.

One composite soil sample, labeled Comp D, was collected from the excavated pea gravel. The composite sample consisted of two individual grab samples collected by the use of a driven tube-type soil sampler. The individual samples were placed in clean two-inch diameter brass tubes and then sealed with Teflon-lined plastic caps. The tubes were then labeled and stored in a cooled ice chest for subsequent delivery to a certified laboratory for analysis.

Following the removal of approximately one cubic yard of pea gravel, one sample, labeled D(3.5), was collected at a depth of about 3.5 feet below grade. This sample was also collected and handled as described above. Based on the field inspection performed in the sidewalls and the bottom of the excavation (2.5 feet by 2.5 feet and to a depth of 3.5 feet below grade), the amount of diesel-impacted soil remaining appeared to be negligible. The excavation beneath the diesel dispenser was backfilled with clean, imported pea gravel by the contractor, Gettler-Ryan, Inc. of Dublin, California. The sample point location and the excavated area are shown on the attached Figure 1.

The soil sample collected from the excavated pea gravel was analyzed for total petroleum hydrocarbons (TPH) as diesel by EPA method 3550/modified 8015, and for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8020. The sample collected from the bottom of the excavation was analyzed for TPH as diesel. The results of the soil analyses are summarized in Table 1. Copies of the laboratory analyses and Chain of Custody documentation are attached to this report.

The stockpiled pea gravel (approximately one cubic yard) represented by Comp D was profiled and approved for disposal at BFI Industrial Waste Services, an approved Class II/III treatment and disposal site, in Livermore, California. The stockpiled soil will soon be transported to the landfill in the near future.

#### DISCUSSION AND RECOMMENDATION

Based on field observations and the analytical results of the recent soil samples collected, it appears that the majority of the known hydrocarbon-impacted soil beneath the diesel dispenser has been excavated, sampled (as Comp D), and approved for disposal at BFI Landfill. The sample collected from the bottom of the excavation at a depth of about 3.5 feet below grade showed a concentration of TPH as diesel at 20 mg/kg. Therefore, it does not appear that the subsurface soils beneath the subject diesel dispenser contain significant hydrocarbon concentrations.

#### DISTRIBUTION

A copy of this report should be sent to Mr. Don Atkinson-Adams of the ACHCS, and to the Regional Water Quality Control Board, San Francisco Bay Region.



LIMITATIONS

Soil deposits and rock formations may vary in thickness, lithology, saturation, strength and other properties across any site. In addition, environmental changes, either naturally-occurring or artificially-induced, may cause changes in ground water levels and flow paths, thereby changing the extent and concentration of any contaminants. Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

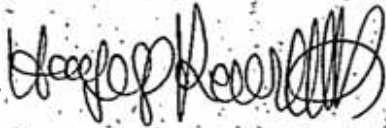
The results of this study are based on the data obtained from the field and laboratory analyses obtained from a state-certified laboratory. We have analyzed this data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, regarding the above, including laboratory analyses, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

KEI-P89-1106.R13  
February 27, 1996  
Page 4

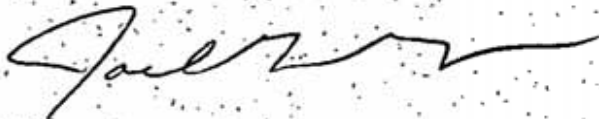
Should you have any questions on this report, please call our office at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

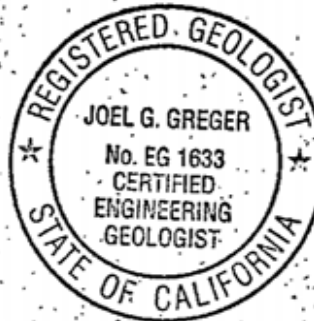


Hagop Kevork  
Staff Engineer



Joel G. Greger, C.E.G.  
Senior Engineering Geologist

License No. EG 1633  
Exp. Date 8/31/96



Timothy R. Ross  
General Manager

/jad

Attachments: Table 1  
Location Map  
Figure 1  
Laboratory Analyses  
Chain of Custody documentation

KEI-P89-1106.R13  
February 27, 1996

TABLE 1  
SUMMARY OF LABORATORY ANALYSES

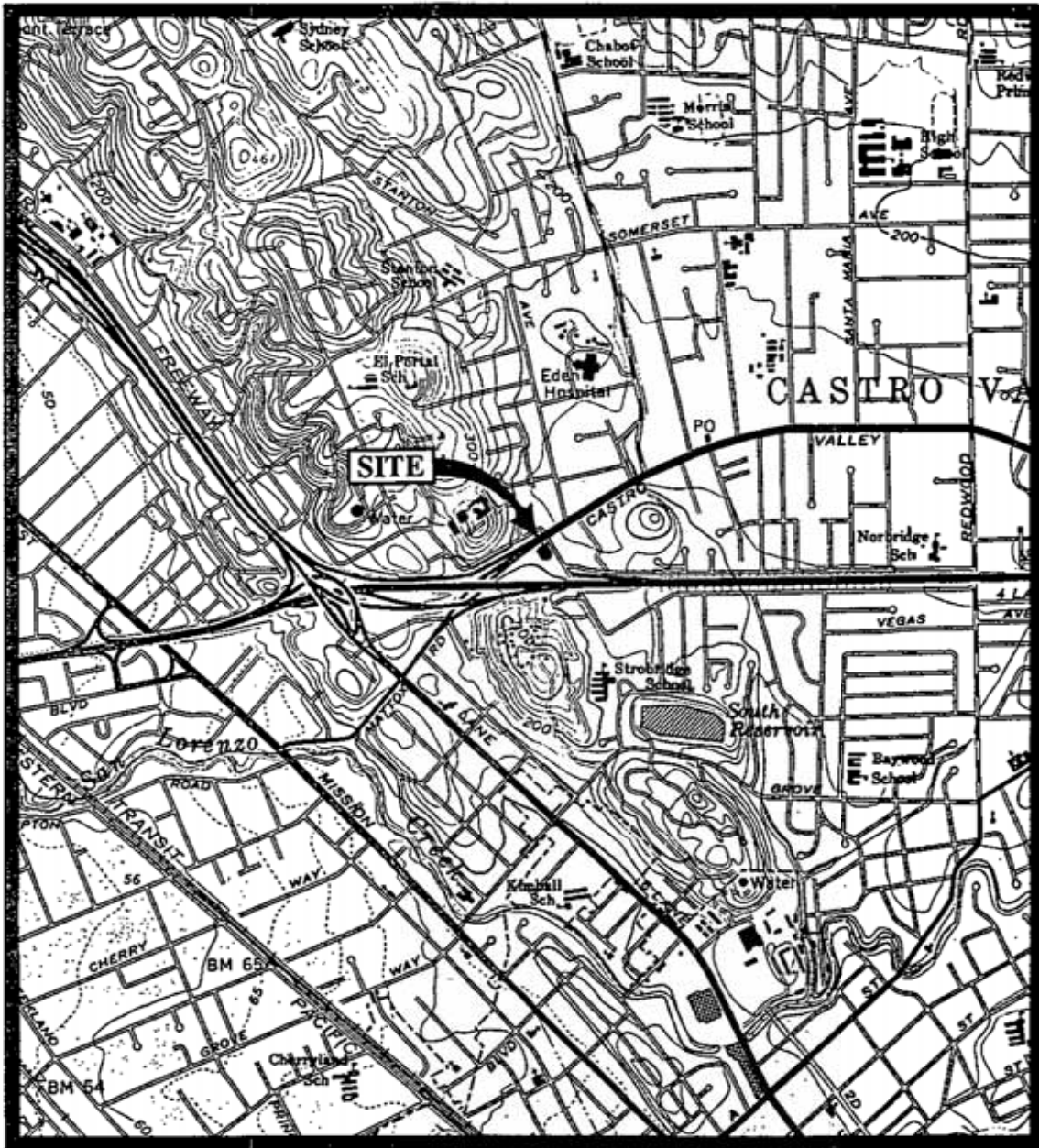
<u>Date</u>	<u>Sample</u>	<u>Depth (feet)</u>	<u>TPH as Diesel</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl- benzene</u>	<u>Xylenes</u>
2/08/96	Comp D	N/A	1,400	ND	ND	ND	ND
	D(3.5)	3.5	20	--	--	--	--

ND = Non-detectable.

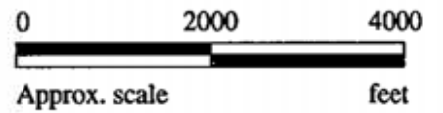
N/A = Not applicable (stockpiled soil).

-- Indicates analysis was not performed.

Results are in milligrams per kilogram (mg/kg), unless otherwise indicated.



Base modified from 7.5 minute U.S.G.S. Hayward Quadrangle  
(photorevised 1980)

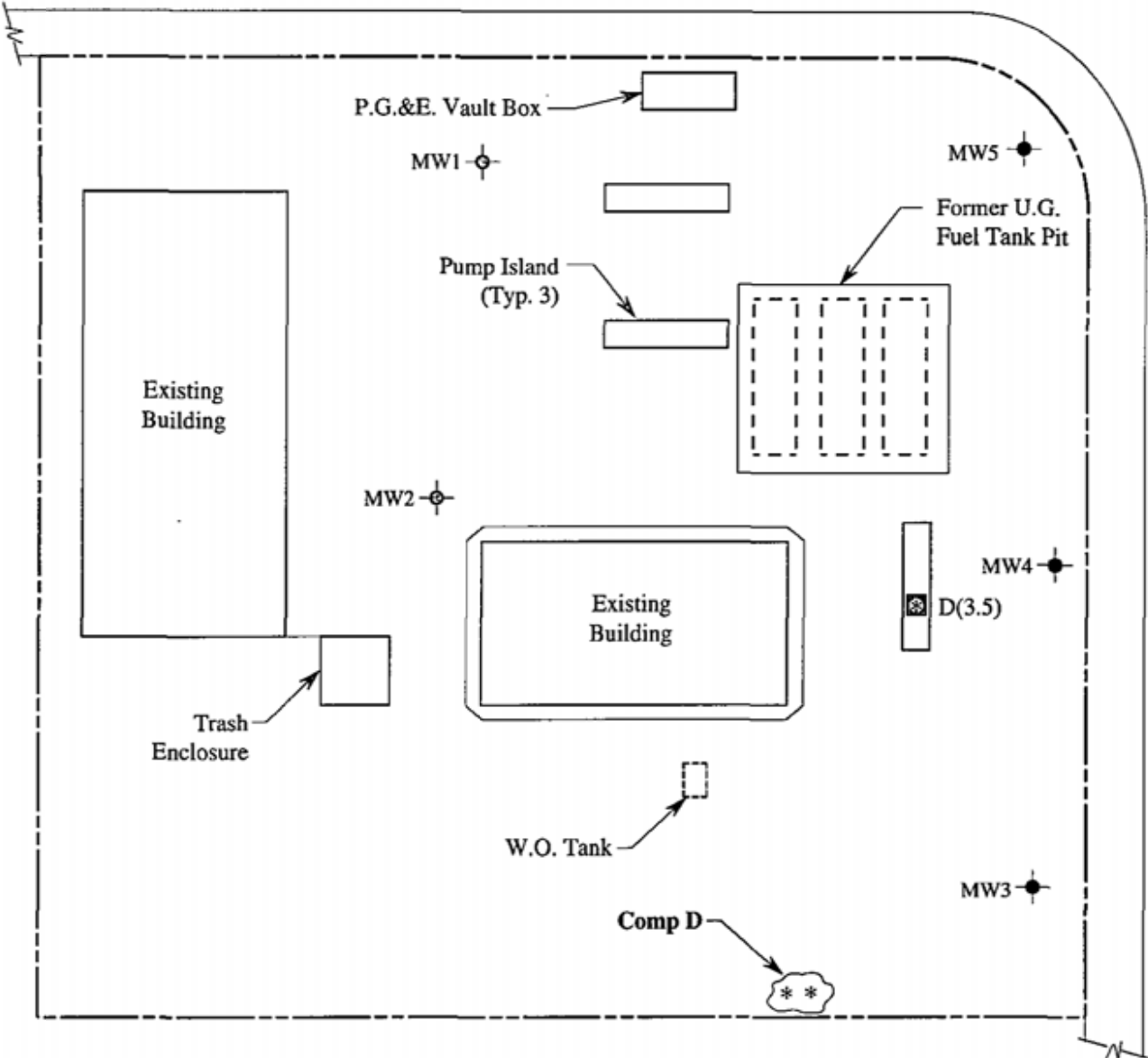


**KPE**  
**KAPREALIAN ENGINEERING  
 INCORPORATED**




**UNOCAL SERVICE STATION #3072  
 2445 CASTRO VALLEY BLVD.  
 CASTRO VALLEY, CALIFORNIA**

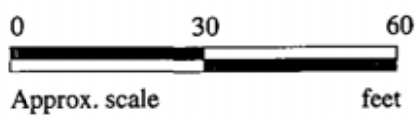
**LOCATION  
 MAP**

CASTRO VALLEY BOULEVARD



**LEGEND**

-  Former monitoring well (destroyed on 6/15/93)
-  Area beneath diesel dispenser excavated to a depth of 3.5 feet below grade
- \* Sample point location
-  Stockpiled soil (not to scale)



**SITE PLAN**



**UNOCAL SERVICE STATION #3072  
2445 CASTRO VALLEY BLVD.  
CASTRO VALLEY, CALIFORNIA**

**FIGURE  
1**



**Sequoia  
Analytical**

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8

Redwood City, CA 94065  
Walnut Creek, CA 94598  
Sacramento, CA 95834

(415) 364-9600  
(510) 988-9600  
(916) 921-9600

FAX (415) 364-9233  
FAX (510) 988-9673  
FAX (916) 921-0100

Kaprealian Engineering, Inc.  
2401 Stanwell Dr., Ste. 400  
Concord, CA 94520  
Attention: Dennis Royce

Client Project ID: Unocal #3072, 2445 Castro Valley Blvd.  
Sample Matrix: Soil Castro Valley  
Analysis Method: EPA 3550/8015 Mod.  
First Sample #: 602-0530

Sampled: Feb 8, 1996  
Received: Feb 8, 1996  
Reported: Feb 12, 1996

**TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS**

Analyte	Reporting Limit mg/kg	Sample I.D. 602-0530 Comp D
Extractable Hydrocarbons	1.0	1400

Chromatogram Pattern: Diesel

**Quality Control Data**

Report Limit Multiplication Factor:	1.0
Date Extracted:	2/8/96
Date Analyzed:	2/9/96
Instrument Identification:	HP-3A

Extractable Hydrocarbons are quantitated against a fresh diesel standard.  
Analytes reported as N.D. were not detected above the stated reporting limit.

**SEQUOIA ANALYTICAL, #1271**

  
Alan B. Kemp  
Project Manager





Kaprealian Engineering, Inc.  
2401 Stanwell Dr., Ste. 400  
Concord, CA 94520  
Attention: Dennis Royce

Client Project ID: Unocal #3072, 2445 Castro Valley Blvd., Castro Valley  
Matrix: Solid

QC Sample Group: 6020530

Reported: Feb 12, 1996

### QUALITY CONTROL DATA REPORT

<b>Analyte:</b>	Diesel
<b>QC Batch#:</b>	SP020896 8015EXA
<b>Analy. Method:</b>	EPA 8015
<b>Prep. Method:</b>	EPA 3550
<b>Analyst:</b>	J. Dinsay
<b>MS/MSD #:</b>	6020363
<b>Sample Conc.:</b>	28 mg/kg
<b>Prepared Date:</b>	2/8/96
<b>Analyzed Date:</b>	2/9/96
<b>Instrument I.D.#:</b>	HP-3A
<b>Conc. Spiked:</b>	10 mg/kg
<b>Result:</b>	35
<b>MS % Recovery:</b>	70
<b>Dup. Result:</b>	29
<b>MSD % Recov.:</b>	10
<b>RPD:</b>	19
<b>RPD Limit:</b>	0-50

<b>LCS #:</b>	LCS020896
<b>Prepared Date:</b>	2/8/96
<b>Analyzed Date:</b>	2/9/96
<b>Instrument I.D.#:</b>	HP-3A
<b>Conc. Spiked:</b>	10 mg/kg
<b>LCS Result:</b>	9.0
<b>LCS % Recov.:</b>	90

<b>MS/MSD</b>	
<b>LCS</b>	50-150
<b>Control Limits</b>	

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

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

**SEQUOIA ANALYTICAL, #1271**

Alan B. Kemp  
Project Manager





- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
- 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9800
- 509 Corporate Drive • Redmond, OR 97053 • (503) 754-9200
- 819 Striker Ave., Suite B • Spokane, WA 99206 • (509) 924-9200

Company Name: KEI  
 Address: 2401 STANWELL DR. # 400  
 City: CONCORD State: CA Zip Code: 94520  
 Telephone: 602-5100 FAX #: 687-0602 Site #: 3072 - 2445 CASTRO VALLEY BLVD.  
 Report To: KEI Sampler: HAIG KEVORK  
 Turnaround:  10 Work Days  5 Work Days  3 Work Days  2 Work Days  1 Work Day  2-8 Hours  
 CODE:  Misc.  Detect.  Eval.  Remed.  Demol.  Closure  Other  
 Drinking Water  Waste Water  Other  
 Project Name: UNOCAL # 3072-CASTRO VALLEY  
 UNOCAL Project Manager: TINA BERRY  
 City: CONCORD State: CA Zip Code: 94520  
 Telephone: 602-5100 FAX #: 687-0602 Site #: 3072 - 2445 CASTRO VALLEY BLVD.  
 Report To: KEI Sampler: HAIG KEVORK  
 Turnaround:  10 Work Days  5 Work Days  3 Work Days  2 Work Days  1 Work Day  2-8 Hours  
 CODE:  Misc.  Detect.  Eval.  Remed.  Demol.  Closure  Other  
 Drinking Water  Waste Water  Other  
 Project Name: UNOCAL # 3072-CASTRO VALLEY  
 UNOCAL Project Manager: TINA BERRY  
 City: CONCORD State: CA Zip Code: 94520  
 Telephone: 602-5100 FAX #: 687-0602 Site #: 3072 - 2445 CASTRO VALLEY BLVD.  
 Report To: KEI Sampler: HAIG KEVORK  
 Turnaround:  10 Work Days  5 Work Days  3 Work Days  2 Work Days  1 Work Day  2-8 Hours  
 CODE:  Misc.  Detect.  Eval.  Remed.  Demol.  Closure  Other  
 Drinking Water  Waste Water  Other

Analyses Requested  
 TPH-D  
 Comments

Client Sample I.D.	Date/Time Sampled	Matrix	# of Cont.	Cont. Type	Laboratory Sample #	Comments
1. COMP D	2/8/96	SOIL	2	TUBE	6020530	

Relinquished By: *[Signature]* Date: 2/8/96 Time: 1:00  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

To be completed upon receipt of report:  
 1) Were the analyses requested on the Chain of Custody reported?  Yes  No If no, what analyses are still needed?  
 2) Was the report issued within the requested turnaround time?  Yes  No If no, what was the turnaround time?  
 Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_

White - Labora  
 Yellow - Laboratory  
 Pink - Client

Were Samples Received in Good Condition?  Yes  No  
 Samples on Ice?  Yes  No  
 Method of Shipment \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_





**Sequoia  
Analytical**

580 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8

Redwood City, CA 94061  
Walnut Creek, CA 94598  
Sacramento, CA 95834

(415) 364-9600  
(510) 988-9600  
(916) 921-9600

FAX (415) 364-9233  
FAX (510) 988-9673  
FAX (916) 921-0100

Kaprealian Engineering, Inc.  
2401 Stanwell Dr., Ste. 400  
Concord, CA 94520  
Attention: Dennis Royce

Client Project ID: Unocal #3072, 2445 Castro Valley Blvd.  
Sample Matrix: Soil  
Analysis Method: EPA 5030/8020  
First Sample #: 602-0530

Sampled: Feb 8, 1996  
Relogged: Feb 12, 1996  
Reported: Feb 15, 1996

**BTEX DISTINCTION**

Analyte	Reporting Limit mg/kg	Sample I.D. 602-0530 Comp D
Benzene	0.0050	N.D.
Toluene	0.0050	N.D.
Ethyl Benzene	0.0050	N.D.
Total Xylenes	0.0050	N.D.

**Quality Control Data**

Report Limit Multiplication Factor:	50
Date Analyzed:	2/13/96
Instrument Identification:	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	86

Analytes reported as N.D. were not detected above the stated reporting limit.

**SEQUOIA ANALYTICAL, #1271**

  
Alan B. Kemp  
Project Manager





# Sequoia Analytical

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8

Redwood City, CA 94063  
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FAX (916) 921-0100

Kaprealian Engineering, Inc.  
2401 Stanwell Dr., Ste. 400  
Concord, CA 94520  
Attention: Dennis Royce

Client Project ID: Unocal #3072, 2445 Castro Valley Blvd., Castro Valley  
Matrix: Solid

QC Sample Group: 602-0530

Reported: Feb 15, 1996

## QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	K. Nill	K. Nill	K. Nill	K. Nill

MS/MSD Batch#:	6020149	6020149	6020149	6020149
Date Prepared:	2/13/96	2/13/96	2/13/96	2/13/96
Date Analyzed:	2/13/96	2/13/96	2/13/96	2/13/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg
Matrix Spike % Recovery:	97	95	97	100
Matrix Spike Duplicate % Recovery:	100	97	97	100
Relative % Difference:	2.5	2.6	0.0	0.0

LCS Batch#:	5LCS021396	5LCS021396	5LCS021396	5LCS021396
Date Prepared:	2/13/96	2/13/96	2/13/96	2/13/96
Date Analyzed:	2/13/96	2/13/96	2/13/96	2/13/96
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5
LCS % Recovery:	100	95	100	100

% Recovery Control Limits:	55-145	47-149	47-155	56-140
----------------------------	--------	--------	--------	--------

SEQUOIA ANALYTICAL, #1271

  
Alan B. Kemp  
Project Manager

**Please Note:**

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



SEQUOIA ANALYTICAL/UNOCAL RELOG SHEET

CLIENT: KEI DATE RELOG: 2/12/96  
 PROJECT ID: Unocal #3072, Castro Valley DATE DUE: 2/15/96  
 PROJ. MANAGER: Alan Kemp DATE SAMP: 2/8/96  
 DATE REC'D: 2/8/96 MATRIX: Soil T.A.T. 72h

**PREVIOUSLY LOGGED SAMPLES**

TAT Change status to: 72h  
 Change status as of Day: 2/12/96 Time: 11:42 AM

9602181

CHANGE ANALYSES

Add Analyses   
 Cancel Analyses

Sequoia Project ID:	Analyses
9602135	
Sample Number	
6020530	BTEX <b>6020738 A, B</b>
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

**SAMPLES ON HOLD**

Add analyses

Sample Description	Analyses
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

E 12 03

TAT 0

Client Authorization (Person/Date/Time) Dennis 2/12/96 11:42 AM

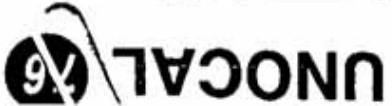
Project Manager: [Signature]

(Please submit to Sample Control with a copy of the COC & log-in sheets)

To be completed upon receipt of report:

1) Were the analyses requested on the Chain of Custody reported? Yes No If no, what analyses are still needed?  
 2) as the report issued within the requested turnaround time? Yes No If no, what was the turnaround time?

Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_



Company Name: KEI  
 Address: 2401 STANWELL DR. # 400  
 City: CONCORD State: CA Zip Code: 94520  
 Telephone: 602-5100 FAX #: 687-0602  
 Report To: KEI Sampler: HAIG KEVORK  
 Project Name: UNOCAL # 3072-CASTRO VALLEY  
 UNOCAL Project Manager: TINA BERRY  
 Release #: 9602181  
 Site #: 3072 - 2445 CASTRO VALLEY BLVD.  
 OC Data:  Level D (Standard)  Level C  Level B  Level A

Turnaround  10 Work Days  5 Work Days  3 Work Days  
 Time:  2 Work Days  1 Work Day  2-8 Hours  
 CODE:  Misc.  Detect.  Eval.  Remed.  Demol.  Closure  
 Drinking Water  Waste Water  Other

Client Sample I.D.	Date/Time Sampled	Matrix	# of Cont.	Cont. Type	Laboratory Sample #	Comments
1. Comp D	2/8/96	SOIL	2	TUBE	6020530 AS	
2.						
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

Relinquished By: <i>Steph Kevork</i>	Date: 2/8/96	Time: 1000	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	Date: 2/8/96	Time: 1000

Were Samples Received in Good Condition?  Yes  No  
 Samples on Ice?  Yes  No Method of Shipment: \_\_\_\_\_  
 Page \_\_\_\_\_ of \_\_\_\_\_  
 Approved by: \_\_\_\_\_ Signature: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_  
 To be completed upon receipt of report:  
 1) Were the analyses requested on the Chain of Custody reported?  Yes  No If no, what analyses are still needed?  
 2) Was the report issued within the requested turnaround time?  Yes  No If no, what was the turnaround time?

White - Laboratory

Yellow - Laboratory

Pink - Client



**Sequoia  
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FAX (510) 988-9673  
FAX (916) 921-0100

Kaprealian Engineering, Inc.  
2401 Stanwell Dr., Ste. 400  
Concord, CA 94520  
Attention: Dennis Royce

Client Project ID: Unocal #3072, 2445 Castro Valley Blvd.  
Sample Matrix: Soil Castro Valley  
Analysis Method: EPA 3550/8015 Mod.  
First Sample #: 602-0529

Sampled: Feb 8, 1996  
Received: Feb 8, 1996  
Reported: Feb 12, 1996

**TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS**

Analyte	Reporting Limit mg/kg	Sample I.D. 602-0529 D (3.5)
Extractable Hydrocarbons	1.0	20


Chromatogram Pattern: Diesel

**Quality Control Data**

Report Limit Multiplication Factor:	1.0
Date Extracted:	2/8/96
Date Analyzed:	2/9/96
Instrument Identification:	HP-3A

Extractable Hydrocarbons are quantitated against a fresh diesel standard.  
Analytes reported as N.D. were not detected above the stated reporting limit.

**SEQUOIA ANALYTICAL, #1271**

  
Alan B. Kemp  
Project Manager





Kaprealian Engineering, Inc.  
2401 Stanwell Dr., Ste. 400  
Concord, CA 94520  
Attention: Dennis Royce

Client Project ID: Unocal #3072, 2445 Castro Valley Blvd., Castro Valley  
Matrix: Solid

QC Sample Group: 6020529

Reported: Feb 12, 1996

**QUALITY CONTROL DATA REPORT**

<b>Analyte:</b>	Diesel
<b>QC Batch#:</b>	SP020896 8015EXA
<b>Analy. Method:</b>	EPA 8015
<b>Prep. Method:</b>	EPA 3550
<b>Analyst:</b>	J. Dinsay
<b>MS/MSD #:</b>	6020363
<b>Sample Conc.:</b>	28 mg/kg
<b>Prepared Date:</b>	2/8/96
<b>Analyzed Date:</b>	2/9/96
<b>Instrument I.D.#:</b>	HP-3A
<b>Conc. Spiked:</b>	10 mg/kg
<b>Result:</b>	35
<b>MS % Recovery:</b>	70
<b>Dup. Result:</b>	29
<b>MSD % Recov.:</b>	10
<b>RPD:</b>	19
<b>RPD Limit:</b>	0-50

<b>LCS #:</b>	LCS020896
<b>Prepared Date:</b>	2/8/96
<b>Analyzed Date:</b>	2/9/96
<b>Instrument I.D.#:</b>	HP-3A
<b>Conc. Spiked:</b>	10 mg/kg
<b>LCS Result:</b>	9.0
<b>LCS % Recov.:</b>	90

<b>MS/MSD LCS Control Limits</b>	50-150
--	--------

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

SEQUOIA ANALYTICAL, #1271

  
Alan B. Kemp  
Project Manager



- 660 Chesapeake Drive • Redwood City, CA 94063 • (415) 364-9600
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (510) 988-9600
- 18939 120th Ave., N.E., Suite 101 • Bothell, WA 98011 • (206) 481-9200
- 15055 S.W. Sequoia Pkwy, Suite 110 • Portland, OR 97222 • (503) 624-9600
- East 11115 Montgomery, Suite B • Spokane, WA 99206 • (509) 924-9200

Company Name: KEI  
 Address: 2401 STANWELL DR. # 400  
 UNOCAL Project Manager: TINA BERRY  
 Project Name: UNOCAL # 3072 - CASTRO VALLEY  
 Report To: KEI  
 Sampler: HAIG KEVORK  
 Telephone: 602-5100  
 FAX #: 687-0602  
 Site #: 3072 - 2445 CASTRO VALLEY BLVD,  
 City: CONCORD  
 State: CA  
 Zip code: 94520  
 Release #:  
 CC Data:  Level D (Standard)  Level C  Level B  Level A

Turnaround  10 Work Days  5 Work Days  3 Work Days  2 Work Days  1 Work Day  2-8 Hours  
 CODE:  Misc.  Detect.  Eval.  Remed.  Demol.  Closure  
 Other  
 Waste Water  
 Drinking Water

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Laboratory Sample #	Comments
D (3.5)	2/8/96	SOIL	1	TUBE	6020529	TPH-D

10						
9						
8						
7						
6						
5						
4						
3						
2						

Relinquished By: *[Signature]* Date: 2/8/96 Time: 1600  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Were Samples Received in Good Condition?  Yes  No  
 Samples on Ice?  Yes  No  
 Method of Shipment \_\_\_\_\_  
 Page \_\_\_\_ of \_\_\_\_

To be completed upon receipt of report:  
 1) Were the analyses requested on the Chain of Custody reported?  Yes  No  
 If no, what analyses are still needed?  
 2) Was the report issued within the requested turnaround time?  Yes  No  
 If no, what was the turnaround time?  
 \_\_\_\_\_

White - Laboratory  
 Yellow - Laboratory  
 Pink - Client

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RO# 1008

DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
(510) 567-6777

March 25, 1996

Unocal Corporation  
2000 Crow Canyon Place, Suite 400  
P.O.Box 5155  
San Ramon, CA 94583

Attention: Ms. Tina Berry

STID # 645

Subject: Site remediation for diesel dispenser leak at Unocal Station # 3072, 2445 Castro Valley Blvd., Castro Valley, CA 94546.

Reference: Report from KEI on cleanup activities on February 27, 1996.

Dear Ms. Berry:

This office was notified by Unocal of a leaking diesel dispenser at the above site. I visited the site and confirmed the leak. I also was at the site to witness the cleanup operation by KEI. As authorized by the County Board of Supervisors we may recover costs for program activities. This oversight activity exceeds the normal program costs covered by the annual fees and is being billed separately. Please remit a check for \$180.00 (2 hours charge at \$90/hr.) for remediation related work at the above site. [Site visit and report review] The check is to be payable to: County of Alameda.

I reviewed the KEI report and accept the findings and recommendations. No further action appears necessary at this time for the leak from the diesel dispenser.

Please call me at 510-567-6734 if you have any questions.

Sincerely,

Don Atkinson-Adams

cc: Bill Reynolds, East Area Manager  
Robert Weston, Senior Hazardous Materials Specialist





March 8, 2005

TRC Project No. 420187-01

ConocoPhillips  
P.O. Box 2197  
Houston, TX 77079-1175

ATTN: WILLIAM E. RODGERS, JR.  
  
SITE: 76 SERVICE STATION No. 3072  
2445 CASTRO VALLEY BLVD  
CASTRO VALLEY, CALIFORNIA  
  
RE: BASELINE SITE ASSESSMENT REPORT

Dear Mr. Rodgers:

On behalf of ConocoPhillips Company, TRC submits this Baseline Site Assessment Report summarizing sampling activities at the site referenced above. The contents of this report include:

Section 1	Summary Data
Section 2	Figures
Section 3	Tables
Section 4	General Field Procedures and Boring Logs
Section 5	Official Laboratory Reports

If you have any questions regarding this report, please call Keith Woodburne with TRC at (925) 688-2488.

Sincerely,

TRC

Rachelle Dunn  
Staff Geologist

Keith Woodburne, R.G.  
Senior Project Geologist



cc: Thomas Kosel (electronic copy)  
Bob Turrietta (3 copies)

## SECTION 1

## SUMMARY DATA

<b>SITE INFORMATION</b>	
<b>76 Service Station No. 3072</b> <b>2445 Castro Valley Blvd.</b> <b>Castro Valley, California</b>	TRC Project Number: 42018701
<b>SCOPE OF WORK</b>	
Advance 6 direct-push borings to assess the presence of hydrocarbon-affected soil and groundwater beneath the site. Collect grab groundwater samples from all soil borings.	Environmental Consultant: TRC Drilling Contractor and Rig: Woodward Drilling / Power Probe
<b>SITE OVERVIEW</b>	
Active service station with two 10,000-gallon gasoline USTs, one 10,000-gallon diesel UST, and one 550-gallon waste-oil UST, and three dispenser islands.	Groundwater was encountered at depths ranging from 15.0 to 49 fbg in 5 borings on January 24, 25, and 31, 2005.
<b>FIELD ACTIVITIES</b>	
USA Notification: January 18, 2005 Borings Drilled on: January 24, 25, and 31, 2005	Total Soil Samples Analyzed: 10 Grab Groundwater Samples Analyzed: 4
Boring Depths and Identifications: 25.5 fbg: Direct Push Boring SB-1 24.0 fbg: Direct Push Boring SB-2 18.0 fbg: Direct Push Boring SB-3 50.0 fbg: Direct Push Boring SB-4 23.0 fbg: Direct Push Boring SB-5 50.0 fbg: Direct Push Boring SB-6	Soil and groundwater sampling activities were conducted in accordance with the field procedures detailed in Section 4. All field activities performed under the purview of a registered professional.  The dates of sample collection are documented on the Chain of Custody records included in Section 5.
<b>LABORATORY ANALYSIS</b>	
Soil and groundwater samples were submitted to a state-certified laboratory for the analyses listed below.	
<u>Gasoline USTs and Dispensers:</u>	
<ul style="list-style-type: none"> <li>• TPPH using EPA Method 8260B.</li> <li>• BTEX, Oxygenates, and ethanol using EPA Method 8260B.</li> </ul>	
<u>Diesel UST and Diesel Dispenser:</u>	
<ul style="list-style-type: none"> <li>• TPH-D using EPA Method 8015.</li> </ul>	
<u>Waste Oil UST:</u>	
<ul style="list-style-type: none"> <li>• Oil and Grease (O&amp;G) using EPA Method 1664.</li> <li>• Total lead using EPA Method 6010.</li> </ul>	
<b>FINDINGS</b>	
<u>Lithology and Depth to Groundwater</u>	
Lithologies encountered beneath the site consist of mostly hard dry fine-grained sand and a minimal amount of silt and clay to the maximum depth investigated of 50.0 fbg. Groundwater was encountered at depths ranging from 15.0 to 49 fbg in 6 borings on January 24, 25, and 31, 2005.	
<u>Soil Results</u>	
The laboratory results for TPH-D, TPPH, BTEX, oxygenates, fuel additives, ethanol, total lead and O&G are listed in Section 3. Benzene, toluene, DIPE, ETBE, TAME, 1,2-DCA, EDB and ethanol were not detected in the eight soil samples analyzed from five borings adjacent to the gasoline USTs and dispensers. TPPH was detected in two soil samples at a maximum concentration of 480 mg/kg (SB-1 @ 8'). Ethylbenzene was detected in two soil samples at a maximum concentration of 1.1 mg/kg (SB-1 @ 8'). Total xylenes was detected in three soil samples at a maximum concentration of 1.1 mg/kg (SB-1 @ 8'). TBA was detected in two soil samples at a maximum concentration of 0.014 mg/kg (SB-2 @ 12'). MTBE was detected in two soil samples at a maximum concentration of 0.11 mg/kg (SB-3 @ 18'). O&G were detected in one of the two soil samples analyzed at a maximum concentration of 670 mg/kg (SB-6 @ 10'). Total lead was detected in both soil samples at a maximum concentration of 4.7 mg/kg (SB-6 @ 50').	

## SUMMARY DATA

### FINDINGS (CONT'D.)

TPH-D was detected in two of the three soil samples analyzed from three borings at a maximum of 25 mg/kg (SB-4 @ 8').

#### Groundwater Results

TPPH, benzene, toluene, TBA, DIPE, ETBE, TAME, 1,2-DCA, EDB and ethanol were not detected in the four grab groundwater samples. Ethylbenzene was detected in one of the four grab groundwater samples at a concentration of 0.77 µg/L (SB-1). Total xylenes was detected in one of the four grab groundwater samples at a concentration of 1.2 µg/L (SB-2). MTBE was detected in three of the four grab groundwater samples at a maximum concentration of 87 µg/L (SB-1).

### LIST OF ABBREVIATIONS

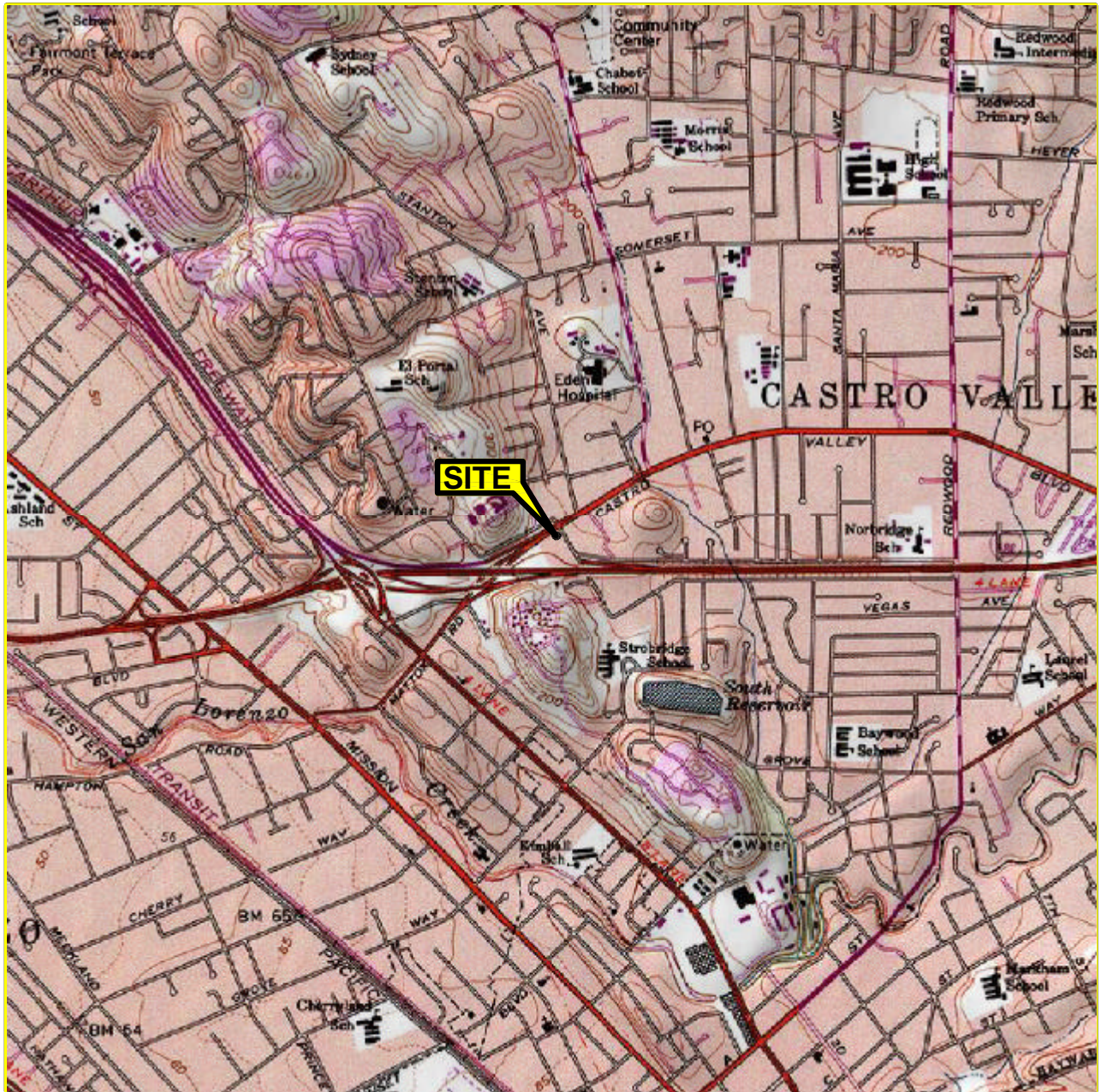
BAAQMD = Bay Area Air Quality Management District	MTBE = methyl tertiary butyl ether
BTEX = benzene, toluene, ethyl benzene and total xylenes	TAME = tertiary amyl methyl ether
TPPH = total purgeable petroleum hydrocarbons	TPH-D = total petroleum hydrocarbons as diesel
O&G = oil and grease (petroleum)	NA = not applicable
VOC = volatile organic compound	ND = not detected at laboratory detection limits indicated in official laboratory report
PCB = polychlorinated biphenyl	fbg = feet below grade
HSA = Hollow stem auger	gw = groundwater
TBA = tertiary butyl alcohol	gal = gallon
1,2-DCA = 1,2-dichloroethane	max = maximum
DIPE = di-isopropyl ether	mg/kg = milligrams per kilogram
EDB = ethylene dibromide	UST = Underground storage tank
ETBE = ethyl tertiary butyl ether	

### STATEMENT OF LIMITATIONS

The activities summarized in this report have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The findings and conclusions are based solely upon an analysis of observed conditions. If actual conditions differ from those described in this report, our office should be notified.

## SECTION 2





1 MILE 3/4 1/2 1/4 0 1 MILE



SCALE 1 : 24,000



**SOURCE:**

United States Geological Survey  
7.5 Minute Topographic Maps:  
Hayward Quadrangle  
California



**VICINITY MAP**

76 Service Station #3072  
2445 Castro Valley Boulevard  
Castro Valley, California

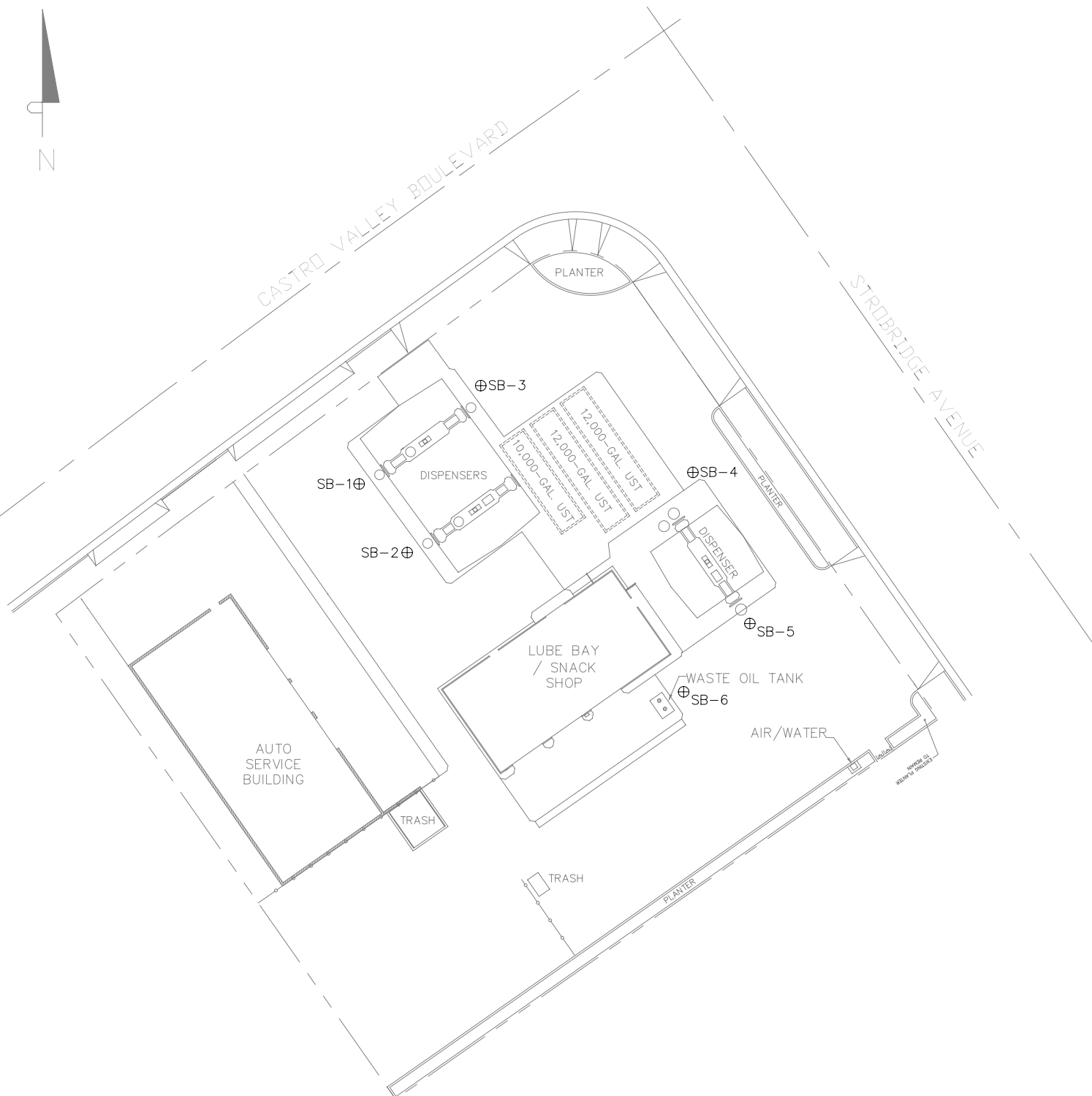


**FIGURE 1**



CASTRO VALLEY BOULEVARD

STROBRIDGE AVENUE



APPROXIMATE SCALE (FEET)



LEGEND

- Property Boundary
- o-o-o-o- Fence
- ⊕ SB-4 Soil Boring

**SITE PLAN**

76 Service Station #3072  
2445 Castro Valley Boulevard  
Castro Valley, California



**FIGURE 2**

SOURCE: Client-provided site plan prepared by A&S Engineering, October 1997.

## SECTION 3



Table 1

**RESULTS OF LABORATORY ANALYSIS OF SOIL SAMPLES**  
**76 Station # 3072**  
**2445 Castro Valley Blvd, Castro Valley, California**

Sample Number	Sample Date	Depth (fbg)	TPH-D	TPPH	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TBA	MTBE	DIPE	ETBE	TAME	1, 2-DCA	EDB	Ethanol	Total Lead	Oil & Grease
			(mg/kg) EPA 8015	(mg/kg) EPA 8260B	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
SB-1 @ 8'	1/24/2005	8.0	--	<b>480</b>	<0.50	<0.50	<b>1.1</b>	<b>1.1</b>	<2.5	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<25	--	--
SB-1 @ 25.5'	1/24/2005	25.5	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.013</b>	<b>0.074</b>	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--	--
SB-2 @ 12'	1/24/2005	12.0	--	<1.0	<0.0050	<0.0050	<b>0.043</b>	<b>0.021</b>	<b>0.014</b>	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--	--
SB-2 @ 24'	1/24/2005	24.0	--	<1.0	<0.0050	<0.0050	<0.0050	<b>0.011</b>	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--	--
SB-3 @ 18'	1/25/2005	18.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>0.11</b>	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--	--
SB-4 @ 8'	1/25/2005	8.0	<b>25</b>	<b>470</b>	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<25	--	--
SB-4 @ 50'	1/25/2005	50.0	--	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--	--
SB-5 @ 23'	1/31/2005	23.0	<b>2.1</b>	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	--	--
SB-6 @ 10'	1/31/2005	10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<b>3.4</b>	<b>670</b>
SB-6 @ 50'	1/31/2005	50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<b>4.7</b>	<50
Composite	1/25/2005	na	<b>5.0</b>	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	<b>7.5</b>	

Notes:

TPH-D	= total petroleum hydrocarbon as diesel	1,2 DCA	= 1,2-dichloroethane
TPPH	= total purgeable petroleum hydrocarbons	EDB	= ethylene dibromide
TBA	= tertiary butyl alcohol	fbg	= feet below grade
MTBE	= methyl tertiary butyl ether	mg/kg	= milligrams per kilogram
DIPE	= di-isopropyl ether	--	= not analyzed, measured, or collected
ETBE	= ethyl tertiary butyl ether	na	= not applicable
TAME	= tertiary amyl methyl ether		

Table 2

**RESULTS OF LABORATORY ANALYSIS OF GROUNDWATER SAMPLES**  
**76 Station # 3072**  
**2445 Castro Valley Blvd, Castro Valley, California**

Sample Number	Sample Date	Depth (fbg)	TPH-D	TPPH	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TBA	MTBE	DIPE	ETBE	TAME	1, 2-DCA	EDB	Ethanol	
			( $\mu\text{g/L}$ ) EPA 8015	( $\mu\text{g/L}$ ) EPA 8260B													EPA Method 8260B
SB-1	1/24/2005	na	--	<50	<0.50	<0.50	<b>0.77</b>	<1.0	<5.0	<b>87</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<50	
SB-2	1/24/2005	na	--	<50	<0.50	<0.50	<0.50	<b>1.2</b>	<5.0	<b>0.68</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<50	
SB-3	1/25/2005	na	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<b>5.1</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<50	
SB-4	1/25/2005	na	--	<50	<0.50	<0.50	<0.50	<1.0	<5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<50	
Notes:	TPH-D	=	total petroleum hydrocarbon as diesel					1,2 DCA	=	1,2-dichloroethane							
	TPPH	=	total purgeable petroleum hydrocarbons					EDB	=	ethylene dibromide							
	TBA	=	tertiary butyl alcohol					fbg	=	feet below grade							
	MTBE	=	methyl tertiary butyl ether					$\mu\text{g/L}$	=	micrograms per liter							
	DIPE	=	di-isopropyl ether					--	=	not analyzed, measured, or collected							
	ETBE	=	ethyl tertiary butyl ether					na	=	not applicable							
	TAME	=	tertiary amyl methyl ether														

## SECTION 4

## **GENERAL FIELD PROCEDURES**

The following is a description of general field procedures used during drilling, groundwater and soil sampling activities.

### **GEOPROBE SOIL SAMPLING**

Soil sampling points are driven into the soil using hydraulically actuated "direct-push" and percussion equipment. The soil sampling points consist of 1.5-inch-diameter hollow steel rods fitted with a reverse-threaded or sliding hardened drive point. Borings will be grouted to ground surface with a cement/bentonite slurry

Soil samples are obtained for soil description, field hydrocarbon vapor screening, and possible laboratory analysis. Soil samples are retrieved from the borings using a 3-foot-long, 2-inch diameter continuous-core split-barrel sampler lined with six 1.5-inch-diameter stainless steel/brass sample tubes or a 4-foot-long acetate liner.

During drilling activities, soil adjacent to the laboratory sample is screened for combustible vapors using a combustible gas indicator (CGI) or equivalent field instrument. For each hydrocarbon vapor screening event, a stainless steel tube is filled approximately 1/3 full with the soil sample, capped at both ends, and shaken. The probe is then inserted through a small opening in the cap, and a reading is taken after approximately 15 seconds and recorded on the boring log. The remaining soil recovered is removed from the sample insert or sampler, and described in accordance with the Unified Soil Classification System. For each sampling interval, field estimates of soil type, density/consistency, moisture, color, and grading are recorded on the boring logs.

### **SOIL SAMPLE HANDLING**

Upon retrieval, soil samples are immediately removed from the sampler, sealed with Teflon sheeting and polyurethane caps, and wrapped with tape. Each sample is labeled with the project number, boring/well number, sample depth, geologist's initials, and date of collection. After the samples have been labeled and documented in the chain of custody record, they are placed in a cooler with ice at approximately 4 degrees Celsius (°C) prior to and during transport to a state-certified laboratory for analysis. Samples not selected for immediate analysis may be transported in a cooler with ice and archived in a frostless refrigerator at approximately 4°C for possible future testing.

### **HYDROPUNCH SAMPLING**

A grab groundwater sample is collected using a Hydropunch® sampling device. The Hydropunch® consists of a stainless steel probe, which is advanced into the water-yielding zone then withdrawn to expose an internal screen. A decontaminated stainless steel bailer is inserted



down the center of the well screen to obtain a "grab-type" groundwater sample for analysis. The boring is grouted to ground surface with cement/bentonite slurry.

#### CHAIN OF CUSTODY PROTOCOL

Chain of custody protocol is followed for all soil selected for laboratory analysis. The chain of custody forms(s) accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis.

#### DECONTAMINATION

Drilling equipment is decontaminated by steam cleaning before being brought onsite. The augers are also steam cleaned before each new boring is commenced. Prior to use, the sampler and sampling tubes are brush-scrubbed in a Liqui-nox and potable water solution and rinsed twice in clean potable water. Sampling equipment and tubes are also decontaminated before each sample is collected to avoid cross-contamination between borings.

#### GROUNDWATER MONITORING AND SAMPLING ASSIGNMENTS

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring 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

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 depths 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.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

##### 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.

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 measurement 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 until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, 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.

#### 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.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch 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.

After filling, all containers are labeled with project number (or site number), well designation, sample date, and the samplers 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 are specified on the TSR. In general, wells are gauged beginning with the least-affected well and ending with the well that has 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 well to the most-affected well.

### 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 to a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

### Exceptions

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

1/5/04 version

PROJECT NO.: 42-0187-01	DATE DRILLED: 1/24/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 25.5 feet DEPTH TO WATER: 23.5 feet	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
				0	Vacuum clearance to 5'.			
34.0	3.0/ 3.0			5	SAND (SP): Gray (10YR 6/1), 10% fines, 90% fine- to medium-grained sand, dense, dry, hydrocarbon odor.  - @ 8': color change to grayish brown (10YR 5/2), slight odor.  - @ 12': color change to brown (10YR 4/3), no odor.	SP		0 5 10 15 20 25 30 35 40
5.0	4.0/ 4.0			10				
1.0	3.0/ 3.0			15	No recovery.			
1.2	2.0/ 2.0			20				
1.5	3.0/ 3.0			25	SAND (SP): same as above.  - @ 21.5': color change to dark gray (10YR 4/1).  - @ 24': color change to grayish brown (10YR 5/2), wet.	SP		
1.4	2.5/ 2.5			30				
				35				
				40				



**LOG OF EXPLORATORY BORING**

PROJECT NO.: 42-0187-01	DATE DRILLED: 1/24/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 24.0 feet DEPTH TO WATER: 23.0 feet	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
				0	Vacuum clearance to 5'.			0
0.6	3.0/3.0			5	SAND (SP): Brown (10YR 4/3), 10% fines, 90% fine-grained sand, loose, dry.			5
7.1	4.0/4.0			10				10
2.8	3.0/3.0			15	- @ 15': fine- to medium-grained sand.			15
2.1	1.0/1.0			17.5	- @ 17.5': color change to dark grayish brown (10YR 4/2), dense.			17.5
2.0	1.5/1.5			20				20
1.9	2.0/2.0			23	SILTY CLAY (CL): Gray (10YR 5/1), 95% fines, 5% fine-grained sand, medium plasticity, soft, wet.	CL		23
2.1	1.5/1.5			25				25
1.6	3.0/3.0			30				30
				35				35
				40				40



**LOG OF EXPLORATORY BORING**





PROJECT NO.: 42-0187-01	DATE DRILLED: 1/25/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 18.0 feet DEPTH TO WATER: 15.0 feet	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
1.4				0	Vacuum clearance to 5'.			0
		0.0/3.0		5	No recovery.			5
	0.0/4.0			10				10
	1.0/3.5			15	PEA GRAVEL: wet.			15
	2.5/2.5			15	SAND (GW): Brown (10YR 4/3), 5% fines, 95% fine- to medium-grained sand, loose, wet.	GW		15
				20				20
				25				25
				30				30
				35				35
				40				40



**LOG OF EXPLORATORY BORING**

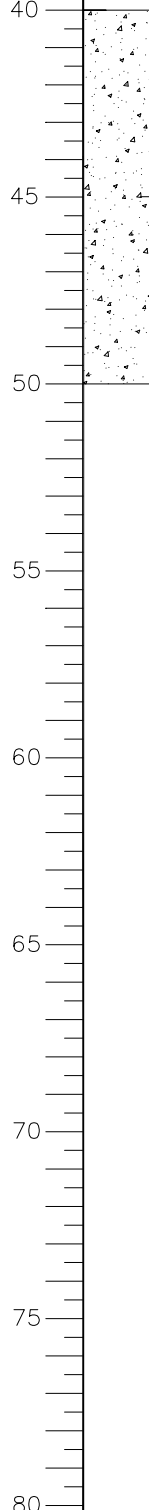
PROJECT NO.: 42-0187-01	DATE DRILLED: 1/25/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 50.0 feet DEPTH TO WATER: 49.0 feet	USCS	LITHOLOGY	BORING BACKFILL DETAIL	
					DESCRIPTION				
				0	Vacuum clearance to 5'.			0	
44.0		3.0/ 3.0		5	SILTY CLAY (CL): Greenish gray (GLEYS 1 5/10Y), 90% fines, 10% fine-grained sand, medium plastic, soft, moist, hydrocarbon odor.	CL		5	Grout to Surface
1.3		4.0/ 4.0		8.5	- @ 8.5': stiff.				
1.7		2.0/ 4.0		13	SAND (SP): Grayish brown (10YR 5/2), 10% fines, 90% fine-grained sand, dense, no odor.	SP		13	
2.0		3.0/ 3.0		13.5	- @ 13': color change to brown (10YR 5/3).				
				13.5	- @ 13.5': color change to very dark gray (10YR 3/1).				
0.9		1.0/ 1.0		18	- @ 18': color change to dark grayish brown (10YR 4/2).				
1.5		3.0/ 3.0		20					
2.0		1.0/ 1.0		25	Difficult drilling conditions; augers used; no samples collected.				
				30					
				35					
				40					



**LOG OF EXPLORATORY BORING**

PROJECT NO.: 42-0187-01	DATE DRILLED: 1/25/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 50.0 feet DEPTH TO WATER: 49.0 feet	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
1.2			1.0/ 1.0	40	Difficult drilling conditions.			
				50				
				55				
				60				
				65				
				70				
				75				
				80				



**LOG OF EXPLORATORY BORING**

PROJECT NO.: 42-0187-01	DATE DRILLED: 1/31/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 23.0 feet DEPTH TO WATER: Not Encountered	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
				0	Vacuum clearance to 5'.			0
0.2	3.0/3.0			5	SILT (ML): Light yellowish brown (10YR 6/4), 90% fines, 10% fine-grained sand, nonplastic, stiff, dry.	ML		5
0.4	4.0/4.0			10	SAND (SP): Brown (10YR 5/3), 10% fines, 90% fine- to medium-grained sand, dense, dry.			10
1.2	4.0/4.0			15				15
1.2	2.0/2.0			17.5	- @ 17.5': color change to gray (10YR 5/11), fine-grained sand, loose.	SP		17.5
1.8	2.0/2.0			20				20
2.5	2.0/2.0			25				25
2.0	1.0/1.0			30				30
				35				35
				40				40



**LOG OF EXPLORATORY BORING**

PROJECT NO.: 42-0187-01	DATE DRILLED: 1/31/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 50.0 feet DEPTH TO WATER: 47.0 feet	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
				0	Vacuum clearance to 5'.			0
24.6	3.0/3.0			5	SILT (ML): Greenish gray (GLE Y1 5/10Y), 90% fines, 10% fine- to medium-grained sand, low plasticity, soft, moist.	ML		5
190.1	2.0/2.0			10	SAND (SP): Pale brown (10YR 6/3), 15% fines, 85% fine-grained sand, dry.			10
60.1	2.0/2.0			12.5	- @ 12.5': color change to yellowish brown (10YR 5/4).			12.5
2.2	1.0/1.0			15	- @ 15.5': medium-grained sand, slight hydrocarbon odor.	SP		15
6.7	3.0/3.0			20	- @ 20': no odor.			20
7.1	3.0/3.0			25				25
6.8	2.0/2.0			30				30
				35				35
				40	Difficult drilling conditions; augers used; no samples collected.			40



**LOG OF EXPLORATORY BORING**



PROJECT NO.: 42-0187-01	DATE DRILLED: 1/31/05	NORTHING: NOT SURVEYED
LOCATION: 76 Station #3072	LOGGED BY: R. Dunn	EASTING: NOT SURVEYED
2445 Castro Valley Blvd.	APPROVED BY: K. Woodburne, RG	GROUND SURFACE ELEVATION: NOT SURVEYED
Castro Valley, California	DRILLING CO.: Woodward Drilling	

PID/FID (ppm)	BLOWS PER 6 INCHES	RECOVERY	SAMPLE	DEPTH (feet below grade)	DRILLING METHOD: 2-inch Diameter Direct-Push SAMPLER TYPE: 4-foot Continuous-Core Barrel TOTAL DEPTH: 50.0 feet DEPTH TO WATER: 47.0 feet	USCS	LITHOLOGY	BORING BACKFILL DETAIL
					DESCRIPTION			
				40	Difficult drilling conditions.			40
				45				45
		3.0/ 3.0		50	SANDY SILT (ML): Gray (10YR 5/1), 90% fines, 10% fine-grained sand, low plasticity, soft, wet. SAND (SP): Gray (10YR 6/1), 10% fines, 90% fine-grained sand, dense, dry.	ML SP		50
				55				55
				60				60
				65				65
				70				70
				75				75
				80				80



**LOG OF EXPLORATORY BORING**

## SECTION 5

**TRC/Alton Geoscience-Concord**

February 10, 2005

1590 Solano Way, Suite A  
Concord, CA 94520

Attn.: Keith Woodburne

Project#: 42018701

Project: Conoco Phillips # 3072

Site: 2445 Castro Valley Blvd., Castro Valley

Attached is our report for your samples received on 01/26/2005 15:00

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 03/12/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: [dsharma@stl-inc.com](mailto:dsharma@stl-inc.com)

Sincerely,



Dimple Sharma  
Project Manager

**Total Lead**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
COMPOSITE	01/25/2005 19:30	Soil	12

**Total Lead**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>COMPOSITE</b>	Lab ID: 2005-01-0746 - 12
Sampled: 01/25/2005 19:30	Extracted: 1/28/2005 11:52
Matrix: Soil	QC Batch#: 2005/01/28-05.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.5	1.0	mg/Kg	1.00	01/31/2005 11:19	



**Total Lead**

TRC/Alton Geoscience-Concord  
Attn.: Keith Woodburne

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Concord, CA 94520  
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 3050B Test(s): 6010B  
**Method Blank** **Soil** **QC Batch # 2005/01/28-05.15**  
 MB: 2005/01/28-05.15-025 Date Extracted: 01/28/2005 11:52

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	01/31/2005 10:19	

**Total Lead**

TRC/Alton Geoscience-Concord  
Attn.: Keith Woodburne

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Concord, CA 94520  
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report										
Prep(s): 3050B						Test(s): 6010B				
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2005/01/28-05.15</b>				
LCS	2005/01/28-05.15-026		Extracted: 01/28/2005			Analyzed: 01/31/2005 10:24				
LCSD	2005/01/28-05.15-027		Extracted: 01/28/2005			Analyzed: 01/31/2005 10:28				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	104	105	100.0	104.0	105.0	1.0	80-120	20		

**Diesel (C9-C24)**

TRC/Alton Geoscience-Concord

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-3	01/25/2005 11:10	Water	8

**Diesel (C9-C24)**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>SB-3</b>	Lab ID: 2005-01-0746 - 8
Sampled: 01/25/2005 11:10	Extracted: 2/2/2005 12:38
Matrix: Water	QC Batch#: 2005/02/02-09.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	02/03/2005 23:08	
<b>Surrogate(s)</b> o-Terphenyl	98.5	78-177	%	1.00	02/03/2005 23:08	

**Diesel (C9-C24)**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 3511

**Method Blank**

MB: 2005/02/02-09.10-001

**Water**

Test(s): 8015M

**QC Batch # 2005/02/02-09.10**

Date Extracted: 02/02/2005 12:38

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	02/03/2005 23:38	
<b>Surrogates(s)</b> o-Terphenyl	100.0	78-177	%	02/03/2005 23:38	



**Diesel (C9-C24)**

TRC/Alton Geoscience-Concord  
Attn.: Keith Woodburne

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report										
Prep(s): 3511						Test(s): 8015M				
<b>Laboratory Control Spike</b>			<b>Water</b>			<b>QC Batch # 2005/02/02-09.10</b>				
LCS	2005/02/02-09.10-002		Extracted: 02/02/2005			Analyzed: 02/04/2005 00:07				
LCSD	2005/02/02-09.10-003		Extracted: 02/02/2005			Analyzed: 02/04/2005 00:36				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	473	523	680	69.6	76.9	10.0	60-150	25		
<b>Surrogates(s)</b> o-Terphenyl	1.09	1.22	1.25	87.4	97.4		78-177	0		

**Diesel**

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-3 @ 18	01/25/2005 09:10	Soil	7
SB-4 @ 8	01/25/2005 12:55	Soil	9
COMPOSITE	01/25/2005 19:30	Soil	12

**Diesel**

TRC/Alton Geoscience-Concord

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>SB-3 @ 18</b>	Lab ID:	2005-01-0746 - 7
Sampled:	01/25/2005 09:10	Extracted:	2/2/2005 11:06
Matrix:	Soil	QC Batch#:	2005/02/02-6B.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	02/03/2005 08:32	
<b>Surrogate(s)</b> o-Terphenyl	72.0	60-130	%	1.00	02/03/2005 08:32	

**Diesel**

TRC/Alton Geoscience-Concord  
Attn.: Keith Woodburne

1590 Solano Way, Suite A  
Concord, CA 94520  
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>SB-4 @ 8</b>	Lab ID: 2005-01-0746 - 9
Sampled: 01/25/2005 12:55	Extracted: 2/2/2005 11:06
Matrix: Soil	QC Batch#: 2005/02/02-6B.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	25	1.0	mg/Kg	1.00	02/03/2005 21:19	Q2
<b>Surrogate(s)</b> o-Terphenyl	85.2	60-130	%	1.00	02/03/2005 21:19	

**Diesel**

TRC/Alton Geoscience-Concord

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Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>COMPOSITE</b>	Lab ID:	2005-01-0746 - 12
Sampled:	01/25/2005 19:30	Extracted:	2/2/2005 11:06
Matrix:	Soil	QC Batch#:	2005/02/02-6B.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	5.0	1.0	mg/Kg	1.00	02/03/2005 23:31	Q2
<b>Surrogate(s)</b> o-Terphenyl	85.5	60-130	%	1.00	02/03/2005 23:31	

**Diesel**

TRC/Alton Geoscience-Concord  
Attn.: Keith Woodburne

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Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report					
Prep(s): 3550/8015M		Test(s): 8015M			
<b>Method Blank</b>		<b>Soil</b>		<b>QC Batch # 2005/02/02-6B.10</b>	
MB: 2005/02/02-6B.10-001		Date Extracted: 02/02/2005 11:06			
Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	02/02/2005 16:49	
<b>Surrogates(s)</b> o-Terphenyl	68.2	60-130	%	02/02/2005 16:49	



**Diesel**

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 3550/8015M

Test(s): 8015M

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/02/02-6B.10**

LCS 2005/02/02-6B.10-002

Extracted: 02/02/2005

Analyzed: 02/02/2005 17:15

LCSD 2005/02/02-6B.10-003

Extracted: 02/02/2005

Analyzed: 02/02/2005 17:41

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	30.5	32.9	41.5	73.5	78.9	7.1	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	17.2	18.0	20.0	86.1	90.0		60-130			

**Diesel**

TRC/Alton Geoscience-Concord

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Legend and Notes**

**Result Flag**

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-1	01/24/2005 09:00	Water	3
SB-2	01/24/2005 12:30	Water	6
SB-3	01/25/2005 11:10	Water	8
SB-4	01/25/2005 18:50	Water	11

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-1</b>	Lab ID: 2005-01-0746 - 3
Sampled: 01/24/2005 09:00	Extracted: 2/7/2005 12:09
Matrix: Water	QC Batch#: 2005/02/07-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	02/07/2005 12:09	
Benzene	ND	0.50	ug/L	1.00	02/07/2005 12:09	
Toluene	ND	0.50	ug/L	1.00	02/07/2005 12:09	
Ethylbenzene	0.77	0.50	ug/L	1.00	02/07/2005 12:09	
Total xylenes	ND	1.0	ug/L	1.00	02/07/2005 12:09	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/07/2005 12:09	
Methyl tert-butyl ether (MTBE)	87	0.50	ug/L	1.00	02/07/2005 12:09	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	02/07/2005 12:09	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/07/2005 12:09	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/07/2005 12:09	
1,2-DCA	ND	0.50	ug/L	1.00	02/07/2005 12:09	
EDB	ND	0.50	ug/L	1.00	02/07/2005 12:09	
Ethanol	ND	50	ug/L	1.00	02/07/2005 12:09	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.6	73-130	%	1.00	02/07/2005 12:09	
Toluene-d8	98.7	81-114	%	1.00	02/07/2005 12:09	

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-2</b>	Lab ID: 2005-01-0746 - 6
Sampled: 01/24/2005 12:30	Extracted: 2/7/2005 13:17
Matrix: Water	QC Batch#: 2005/02/07-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	02/07/2005 13:17	
Benzene	ND	0.50	ug/L	1.00	02/07/2005 13:17	
Toluene	ND	0.50	ug/L	1.00	02/07/2005 13:17	
Ethylbenzene	ND	0.50	ug/L	1.00	02/07/2005 13:17	
Total xylenes	1.2	1.0	ug/L	1.00	02/07/2005 13:17	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/07/2005 13:17	
Methyl tert-butyl ether (MTBE)	0.68	0.50	ug/L	1.00	02/07/2005 13:17	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	02/07/2005 13:17	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/07/2005 13:17	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/07/2005 13:17	
1,2-DCA	ND	0.50	ug/L	1.00	02/07/2005 13:17	
EDB	ND	0.50	ug/L	1.00	02/07/2005 13:17	
Ethanol	ND	50	ug/L	1.00	02/07/2005 13:17	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	98.4	73-130	%	1.00	02/07/2005 13:17	
Toluene-d8	97.2	81-114	%	1.00	02/07/2005 13:17	

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A  
Concord, CA 94520  
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-3</b>	Lab ID: 2005-01-0746 - 8
Sampled: 01/25/2005 11:10	Extracted: 2/7/2005 13:39
Matrix: Water	QC Batch#: 2005/02/07-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	02/07/2005 13:39	
Benzene	ND	0.50	ug/L	1.00	02/07/2005 13:39	
Toluene	ND	0.50	ug/L	1.00	02/07/2005 13:39	
Ethylbenzene	ND	0.50	ug/L	1.00	02/07/2005 13:39	
Total xylenes	ND	1.0	ug/L	1.00	02/07/2005 13:39	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/07/2005 13:39	
Methyl tert-butyl ether (MTBE)	5.1	0.50	ug/L	1.00	02/07/2005 13:39	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	02/07/2005 13:39	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/07/2005 13:39	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/07/2005 13:39	
1,2-DCA	ND	0.50	ug/L	1.00	02/07/2005 13:39	
EDB	ND	0.50	ug/L	1.00	02/07/2005 13:39	
Ethanol	ND	50	ug/L	1.00	02/07/2005 13:39	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.7	73-130	%	1.00	02/07/2005 13:39	
Toluene-d8	100.8	81-114	%	1.00	02/07/2005 13:39	



**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-4</b>	Lab ID: 2005-01-0746 - 11
Sampled: 01/25/2005 18:50	Extracted: 2/7/2005 14:02
Matrix: Water	QC Batch#: 2005/02/07-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	1.00	02/07/2005 14:02	
Benzene	ND	0.50	ug/L	1.00	02/07/2005 14:02	
Toluene	ND	0.50	ug/L	1.00	02/07/2005 14:02	
Ethylbenzene	ND	0.50	ug/L	1.00	02/07/2005 14:02	
Total xylenes	ND	1.0	ug/L	1.00	02/07/2005 14:02	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	02/07/2005 14:02	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	02/07/2005 14:02	
Di-isopropyl Ether (DIPE)	ND	0.50	ug/L	1.00	02/07/2005 14:02	
Ethyl tert-butyl ether (ETBE)	ND	0.50	ug/L	1.00	02/07/2005 14:02	
tert-Amyl methyl ether (TAME)	ND	0.50	ug/L	1.00	02/07/2005 14:02	
1,2-DCA	ND	0.50	ug/L	1.00	02/07/2005 14:02	
EDB	ND	0.50	ug/L	1.00	02/07/2005 14:02	
Ethanol	ND	50	ug/L	1.00	02/07/2005 14:02	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.4	73-130	%	1.00	02/07/2005 14:02	
Toluene-d8	97.4	81-114	%	1.00	02/07/2005 14:02	

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

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Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Water**

**QC Batch # 2005/02/07-2A.66**

MB: 2005/02/07-2A.66-013

Date Extracted: 02/07/2005 09:13

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	ug/L	02/07/2005 09:13	
Benzene	ND	0.5	ug/L	02/07/2005 09:13	
Toluene	ND	0.5	ug/L	02/07/2005 09:13	
Ethylbenzene	ND	0.5	ug/L	02/07/2005 09:13	
Total xylenes	ND	1.0	ug/L	02/07/2005 09:13	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	02/07/2005 09:13	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	02/07/2005 09:13	
Di-isopropyl Ether (DIPE)	ND	0.5	ug/L	02/07/2005 09:13	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	02/07/2005 09:13	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	02/07/2005 09:13	
1,2-DCA	ND	0.5	ug/L	02/07/2005 09:13	
EDB	ND	0.5	ug/L	02/07/2005 09:13	
Ethanol	ND	50	ug/L	02/07/2005 09:13	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	99.6	73-130	%	02/07/2005 09:13	
Toluene-d8	96.8	81-114	%	02/07/2005 09:13	

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/02/07-2A.66**

LCS 2005/02/07-2A.66-050

Extracted: 02/07/2005

Analyzed: 02/07/2005 08:50

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	21.4		25	85.6			65-165	20		
Benzene	22.8		25	91.2			69-129	20		
Toluene	27.3		25	109.2			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	481		500	96.2			73-130			
Toluene-d8	488		500	97.6			81-114			

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/02/07-2A.66**

SB-1 >> MS

Lab ID: 2005-01-0746 - 003

MS: 2005/02/07-2A.66-032

Extracted: 02/07/2005

Analyzed: 02/07/2005 12:32

Dilution: 1.00

MSD: 2005/02/07-2A.66-054

Extracted: 02/07/2005

Analyzed: 02/07/2005 12:54

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	112	115	86.7	25	101.2	113.2	11.2	65-165	20		
Benzene	24.9	26.3	ND	25	99.6	105.2	5.5	69-129	20		
Toluene	30.6	31.7	ND	25	122.4	126.8	3.5	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	450	489		500	90.0	97.8		73-130			
Toluene-d8	490	509		500	98.0	101.8		81-114			

**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-1 @ 25.5	01/24/2005 17:50	Soil	2
SB-2 @ 12	01/24/2005 08:40	Soil	4
SB-2 @ 24	01/24/2005 12:15	Soil	5
SB-3 @ 18	01/25/2005 09:10	Soil	7
SB-4 @ 50	01/25/2005 19:20	Soil	10
COMPOSITE	01/25/2005 19:30	Soil	12

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

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Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-1 @ 25.5</b>	Lab ID: 2005-01-0746 - 2
Sampled: 01/24/2005 17:50	Extracted: 2/7/2005 11:24
Matrix: Soil	QC Batch#: 2005/02/07-1A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/07/2005 11:24	
Benzene	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
Toluene	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
Total xylenes	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
tert-Butyl alcohol (TBA)	0.013	0.010	mg/Kg	1.00	02/07/2005 11:24	
Methyl tert-butyl ether (MTBE)	0.074	0.0050	mg/Kg	1.00	02/07/2005 11:24	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/07/2005 11:24	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
EDB	ND	0.0050	mg/Kg	1.00	02/07/2005 11:24	
Ethanol	ND	0.1	mg/Kg	1.00	02/07/2005 11:24	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	104.2	72-124	%	1.00	02/07/2005 11:24	
Toluene-d8	92.6	75-116	%	1.00	02/07/2005 11:24	



**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-2 @ 12</b>	Lab ID: 2005-01-0746 - 4
Sampled: 01/24/2005 08:40	Extracted: 2/5/2005 13:34
Matrix: Soil	QC Batch#: 2005/02/05-1A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/05/2005 13:34	
Benzene	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
Toluene	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
Ethyl benzene	0.043	0.0050	mg/Kg	1.00	02/05/2005 13:34	
Total xylenes	0.021	0.0050	mg/Kg	1.00	02/05/2005 13:34	
tert-Butyl alcohol (TBA)	0.014	0.010	mg/Kg	1.00	02/05/2005 13:34	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/05/2005 13:34	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
EDB	ND	0.0050	mg/Kg	1.00	02/05/2005 13:34	
Ethanol	ND	0.1	mg/Kg	1.00	02/05/2005 13:34	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	103.9	72-124	%	1.00	02/05/2005 13:34	
Toluene-d8	94.4	75-116	%	1.00	02/05/2005 13:34	

### Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

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Project: 42018701  
 Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-2 @ 24</b>	Lab ID: 2005-01-0746 - 5
Sampled: 01/24/2005 12:15	Extracted: 2/7/2005 11:47
Matrix: Soil	QC Batch#: 2005/02/07-1A.66
Analysis Flag: N1 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/07/2005 11:47	
Benzene	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
Toluene	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
Total xylenes	0.011	0.0050	mg/Kg	1.00	02/07/2005 11:47	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	02/07/2005 11:47	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/07/2005 11:47	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
EDB	ND	0.0050	mg/Kg	1.00	02/07/2005 11:47	
Ethanol	ND	0.1	mg/Kg	1.00	02/07/2005 11:47	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.2	72-124	%	1.00	02/07/2005 11:47	
Toluene-d8	94.1	75-116	%	1.00	02/07/2005 11:47	

### Gas/BTEX Fuel Oxygenates by 8260B

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Project: 42018701  
 Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-3 @ 18</b>	Lab ID: 2005-01-0746 - 7
Sampled: 01/25/2005 09:10	Extracted: 2/7/2005 23:03
Matrix: Soil	QC Batch#: 2005/02/07-3A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/07/2005 23:03	
Benzene	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
Toluene	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
Total xylenes	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	02/07/2005 23:03	
Methyl tert-butyl ether (MTBE)	0.11	0.0050	mg/Kg	1.00	02/07/2005 23:03	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/07/2005 23:03	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
EDB	ND	0.0050	mg/Kg	1.00	02/07/2005 23:03	
Ethanol	ND	0.1	mg/Kg	1.00	02/07/2005 23:03	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	114.7	72-124	%	1.00	02/07/2005 23:03	
Toluene-d8	93.7	75-116	%	1.00	02/07/2005 23:03	

**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-4 @ 50</b>	Lab ID: 2005-01-0746 - 10
Sampled: 01/25/2005 19:20	Extracted: 2/8/2005 13:49
Matrix: Soil	QC Batch#: 2005/02/08-1A.66
Analysis Flag: N1 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/08/2005 13:49	
Benzene	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
Toluene	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
Total xylenes	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	02/08/2005 13:49	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/08/2005 13:49	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
EDB	ND	0.0050	mg/Kg	1.00	02/08/2005 13:49	
Ethanol	ND	0.1	mg/Kg	1.00	02/08/2005 13:49	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	116.9	72-124	%	1.00	02/08/2005 13:49	
Toluene-d8	82.6	75-116	%	1.00	02/08/2005 13:49	

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

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Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>COMPOSITE</b>	Lab ID: 2005-01-0746 - 12
Sampled: 01/25/2005 19:30	Extracted: 2/8/2005 14:11
Matrix: Soil	QC Batch#: 2005/02/08-1A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/08/2005 14:11	
Benzene	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
Toluene	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
Total xylenes	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	02/08/2005 14:11	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/08/2005 14:11	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
EDB	ND	0.0050	mg/Kg	1.00	02/08/2005 14:11	
Ethanol	ND	0.1	mg/Kg	1.00	02/08/2005 14:11	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	110.6	72-124	%	1.00	02/08/2005 14:11	
Toluene-d8	96.0	75-116	%	1.00	02/08/2005 14:11	

**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/02/05-1A.66**

MB: 2005/02/05-1A.66-055

Date Extracted: 02/05/2005 11:55

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1	mg/Kg	02/05/2005 11:55	
Benzene	ND	0.005	mg/Kg	02/05/2005 11:55	
Toluene	ND	0.005	mg/Kg	02/05/2005 11:55	
Ethyl benzene	ND	0.005	mg/Kg	02/05/2005 11:55	
Total xylenes	ND	0.005	mg/Kg	02/05/2005 11:55	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	02/05/2005 11:55	
Methyl tert-butyl ether (MTBE)	ND	0.005	mg/Kg	02/05/2005 11:55	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	02/05/2005 11:55	
Ethyl tert-butyl ether (ETBE)	ND	0.005	mg/Kg	02/05/2005 11:55	
tert-Amyl methyl ether (TAME)	ND	0.005	mg/Kg	02/05/2005 11:55	
1,2-DCA	ND	0.005	mg/Kg	02/05/2005 11:55	
EDB	ND	0.005	mg/Kg	02/05/2005 11:55	
Ethanol	ND	0.100	mg/Kg	02/05/2005 11:55	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	107.2	72-124	%	02/05/2005 11:55	
Toluene-d8	110.8	75-116	%	02/05/2005 11:55	



**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/02/07-1A.66**

MB: 2005/02/07-1A.66-027

Date Extracted: 02/07/2005 08:27

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1	mg/Kg	02/07/2005 08:27	
Benzene	ND	0.005	mg/Kg	02/07/2005 08:27	
Toluene	ND	0.005	mg/Kg	02/07/2005 08:27	
Ethyl benzene	ND	0.005	mg/Kg	02/07/2005 08:27	
Total xylenes	ND	0.005	mg/Kg	02/07/2005 08:27	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	02/07/2005 08:27	
Methyl tert-butyl ether (MTBE)	ND	0.005	mg/Kg	02/07/2005 08:27	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	02/07/2005 08:27	
Ethyl tert-butyl ether (ETBE)	ND	0.005	mg/Kg	02/07/2005 08:27	
tert-Amyl methyl ether (TAME)	ND	0.005	mg/Kg	02/07/2005 08:27	
1,2-DCA	ND	0.005	mg/Kg	02/07/2005 08:27	
EDB	ND	0.005	mg/Kg	02/07/2005 08:27	
Ethanol	ND	0.100	mg/Kg	02/07/2005 08:27	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	100.4	72-124	%	02/07/2005 08:27	
Toluene-d8	96.8	75-116	%	02/07/2005 08:27	

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

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Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

**Method Blank**

MB: 2005/02/07-3A.66-005

**Soil**

Test(s): 8260B

**QC Batch # 2005/02/07-3A.66**

Date Extracted: 02/07/2005 18:05

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1	mg/Kg	02/07/2005 18:05	
Benzene	ND	0.005	mg/Kg	02/07/2005 18:05	
Toluene	ND	0.005	mg/Kg	02/07/2005 18:05	
Ethyl benzene	ND	0.005	mg/Kg	02/07/2005 18:05	
Total xylenes	ND	0.005	mg/Kg	02/07/2005 18:05	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	02/07/2005 18:05	
Methyl tert-butyl ether (MTBE)	ND	0.005	mg/Kg	02/07/2005 18:05	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	02/07/2005 18:05	
Ethyl tert-butyl ether (ETBE)	ND	0.005	mg/Kg	02/07/2005 18:05	
tert-Amyl methyl ether (TAME)	ND	0.005	mg/Kg	02/07/2005 18:05	
1,2-DCA	ND	0.005	mg/Kg	02/07/2005 18:05	
EDB	ND	0.005	mg/Kg	02/07/2005 18:05	
Ethanol	ND	0.100	mg/Kg	02/07/2005 18:05	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	98.6	72-124	%	02/07/2005 18:05	
Toluene-d8	96.4	75-116	%	02/07/2005 18:05	

**Gas/BTEX Fuel Oxygenates by 8260B**

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Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/02/08-1A.66**

MB: 2005/02/08-1A.66-027

Date Extracted: 02/08/2005 07:27

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1	mg/Kg	02/08/2005 07:27	
Benzene	ND	0.005	mg/Kg	02/08/2005 07:27	
Toluene	ND	0.005	mg/Kg	02/08/2005 07:27	
Ethyl benzene	ND	0.005	mg/Kg	02/08/2005 07:27	
Total xylenes	ND	0.005	mg/Kg	02/08/2005 07:27	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	02/08/2005 07:27	
Methyl tert-butyl ether (MTBE)	ND	0.005	mg/Kg	02/08/2005 07:27	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	02/08/2005 07:27	
Ethyl tert-butyl ether (ETBE)	ND	0.005	mg/Kg	02/08/2005 07:27	
tert-Amyl methyl ether (TAME)	ND	0.005	mg/Kg	02/08/2005 07:27	
1,2-DCA	ND	0.005	mg/Kg	02/08/2005 07:27	
EDB	ND	0.005	mg/Kg	02/08/2005 07:27	
Ethanol	ND	0.100	mg/Kg	02/08/2005 07:27	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	103.0	72-124	%	02/08/2005 07:27	
Toluene-d8	96.4	75-116	%	02/08/2005 07:27	

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/02/05-1A.66**

LCS 2005/02/05-1A.66-033

Extracted: 02/05/2005

Analyzed: 02/05/2005 11:33

LCSD

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0478		0.05	95.6			65-165	20		
Benzene	0.0404		0.05	80.8			69-129	20		
Toluene	0.0505		0.05	101.0			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	527		500	105.4			72-124			
Toluene-d8	544		500	108.8			75-116			

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord  
Attn.: Keith Woodburne

1590 Solano Way, Suite A  
Concord, CA 94520  
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report										
Prep(s): 5030B							Test(s): 8260B			
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2005/02/07-1A.66</b>				
LCS	2005/02/07-1A.66-049		Extracted: 02/07/2005			Analyzed: 02/07/2005 09:49				
LCSD										

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0370		0.05	74.0			65-165	20		
Benzene	0.0371		0.05	74.2			69-129	20		
Toluene	0.0469		0.05	93.8			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	496		500	99.2			72-124			
Toluene-d8	514		500	102.8			75-116			

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/02/07-3A.66**

LCS 2005/02/07-3A.66-043

Extracted: 02/07/2005

Analyzed: 02/07/2005 17:43

LCSD

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0452		0.05	90.4			65-165	20		
Benzene	0.0413		0.05	82.6			69-129	20		
Toluene	0.0532		0.05	106.4			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	486		500	97.2			72-124			
Toluene-d8	500		500	100.0			75-116			

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/02/08-1A.66**

LCS 2005/02/08-1A.66-003

Extracted: 02/08/2005

Analyzed: 02/08/2005 07:04

LCSD

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0450		0.05	90.0			65-165	20		
Benzene	0.0454		0.05	90.8			69-129	20		
Toluene	0.0563		0.05	112.6			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	478		500	95.6			72-124			
Toluene-d8	490		500	98.0			75-116			



**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/02/05-1A.66**

MS/MSD

Lab ID: 2005-02-0085 - 001

MS: 2005/02/05-1A.66-004

Extracted: 02/05/2005

Analyzed: 02/05/2005 15:04

Dilution: 1.00

MSD: 2005/02/05-1A.66-026

Extracted: 02/05/2005

Analyzed: 02/05/2005 15:26

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0385	0.0409	ND	0.047348	81.3	84.1	3.4	65-165	20		
Benzene	0.0391	0.0380	ND	0.047348	82.6	78.1	5.6	69-129	20		
Toluene	0.132	0.0948	0.134	0.047348	-4.2	-80.6	-180	70-130	20	M5	M5,R1
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	510	479		500	102.0	95.8		72-124			
Toluene-d8	535	505		500	107.0	101.0		75-116			

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B	Test(s): 8260B
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>
	<b>QC Batch # 2005/02/07-1A.66</b>
MS/MSD	Lab ID: 2005-01-0653 - 003
MS: 2005/02/07-1A.66-040	Extracted: 02/07/2005
	Analyzed: 02/07/2005 10:40
	Dilution: 1.00
MSD: 2005/02/07-1A.66-002	Extracted: 02/07/2005
	Analyzed: 02/07/2005 11:02
	Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0627	0.0541	ND	0.049603	126.4	112.1	12.0	65-165	20		
Benzene	0.0617	0.0560	ND	0.049603	124.4	116.0	7.0	69-129	20		
Toluene	0.0561	0.0531	ND	0.049603	113.1	110.0	2.8	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	694	638		500	138.8	127.6		72-124		S7	S7
Toluene-d8	517	514		500	103.4	102.8		75-116			

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B	Test(s): 8260B
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>
	<b>QC Batch # 2005/02/07-3A.66</b>
MS/MSD	Lab ID: 2005-01-0756 - 011
MS: 2005/02/07-3A.66-040	Extracted: 02/07/2005
	Analyzed: 02/07/2005 19:40
	Dilution: 200.00
MSD: 2005/02/07-3A.66-003	Extracted: 02/07/2005
	Analyzed: 02/07/2005 20:03
	Dilution: 200.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0754	0.0825	0.0382	0.049115	75.7	89.1	16.3	65-165	20		
Benzene	0.0436	0.0446	ND	0.049115	88.8	89.7	1.0	69-129	20		
Toluene	0.0515	0.0494	ND	0.049115	104.9	99.4	5.4	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	480	470		500	96.0	94.0		72-124			
Toluene-d8	503	488		500	100.6	97.6		75-116			

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/02/08-1A.66**

MS/MSD

Lab ID: 2005-02-0085 - 007

MS: 2005/02/08-1A.66-004

Extracted: 02/08/2005

Analyzed: 02/08/2005 13:04

Dilution: 200.00

MSD: 2005/02/08-1A.66-026

Extracted: 02/08/2005

Analyzed: 02/08/2005 13:26

Dilution: 200.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0361	0.0410	ND	0.049505	72.9	83.3	13.3	65-165	20		
Benzene	0.0373	0.0425	ND	0.049505	75.3	86.4	13.7	69-129	20		
Toluene	0.0961	0.0762	0.0397	0.049505	113.9	74.2	42.2	70-130	20		R1
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	489	498		500	97.8	99.6		72-124			
Toluene-d8	493	493		500	98.6	98.6		75-116			

## Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

### Legend and Notes

#### Analysis Flag

N1

Internal standard out of range.

#### Result Flag

M5

MS/MSD spike recoveries were below acceptance limits.  
See blank spike (LCS).

R1

Analyte RPD was out of QC limits.

S7

Surrogate recoveries higher than acceptance limits.

**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-1 @ 8	01/24/2005 14:15	Soil	1
SB-4 @ 8	01/25/2005 12:55	Soil	9

**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A  
Concord, CA 94520  
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-1 @ 8</b>	Lab ID: 2005-01-0746 - 1
Sampled: 01/24/2005 14:15	Extracted: 2/7/2005 16:16
Matrix: Soil	QC Batch#: 2005/02/04-3A.66
Analysis Flag: L2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	480	50	mg/Kg	1.00	02/07/2005 16:16	
Benzene	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
Toluene	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
Ethyl benzene	1.1	0.50	mg/Kg	1.00	02/07/2005 16:16	
Total xylenes	1.1	0.50	mg/Kg	1.00	02/07/2005 16:16	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	02/07/2005 16:16	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	02/07/2005 16:16	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
1,2-DCA	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
EDB	ND	0.50	mg/Kg	1.00	02/07/2005 16:16	
Ethanol	ND	25	mg/Kg	1.00	02/07/2005 16:16	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.2	53-129	%	1.00	02/07/2005 16:16	
Toluene-d8	111.8	47-136	%	1.00	02/07/2005 16:16	



**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A  
Concord, CA 94520  
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-4 @ 8</b>	Lab ID: 2005-01-0746 - 9
Sampled: 01/25/2005 12:55	Extracted: 2/5/2005 21:25
Matrix: Soil	QC Batch#: 2005/02/04-3A.66
Analysis Flag: L2 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	470	50	mg/Kg	1.00	02/05/2005 21:25	
Benzene	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
Toluene	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
Ethyl benzene	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
Total xylenes	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	02/05/2005 21:25	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	02/05/2005 21:25	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
1,2-DCA	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
EDB	ND	0.50	mg/Kg	1.00	02/05/2005 21:25	
Ethanol	ND	25	mg/Kg	1.00	02/05/2005 21:25	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	113.4	53-129	%	1.00	02/05/2005 21:25	
Toluene-d8	104.3	47-136	%	1.00	02/05/2005 21:25	

**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A  
Concord, CA 94520  
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701  
Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/02/04-3A.66**

MB: 2005/02/04-3A.66-015

Date Extracted: 02/05/2005 01:15

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	50	mg/Kg	02/05/2005 01:15	
Benzene	ND	0.5	mg/Kg	02/05/2005 01:15	
Toluene	ND	0.50	mg/Kg	02/05/2005 01:15	
Ethyl benzene	ND	0.50	mg/Kg	02/05/2005 01:15	
Total xylenes	ND	0.50	mg/Kg	02/05/2005 01:15	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	02/05/2005 01:15	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	02/05/2005 01:15	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	02/05/2005 01:15	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	02/05/2005 01:15	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	02/05/2005 01:15	
1,2-DCA	ND	0.50	mg/Kg	02/05/2005 01:15	
EDB	ND	0.50	mg/Kg	02/05/2005 01:15	
Ethanol	ND	25	mg/Kg	02/05/2005 01:15	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	122.8	53-129	%	02/05/2005 01:15	
Toluene-d8	107.6	47-136	%	02/05/2005 01:15	

**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/02/04-3A.66**

LCS 2005/02/04-3A.66-030

Extracted: 02/05/2005

Analyzed: 02/05/2005 00:30

LCSD 2005/02/04-3A.66-052

Extracted: 02/05/2005

Analyzed: 02/05/2005 00:52

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	9.70	10.3	10	97.0	103.0	6.0	69-129	20		
Toluene	10.9	11.7	10	109.0	117.0	7.1	70-130	20		
Methyl tert-butyl ether (MTBE)	8.13	9.09	10	81.3	90.9	11.1	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	299	293	250	119.6	117.2		53-129			
Toluene-d8	293	290	250	117.2	116.0		47-136			

**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 42018701

Conoco Phillips # 3072

Received: 01/26/2005 15:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Legend and Notes**

**Analysis Flag**

L2

Reporting limits were raised due to high level of analyte present in the sample.

STL-San Francisco

# ConocoPhillips Chain Of Custody Record

97754

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

**2005-01-0746**

CONOCOPHILLIPS ATTN: Bill Rodgers  
TN 5046  
600 N. Dairy Ashford Road  
Houston, TX 77079-1175

ConocoPhillips Work Order Number

N/A

ConocoPhillips Cost Object

WNO: 1154

DATE: 1/25/05

PAGE: 1 of 2

SAMPLING COMPANY: <b>TRC</b>		Valid Value ID: <b>TRCC</b>		CONOCOPHILLIPS SITE NUMBER <b>3072</b>		GLOBAL ID NO.: <b>TO600101458</b>	
ADDRESS: <b>1590 Solano Way, Suite A Concord, CA 94520</b>				CONOCOPHILLIPS SITE MANAGER: <b>Bill Rodgers</b>			
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Keith Woodburne</b>				EDF DELIVERABLE TO (RP or Designee): <b>Keith Woodburne</b>			
TELEPHONE: <b>(925)688-2488</b>		FAX: <b>(925)688-0388</b>		PHONE NO.: <b>(925) 688-2488</b>		E-MAIL: <b>kwoodburne@trcsolutions.com</b>	
SAMPLER NAME(S) (Print): <b>Rachelle Dunn</b>		CONSULTANT PROJECT NUMBER: <b>42018701</b>		<b>REQUESTED ANALYSES</b>			
TURNAROUND TIME (CALENDAR DAYS): <input checked="" type="checkbox"/> 14 DAYS <input type="checkbox"/> 7 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS		CHECK BOX IF EDD IS NEEDED <input type="checkbox"/>					

SPECIAL INSTRUCTIONS OR NOTES:

\* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MIBE	8260B - TPHg/BTEX/B Oxygenates	8260B - TPHg/BTEX/B oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MIBE	Lead <input type="checkbox"/> Total <input type="checkbox"/> TLCL <input type="checkbox"/> DTCLP	8015M - TPHg	8260B-BTEX/B oxygenates	Methanol	TEMPERATURE ON RECEIPT C°
		DATE	TIME														
	SB-1 @ 8	1/24	1415	S	1			X									
	SB-1 @ 25.5	↓	1750	S	1			X									
	SB-1 @	↓	1900	W	3			X									
	SB-2 @ 12	1/24	0840	S	1			X									
	SB-2 @ 24	↓	1215	S	1			X									
	SB-2 @	↓	1230	W	3			X									
	SB-3 @ 18	1/25	0910	S	1	X		X									
	SB-3 @			S	1	X		X									
	SB-3 @	1/25	1110	W	6	X		X									
	SB-4 @ 8	↓	1255	S	1			X									

FIELD NOTES:  
Container/Preservative or PID Readings or Laboratory Notes

Relinquished by: (Signature) <i>Rachelle Dunn</i>	Received by: (Signature) <i>Janey B. Smith</i>	Date: <u>012605</u>	Time: <u>1415</u>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <u>012605</u>	Time: <u>1500</u>
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

STL-San Francisco

# ConocoPhillips Chain Of Custody Record

97754

1220 Quarry Lane  
Pleasanton, CA 94566  
(925) 484-1919 (925) 484-1096 fax

**ConocoPhillips Site Manager:**  
**INVOICE REMITTANCE ADDRESS:**  
**2005-01-0746**  
CONOCOPHILLIPS ATTN: Bill Rodgers  
TN 5046  
600 N. Dairy Ashford Road  
Houston, TX 77079-1175

ConocoPhillips Work Order Number  
N/A  
ConocoPhillips Cost Object  
WNO: 1154

DATE: 1/25/05  
PAGE: 2 of 2

SAMPLING COMPANY: <b>TRC</b>		Valid Value ID: <b>TRCC</b>	CONOCOPHILLIPS SITE NUMBER <b>3072</b>		GLOBAL ID NO.: <b>TO600101458</b>
ADDRESS: <b>1590 Solano Way , Suite A Concord, CA 94520</b>			CONOCOPHILLIPS SITE MANAGER: <b>Bill Rodgers</b>		
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Keith Woodburne</b>			EDF DELIVERABLE TO (RP or Designee): <b>Keith Woodburne</b>		PHONE NO.: <b>(925) 688-2488</b>
TELEPHONE: <b>(925)688-2488</b>	FAX: <b>(925)688-0388</b>	E-MAIL: <b>kwoodburne@trcsolutions.com</b>	E-MAIL: <b>kwoodburne@trcsolutions.com</b>		LAB USE ONLY
SAMPLER NAME(S) (Print): <b>Rachelle Dunn</b>		CONSULTANT PROJECT NUMBER: <b>42018701</b>		<b>REQUESTED ANALYSES</b>	

TURNAROUND TIME (CALENDAR DAYS):  
 14 DAYS  
 7 DAYS  
 72 HOURS  
 48 HOURS  
 24 HOURS  
 LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: \_\_\_\_\_  
 CHECK BOX IF EDD IS NEEDED

8015m - TPHd Extractable	8250B - TPHg/BTEX/MBE	8260B - TPHg/BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MBE	Lead <input checked="" type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCCLP	1664 Oil and Grease
		X						
		X						
X	X						X	

**FIELD NOTES:**  
 Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C\* 2

\* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
	SB-4 @ <u>SD</u>	<u>1/25</u>	<u>1920</u>	S	1
	SB-4 @	<u>1</u>	<u>1850</u>	W	3
	Composite	<u>1</u>	<u>1930</u>	S	4

Relinquished by: (Signature) <i>Rachelle Dunn</i>	Received by: (Signature) <i>Keith Woodburne</i>	Date: <u>012605</u>	Time: <u>1415</u>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <u>012605</u>	Time: <u>1500</u>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date:	Time:

**TRC/Alton Geoscience-Concord**

February 15, 2005

1590 Solano Way, Suite A  
Concord, CA 94520

Attn.: Keith Woodburne

Project#: 41050001FA20

Project: Conoco Phillips #3072

Site: 2445 Castro Valley Blvd., Castro Valley

Attached is our report for your samples received on 02/01/2005 16:00

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 03/18/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: [dsharma@stl-inc.com](mailto:dsharma@stl-inc.com)

Sincerely,



Dimple Sharma  
Project Manager



**Total Lead**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-6@10	01/31/2005 11:25	Soil	2
SB-6@50	01/31/2005 17:30	Soil	3

**Total Lead**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>SB-6@10</b>	Lab ID: 2005-02-0090 - 2
Sampled: 01/31/2005 11:25	Extracted: 2/4/2005 11:31
Matrix: Soil	QC Batch#: 2005/02/04-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.4	1.0	mg/Kg	1.00	02/07/2005 10:15	

**Total Lead**

TRC/Alton Geoscience-Concord  
Attn.: Keith Woodburne

1590 Solano Way, Suite A  
Concord, CA 94520  
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20  
Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 3050B	Test(s): 6010B
Sample ID: <b>SB-6@50</b>	Lab ID: 2005-02-0090 - 3
Sampled: 01/31/2005 17:30	Extracted: 2/4/2005 11:31
Matrix: Soil	QC Batch#: 2005/02/04-03.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	4.7	1.0	mg/Kg	1.00	02/07/2005 13:30	

**Total Lead**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 3050B

**Method Blank**

MB: 2005/02/04-03.15-011

**Soil**

Test(s): 6010B

**QC Batch # 2005/02/04-03.15**

Date Extracted: 02/04/2005 11:31

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	02/07/2005 08:42	

**Total Lead**

TRC/Alton Geoscience-Concord  
Attn.: Keith Woodburne

1590 Solano Way, Suite A  
Concord, CA 94520  
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20  
Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 3050B

Test(s): 6010B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/02/04-03.15**

LCS 2005/02/04-03.15-012

Extracted: 02/04/2005

Analyzed: 02/07/2005 08:45

LCSD 2005/02/04-03.15-013

Extracted: 02/04/2005

Analyzed: 02/07/2005 08:48

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	94.1	88.0	100.0	94.1	88.0	6.7	80-120	20		

**Oil & Grease (Total) by EPA 1664A**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-6@10	01/31/2005 11:25	Soil	2
SB-6@50	01/31/2005 17:30	Soil	3

**Oil & Grease (Total) by EPA 1664A**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 1664A	Test(s): 1664A
Sample ID: <b>SB-6@10</b>	Lab ID: 2005-02-0090 - 2
Sampled: 01/31/2005 11:25	Extracted: 2/9/2005 00:00
Matrix: Soil	QC Batch#: 2005/02/09-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	670	50	mg/Kg	1.00	02/09/2005	



**Oil & Grease (Total) by EPA 1664A**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 1664A	Test(s): 1664A
Sample ID: <b>SB-6@50</b>	Lab ID: 2005-02-0090 - 3
Sampled: 01/31/2005 17:30	Extracted: 2/9/2005 00:00
Matrix: Soil	QC Batch#: 2005/02/09-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	1.00	02/09/2005	

**Oil & Grease (Total) by EPA 1664A**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 1664A

**Method Blank**

MB: 2005/02/09-01.23-001

**Soil**

Test(s): 1664A

**QC Batch # 2005/02/09-01.23**

Date Extracted: 02/09/2005

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (total)	ND	50	mg/Kg	02/09/2005	

**Oil & Grease (Total) by EPA 1664A**

TRC/Alton Geoscience-Concord  
Attn.: Keith Woodburne

1590 Solano Way, Suite A  
Concord, CA 94520  
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20  
Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Batch QC Report										
Prep(s): 1664A						Test(s): 1664A				
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2005/02/09-01.23</b>				
LCS	2005/02/09-01.23-002		Extracted: 02/09/2005			Analyzed: 02/09/2005				
LCSD	2005/02/09-01.23-003		Extracted: 02/09/2005			Analyzed: 02/09/2005				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Oil & Grease (total)	752	746	800	94.2	93.3	1.0	79-114	20		

**Diesel**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-5@23	01/31/2005 09:04	Soil	1

**Diesel**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>SB-5@23</b>	Lab ID:	2005-02-0090 - 1
Sampled:	01/31/2005 09:04	Extracted:	2/11/2005 07:29
Matrix:	Soil	QC Batch#:	2005/02/11-2A.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2.1	1.0	mg/Kg	1.00	02/11/2005 17:23	Q2
<b>Surrogate(s)</b> o-Terphenyl	78.2	60-130	%	1.00	02/11/2005 17:23	

**Diesel**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 3550/8015M

**Method Blank**

MB: 2005/02/11-2A.10-001

**Soil**

Test(s): 8015M

**QC Batch # 2005/02/11-2A.10**

Date Extracted: 02/11/2005 07:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	02/11/2005 14:38	
<b>Surrogates(s)</b> o-Terphenyl	76.4	60-130	%	02/11/2005 14:38	

**Diesel**

TRC/Alton Geoscience-Concord  
Attn.: Keith Woodburne

1590 Solano Way, Suite A  
Concord, CA 94520  
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20  
Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 3550/8015M

Test(s): 8015M

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/02/11-2A.10**

LCS 2005/02/11-2A.10-002

Extracted: 02/11/2005

Analyzed: 02/11/2005 16:40

LCSD 2005/02/11-2A.10-003

Extracted: 02/11/2005

Analyzed: 02/11/2005 17:06

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	33.9	33.5	41.2	82.3	81.1	1.5	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	19.0	19.0	20.0	95.1	95.2		60-130			



**Diesel**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Legend and Notes**

**Result Flag**

Q2

Quantit. of unknown hydrocarbon(s) in sample based on diesel.

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-5@23	01/31/2005 09:04	Soil	1

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-5@23</b>	Lab ID: 2005-02-0090 - 1
Sampled: 01/31/2005 09:04	Extracted: 2/11/2005 13:06
Matrix: Soil	QC Batch#: 2005/02/11-1A.66
Analysis Flag: N1 ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
GRO (C6-C12)	ND	1.0	mg/Kg	1.00	02/11/2005 13:06	
Benzene	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
Toluene	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
Total xylenes	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	02/11/2005 13:06	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	02/11/2005 13:06	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
1,2-DCA	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
EDB	ND	0.0050	mg/Kg	1.00	02/11/2005 13:06	
Ethanol	ND	0.1	mg/Kg	1.00	02/11/2005 13:06	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	132.5	72-124	%	1.00	02/11/2005 13:06	S7
Toluene-d8	89.7	75-116	%	1.00	02/11/2005 13:06	

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A  
Concord, CA 94520  
Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20  
Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/02/11-1A.66**

MB: 2005/02/11-1A.66-024

Date Extracted: 02/11/2005 08:24

Compound	Conc.	RL	Unit	Analyzed	Flag
GRO (C6-C12)	ND	1	mg/Kg	02/11/2005 08:24	
Benzene	ND	0.005	mg/Kg	02/11/2005 08:24	
Toluene	ND	0.005	mg/Kg	02/11/2005 08:24	
Ethyl benzene	ND	0.005	mg/Kg	02/11/2005 08:24	
Total xylenes	ND	0.005	mg/Kg	02/11/2005 08:24	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	02/11/2005 08:24	
Methyl tert-butyl ether (MTBE)	ND	0.005	mg/Kg	02/11/2005 08:24	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	02/11/2005 08:24	
Ethyl tert-butyl ether (ETBE)	ND	0.005	mg/Kg	02/11/2005 08:24	
tert-Amyl methyl ether (TAME)	ND	0.005	mg/Kg	02/11/2005 08:24	
1,2-DCA	ND	0.005	mg/Kg	02/11/2005 08:24	
EDB	ND	0.005	mg/Kg	02/11/2005 08:24	
Ethanol	ND	0.100	mg/Kg	02/11/2005 08:24	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	109.0	72-124	%	02/11/2005 08:24	
Toluene-d8	104.6	75-116	%	02/11/2005 08:24	

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/02/11-1A.66**

LCS 2005/02/11-1A.66-001

Extracted: 02/11/2005

Analyzed: 02/11/2005 08:01

LCSD

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0467		0.05	93.4			65-165	20		
Benzene	0.0470		0.05	94.0			69-129	20		
Toluene	0.0574		0.05	114.8			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	517		500	103.4			72-124			
Toluene-d8	501		500	100.2			75-116			

**Gas/BTEX Fuel Oxygenates by 8260B**

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/02/11-1A.66**

SB-5@23 >> MS

Lab ID: 2005-02-0090 - 001

MS: 2005/02/11-1A.66-028

Extracted: 02/11/2005

Analyzed: 02/11/2005 13:28

Dilution: 1.00

MSD: 2005/02/11-1A.66-051

Extracted: 02/11/2005

Analyzed: 02/11/2005 13:51

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0585	0.0588	ND	0.05	117.0	117.6	0.5	65-165	20		
Benzene	0.0569	0.0552	ND	0.05	113.8	110.4	3.0	69-129	20		
Toluene	0.0611	0.0573	ND	0.05	122.2	114.6	6.4	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	567	589		500	113.4	117.8		72-124			
Toluene-d8	485	499		500	97.0	99.8		75-116			

## Gas/BTEX Fuel Oxygenates by 8260B

TRC/Alton Geoscience-Concord

Attn.: Keith Woodburne

1590 Solano Way, Suite A

Concord, CA 94520

Phone: (925) 688-1200 Fax: (925) 688-0388

Project: 41050001FA20

Conoco Phillips #3072

Received: 02/01/2005 16:00

Site: 2445 Castro Valley Blvd., Castro Valley

### Legend and Notes

#### Analysis Flag

N1

Internal standard out of range.

#### Result Flag

S7

Surrogate recoveries higher than acceptance limits.

97927

# ConocoPhillips Chain Of Custody Record

STL-San Francisco  
1220 Quarry Lane  
Pleasanton, CA 94566  
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:  
INVOICE REMITTANCE ADDRESS:  
**2005-02-0090**  
CONOCOPHILLIPS ATTN: Bill Rodgers  
TN 5046  
600 N. Dairy Ashford Road  
Houston, TX 77079-1175

ConocoPhillips Work Order Number  
N/A  
ConocoPhillips Cost Object  
WNO. 1154

DATE: 11/31/05  
PAGE: 1 of 1

SAMPLING COMPANY: <b>TRC</b>		Valid Value ID: <b>TRCC</b>	CONOCOPHILLIPS SITE NUMBER: <b>3072</b>	GLOBAL ID NO.: <b>TO600101458</b>
ADDRESS: <b>1590 Solano Way, Suite A Concord, CA 94520</b>		CONOCOPHILLIPS SITE MANAGER: <b>2445 Castro Valley Blvd., Castro Valley</b>		<b>Bill Rodgers</b>
PROJECT CONTACT (Hardcopy or PDF Report to): <b>Keith Woodburne</b>		EDF DELIVERABLE TO (RP or Designee): <b>Keith Woodburne</b>	PHONE NO.: <b>(925) 688-2488</b>	E-MAIL: <b>kwoodburne@trcsolutions.com</b>
TELEPHONE: <b>(925)688-2488</b>	FAX: <b>(925)688-0388</b>	E-MAIL: <b>kwoodburne@trcsolutions.com</b>	LAB USE ONLY	
SAMPLER NAME(S) (Print): <b>Rachelle Dunn</b>		CONSULTANT PROJECT NUMBER: <b>42018701</b>		

### REQUESTED ANALYSES

TURNAROUND TIME (CALENDAR DAYS):  
 14 DAYS    7 DAYS    72 HOURS    48 HOURS    24 HOURS    LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: \_\_\_\_\_ CHECK BOX IF EDD IS NEEDED

\* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MIBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MIBE	Lead - Ethyl-Ethyl-Ethyl-Ethyl	1664 Oil and Grease
		DATE	TIME											
	SB-5 @ <b>23</b>	<b>1/31</b>	<b>0909</b>	S	1	X	X							
	SB-3 @ _____			S	1	X	X							
	SB-5 @ _____			W	6	X	X							
	SB-6 @ <b>10</b>	<b>1/31</b>	<b>1125</b>	S	1							X	X	
	SB-6 @ <b>50</b>	<b>1/31</b>	<b>1730</b>	S	1							X	X	
	6B-6 @ _____			W	3							X	X	

FIELD NOTES:  
Container/Preservative or PID Readings or Laboratory Notes  
**2°C**  
TEMPERATURE ON RECEIPT °C

3-HCL preserved, 3 Unpreserved

2 amber/ 1 plastic

*Please filter dissolved lead for sample*

Relinquished by: (Signature) <i>Rachelle Dunn</i>	Received by: (Signature) <i>Bill Rodgers</i>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>
Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>

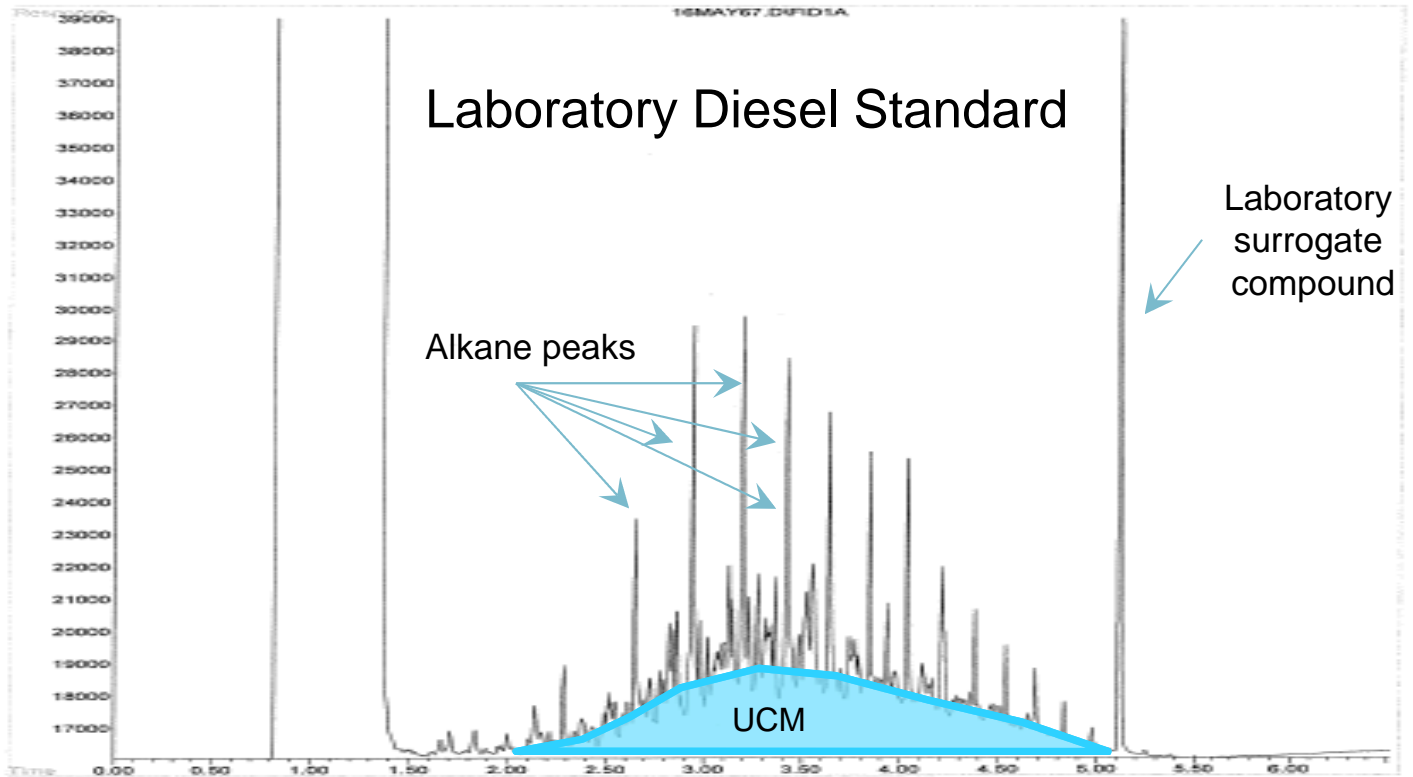
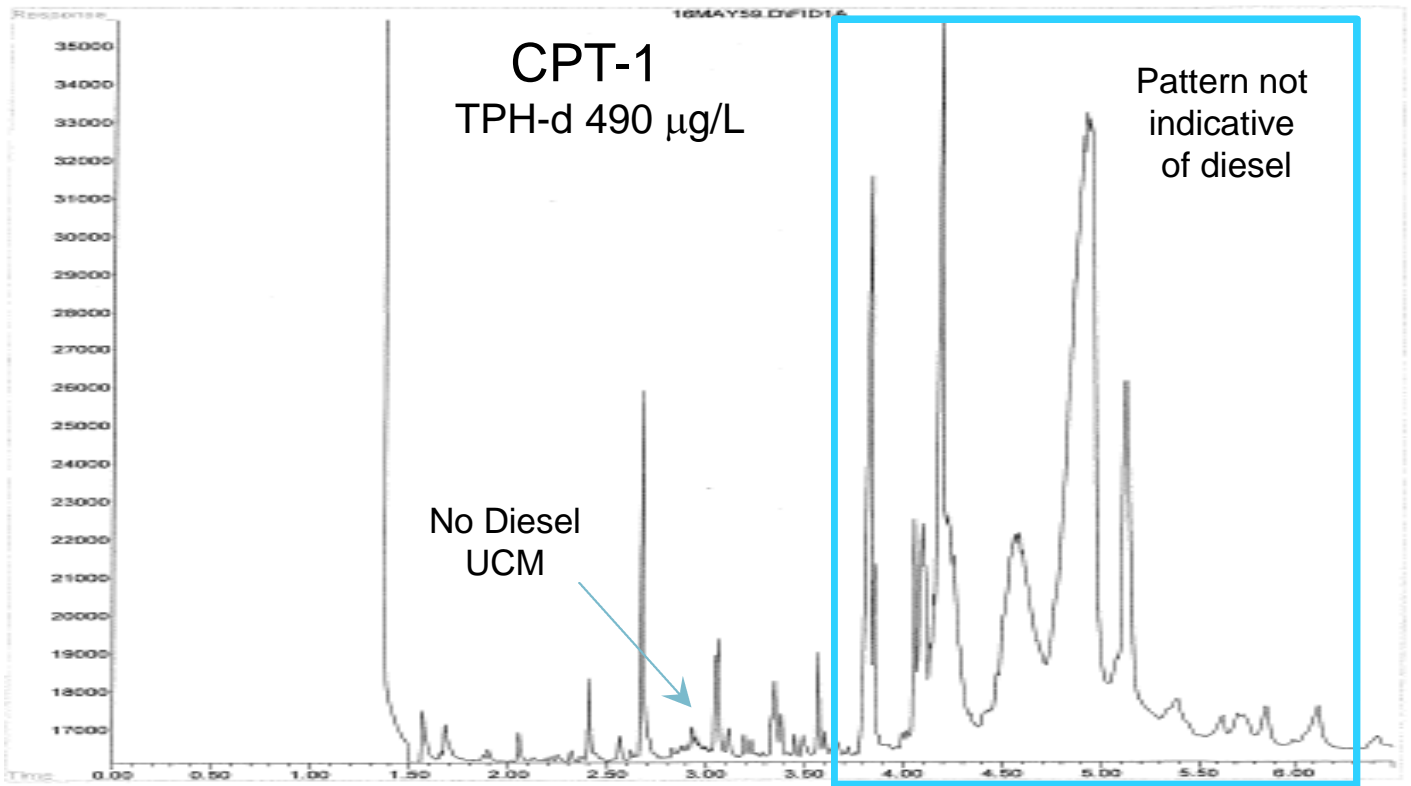
Date: <b>020105</b>	Time: <b>1320</b>
Date: <b>020105</b>	Time: <b>1600</b>
Date:	Time:



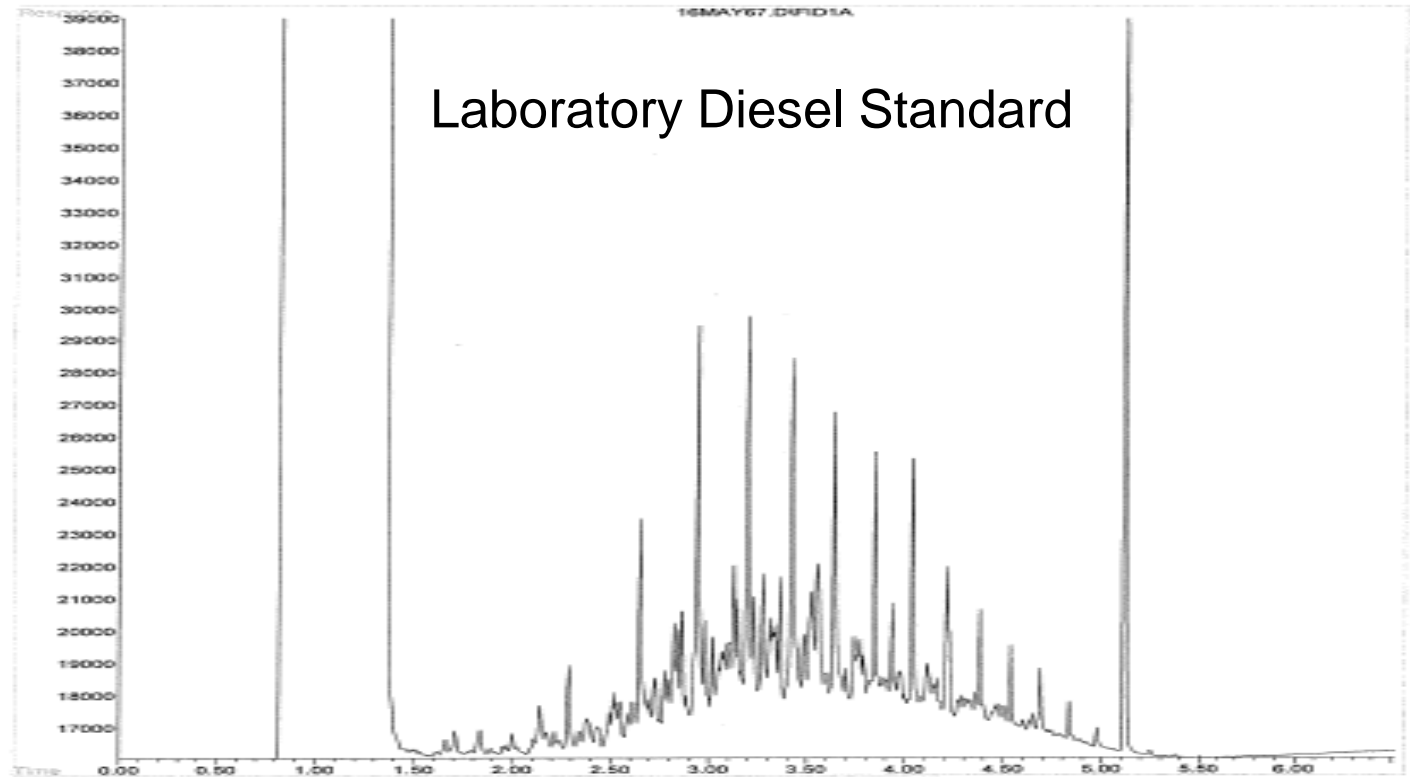
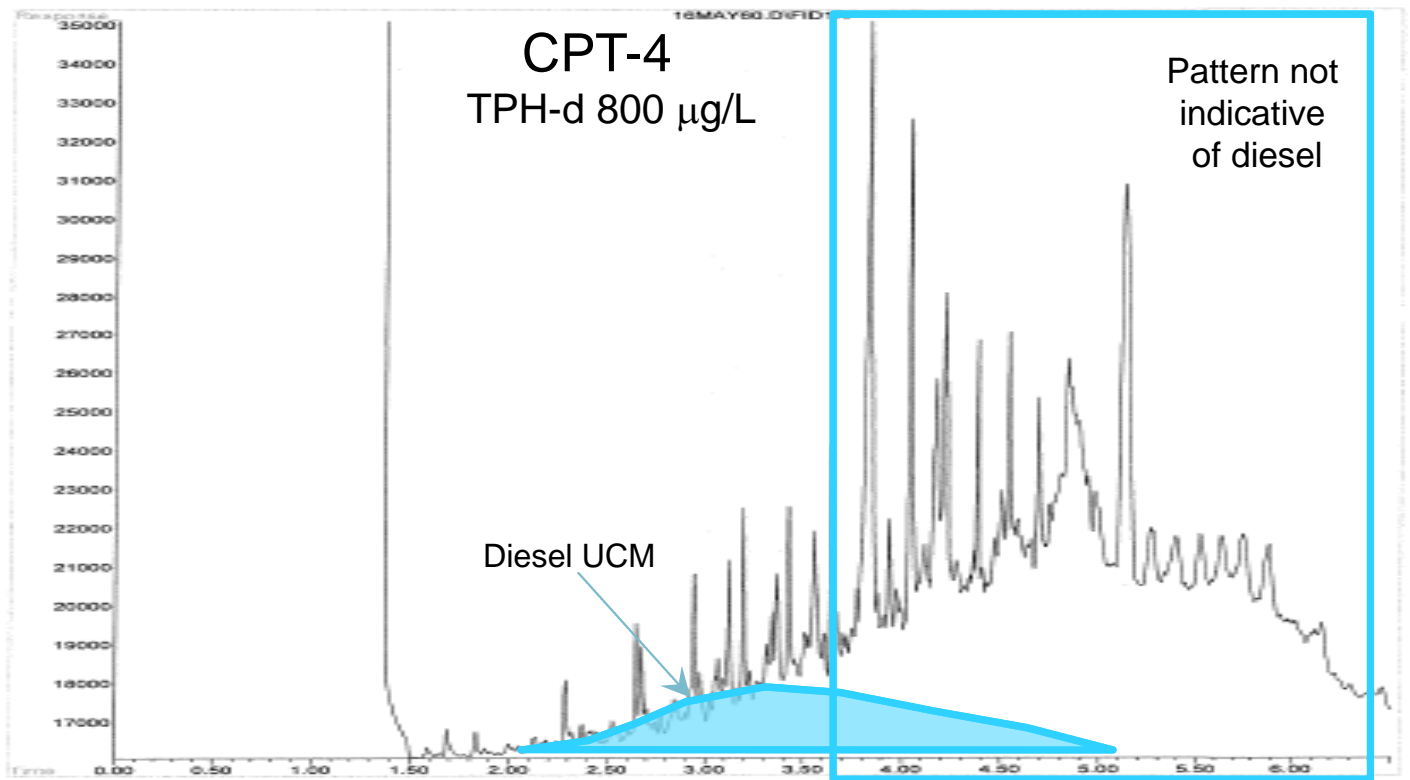


**Appendix B**

# CPT-1 TPH-d Chromatogram



# CPT-4 TPH-d Chromatogram





**Appendix C**









**Photograph #1**

**Description of Photograph:**

Canal at intersection on Castro Valley Boulevard. Looking North toward the boulevard

**Photograph Taken By:**

Dori Baker  
June 14, 2014



**Photograph #2**

**Description of Photograph:**

Canal at intersection on Castro Valley Boulevard. Looking South.

**Photograph Taken By:**

Dori Baker  
June 24

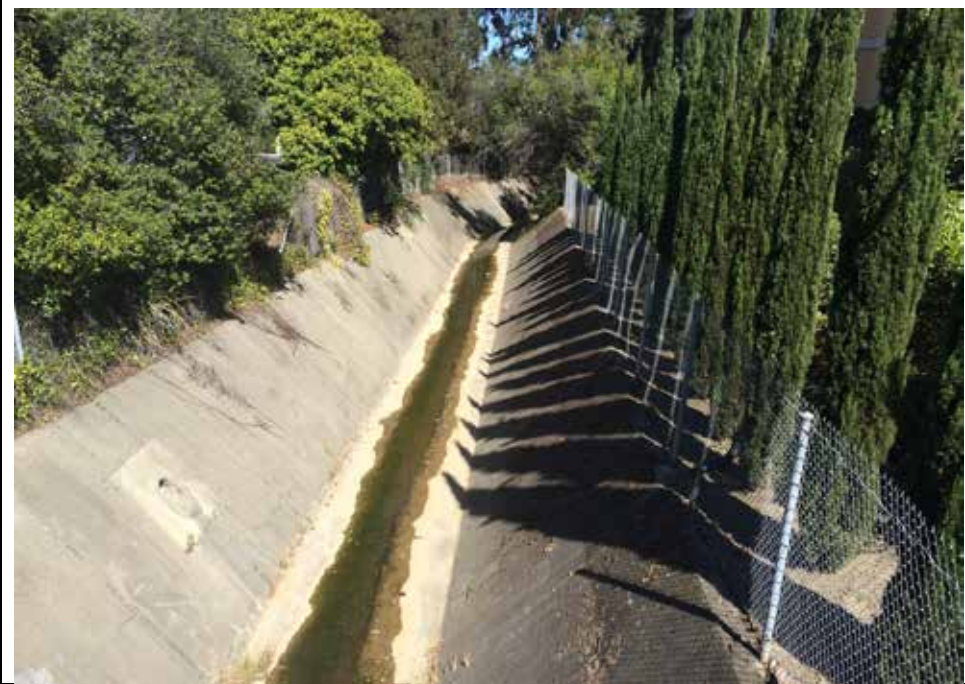


**Photograph #3**

**Description of Photograph:**  
Canal from bridge on private housing complex driveway bridge. Looking North toward Castro Valley Boulevard

**Photograph Taken By:**

Dori Baker  
June 24, 2014



**Photograph #4**

**Description of Photograph:**  
Canal from bridge on private housing complex driveway bridge. Looking South

**Photograph Taken By:**

Dori Baker  
June 24, 2014





**Photograph #5**

**Description of Photograph:**  
Canal from Norbridge Avenue  
Looking North

**Photograph Taken By:**

Dori Baker  
June 24, 2014



**Photograph #6**

**Description of Photograph:**  
Canal from Norbridge Avenue  
Looking North Looking South

**Photograph Taken By:**

Dori Baker  
June 24, 2014



**Photograph #7**



**Description of Photograph:**

Canal exit from under freeway at Strobridge Avenue Looking South

**Photograph Taken By:**

Dori Baker  
June 24, 2014



**Appendix D**

NAME	DATE	PARAMETER	MATRIX	QUALIFIER	RESULT	UNITS	RL NOTE
MW1	8/13/2004	BENZENE	W	ND	0.5	UG/L	
MW1	11/9/2004	BENZENE	W	ND	0.5	UG/L	
MW1	2/16/2005	BENZENE	W	ND	0.5	UG/L	
MW1	5/16/2005	BENZENE	W	ND	0.5	UG/L	
MW1	8/17/2005	BENZENE	W	ND	0	UG/L	
MW1	11/15/2005	BENZENE	W	ND	0	UG/L	
MW1	2/6/2006	BENZENE	W	ND	0	UG/L	
MW1	5/3/2006	BENZENE	W	ND	0	UG/L	
MW1	8/4/2006	BENZENE	W	ND	0	UG/L	
MW1	11/6/2006	BENZENE	W	ND	0	UG/L	
MW1	2/21/2007	BENZENE	W	ND	0	UG/L	
MW1	5/1/2007	BENZENE	W	ND	0	UG/L	
MW1	8/1/2007	BENZENE	W	=	3.02	UG/L	
MW1	10/25/2007	BENZENE	W	ND	0	UG/L	
MW1	1/31/2008	BENZENE	W	ND	0	UG/L	
MW1	5/1/2008	BENZENE	W	ND	0	UG/L	
MW1	7/31/2008	BENZENE	W	ND	0	UG/L	
MW1	11/7/2008	BENZENE	W	ND	0	UG/L	
MW1	1/29/2009	BENZENE	W	<	0.5	UG/L	
MW1	4/15/2009	BENZENE	W	<	0.5	UG/L	
MW1	7/21/2009	BENZENE	W	ND	0	UG/L	
MW1	10/5/2009	BENZENE	W	ND	0	UG/L	
MW1	4/6/2010	BENZENE	W	ND	0	UG/L	
MW1	8/13/2004	TOLUENE	W	=	0.7	UG/L	
MW1	11/9/2004	TOLUENE	W	=	0.9	UG/L	
MW1	2/16/2005	TOLUENE	W	=	1	UG/L	
MW1	5/16/2005	TOLUENE	W	ND	0.5	UG/L	
MW1	8/17/2005	TOLUENE	W	ND	0	UG/L	
MW1	11/15/2005	TOLUENE	W	ND	0	UG/L	
MW1	2/6/2006	TOLUENE	W	ND	0	UG/L	
MW1	5/3/2006	TOLUENE	W	ND	0	UG/L	
MW1	8/4/2006	TOLUENE	W	ND	0	UG/L	
MW1	11/6/2006	TOLUENE	W	ND	0	UG/L	
MW1	2/21/2007	TOLUENE	W	ND	0	UG/L	
MW1	5/1/2007	TOLUENE	W	ND	0	UG/L	
MW1	8/1/2007	TOLUENE	W	=	4.18	UG/L	
MW1	10/25/2007	TOLUENE	W	ND	0	UG/L	
MW1	1/31/2008	TOLUENE	W	ND	0	UG/L	
MW1	5/1/2008	TOLUENE	W	ND	0	UG/L	
MW1	7/31/2008	TOLUENE	W	ND	0	UG/L	
MW1	11/7/2008	TOLUENE	W	ND	0	UG/L	
MW1	1/29/2009	TOLUENE	W	=	0.21	UG/L	
MW1	4/15/2009	TOLUENE	W	<	0.5	UG/L	
MW1	7/21/2009	TOLUENE	W	ND	0	UG/L	
MW1	10/5/2009	TOLUENE	W	ND	0	UG/L	
MW1	4/6/2010	TOLUENE	W	ND	0	UG/L	
MW1	4/15/2009	1,2-DICHLOROETHANE	W	<	0.5	UG/L	
MW1	7/21/2009	1,2-DICHLOROETHANE	W	ND	0	UG/L	
MW1	10/5/2009	1,2-DICHLOROETHANE	W	ND	0	UG/L	
MW1	4/6/2010	1,2-DICHLOROETHANE	W	ND	0	UG/L	
MW1	8/17/2005	DIESEL FUEL #2	W	ND	0	UG/L	
MW1	11/15/2005	DIESEL FUEL #2	W	ND	0	UG/L	
MW1	8/4/2006	DIESEL FUEL #2	W	=	167	UG/L	UN
MW1	11/6/2006	DIESEL FUEL #2	W	ND	0	UG/L	UN
MW1	2/21/2007	DIESEL FUEL #2	W	ND	0	UG/L	UN
MW1	5/1/2007	DIESEL FUEL #2	W	ND	0	UG/L	UN
MW1	10/25/2007	DIESEL FUEL #2	W	ND	0	UG/L	SG
MW1	5/1/2008	DIESEL FUEL #2	W	ND	0	UG/L	SG
MW1	1/29/2009	DIESEL FUEL #2	W	<	50	UG/L	
MW1	4/15/2009	DIESEL FUEL #2	W	<	50	UG/L	
MW1	7/21/2009	DIESEL FUEL #2	W	ND	0	UG/L	
MW1	10/5/2009	DIESEL FUEL #2	W	ND	0	UG/L	
MW1	4/6/2010	DIESEL FUEL #2	W	ND	0	UG/L	
MW1	4/15/2009	DI-ISOPROPYL ETHER (DIPE)	W	<	0.5	UG/L	
MW1	7/21/2009	DI-ISOPROPYL ETHER (DIPE)	W	ND	0	UG/L	

MW1	10/5/2009	DI-ISOPROPYL ETHER (DIPE)	W	ND	0	UG/L	
MW1	4/6/2010	DI-ISOPROPYL ETHER (DIPE)	W	ND	0	UG/L	
MW1	2/6/2006	DIESEL RANGE ORGANICS (C10-C28)	W	=	160	UG/L	FS
MW1	5/3/2006	DIESEL RANGE ORGANICS (C10-C28)	W	=	78	UG/L	SG,PT
MW1	8/1/2007	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW1	1/31/2008	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW1	7/31/2008	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW1	11/7/2008	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW1	8/13/2004	ETHYLBENZENE	W	ND	0.5	UG/L	
MW1	11/9/2004	ETHYLBENZENE	W	ND	0.5	UG/L	
MW1	2/16/2005	ETHYLBENZENE	W	ND	0.5	UG/L	
MW1	5/16/2005	ETHYLBENZENE	W	ND	0.5	UG/L	
MW1	8/17/2005	ETHYLBENZENE	W	ND	0	UG/L	
MW1	11/15/2005	ETHYLBENZENE	W	ND	0	UG/L	
MW1	2/6/2006	ETHYLBENZENE	W	ND	0	UG/L	
MW1	5/3/2006	ETHYLBENZENE	W	ND	0	UG/L	
MW1	8/4/2006	ETHYLBENZENE	W	ND	0	UG/L	
MW1	11/6/2006	ETHYLBENZENE	W	ND	0	UG/L	
MW1	2/21/2007	ETHYLBENZENE	W	ND	0	UG/L	
MW1	5/1/2007	ETHYLBENZENE	W	ND	0	UG/L	
MW1	8/1/2007	ETHYLBENZENE	W	=	0.89	UG/L	
MW1	10/25/2007	ETHYLBENZENE	W	ND	0	UG/L	
MW1	1/31/2008	ETHYLBENZENE	W	ND	0	UG/L	
MW1	5/1/2008	ETHYLBENZENE	W	ND	0	UG/L	
MW1	7/31/2008	ETHYLBENZENE	W	ND	0	UG/L	
MW1	11/7/2008	ETHYLBENZENE	W	ND	0	UG/L	
MW1	1/29/2009	ETHYLBENZENE	W	<	0.5	UG/L	
MW1	4/15/2009	ETHYLBENZENE	W	<	0.5	UG/L	
MW1	7/21/2009	ETHYLBENZENE	W	ND	0	UG/L	
MW1	10/5/2009	ETHYLBENZENE	W	ND	0	UG/L	
MW1	4/6/2010	ETHYLBENZENE	W	ND	0	UG/L	
MW1	4/15/2009	1,2-DIBROMOETHANE	W	<	0.5	UG/L	
MW1	7/21/2009	1,2-DIBROMOETHANE	W	ND	0	UG/L	
MW1	10/5/2009	1,2-DIBROMOETHANE	W	ND	0	UG/L	
MW1	4/6/2010	1,2-DIBROMOETHANE	W	ND	0	UG/L	
MW1	4/15/2009	ETHYL TERT-BUTYL ETHER (ETBE)	W	<	0.5	UG/L	
MW1	7/21/2009	ETHYL TERT-BUTYL ETHER (ETBE)	W	ND	0	UG/L	
MW1	10/5/2009	ETHYL TERT-BUTYL ETHER (ETBE)	W	ND	0	UG/L	
MW1	4/6/2010	ETHYL TERT-BUTYL ETHER (ETBE)	W	ND	0	UG/L	
MW1	4/15/2009	ETHANOL (ETOH)	W	=	22	UG/L	J,DX
MW1	7/21/2009	ETHANOL (ETOH)	W	ND	0	UG/L	
MW1	10/5/2009	ETHANOL (ETOH)	W	ND	0	UG/L	
MW1	4/6/2010	ETHANOL (ETOH)	W	ND	0	UG/L	
MW1	8/17/2005	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW1	11/15/2005	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW1	8/4/2006	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW1	11/6/2006	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW1	2/21/2007	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW1	5/1/2007	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW1	8/1/2007	GASOLINE RANGE ORGANICS	W	=	90.8	UG/L	
MW1	10/25/2007	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW1	5/1/2008	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW1	2/6/2006	GASOLINE RANGE ORGANICS (C4-C12)	W	ND	0	UG/L	
MW1	1/31/2008	GASOLINE RANGE ORGANICS (C4-C12)	W	ND	0	UG/L	
MW1	7/31/2008	GASOLINE RANGE ORGANICS (C4-C12)	W	ND	0	UG/L	
MW1	11/7/2008	GASOLINE RANGE ORGANICS (C4-C12)	W	ND	0	UG/L	
MW1	8/13/2004	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.2	UG/L	
MW1	11/9/2004	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.5	UG/L	
MW1	2/16/2005	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.3	UG/L	
MW1	5/16/2005	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.4	UG/L	
MW1	8/17/2005	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.19	UG/L	
MW1	11/15/2005	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.13	UG/L	
MW1	2/6/2006	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW1	5/3/2006	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW1	8/4/2006	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW1	11/6/2006	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	0.88	UG/L	

MW1	2/21/2007	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	2.42	UG/L	
MW1	5/1/2007	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.4	UG/L	
MW1	8/1/2007	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.54	UG/L	
MW1	10/25/2007	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.63	UG/L	
MW1	1/31/2008	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.8	UG/L	
MW1	5/1/2008	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.67	UG/L	
MW1	7/31/2008	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.7	UG/L	
MW1	11/7/2008	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.4	UG/L	
MW1	1/29/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.6	UG/L	
MW1	4/15/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.6	UG/L	
MW1	7/21/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.2	UG/L	
MW1	10/5/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.1	UG/L	
MW1	4/6/2010	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.1	UG/L	
MW1	8/13/2004	TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL FUEL (TPHD)	W	=	71	UG/L	
MW1	11/9/2004	TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL FUEL (TPHD)	W	=	63	UG/L	
MW1	2/16/2005	TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL FUEL (TPHD)	W	=	78	UG/L	
MW1	5/16/2005	TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL FUEL (TPHD)	W	ND	50	UG/L	
MW1	8/13/2004	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	50	UG/L	
MW1	11/9/2004	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	50	UG/L	
MW1	2/16/2005	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	50	UG/L	
MW1	5/16/2005	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	50	UG/L	
MW1	1/29/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	<	50	UG/L	
MW1	4/15/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	<	50	UG/L	
MW1	7/21/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	0	UG/L	
MW1	10/5/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	0	UG/L	
MW1	4/6/2010	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	0	UG/L	
MW1	4/15/2009	TERT-AMYL METHYL ETHER (TAME)	W	<	0.5	UG/L	
MW1	7/21/2009	TERT-AMYL METHYL ETHER (TAME)	W	ND	0	UG/L	
MW1	10/5/2009	TERT-AMYL METHYL ETHER (TAME)	W	ND	0	UG/L	
MW1	4/6/2010	TERT-AMYL METHYL ETHER (TAME)	W	ND	0	UG/L	
MW1	4/15/2009	TERT-BUTYL ALCOHOL (TBA)	W	=	19	UG/L	
MW1	7/21/2009	TERT-BUTYL ALCOHOL (TBA)	W	ND	0	UG/L	
MW1	10/5/2009	TERT-BUTYL ALCOHOL (TBA)	W	ND	0	UG/L	
MW1	4/6/2010	TERT-BUTYL ALCOHOL (TBA)	W	ND	0	UG/L	
MW1	5/3/2006	TOTAL PETROLEUM HYDROCARBONS (TPH) (C4-C12)	W	ND	0	UG/L	
MW1	8/13/2004	XYLENES	W	=	1	UG/L	
MW1	11/9/2004	XYLENES	W	=	0.9	UG/L	
MW1	2/16/2005	XYLENES	W	=	1.5	UG/L	
MW1	5/16/2005	XYLENES	W	ND	0.5	UG/L	
MW1	8/17/2005	XYLENES	W	ND	0	UG/L	
MW1	11/15/2005	XYLENES	W	ND	0	UG/L	
MW1	2/6/2006	XYLENES	W	ND	0	UG/L	
MW1	5/3/2006	XYLENES	W	ND	0	UG/L	
MW1	8/4/2006	XYLENES	W	ND	0	UG/L	
MW1	11/6/2006	XYLENES	W	ND	0	UG/L	
MW1	2/21/2007	XYLENES	W	ND	0	UG/L	
MW1	5/1/2007	XYLENES	W	ND	0	UG/L	
MW1	8/1/2007	XYLENES	W	=	3.96	UG/L	
MW1	10/25/2007	XYLENES	W	ND	0	UG/L	
MW1	1/31/2008	XYLENES	W	ND	0	UG/L	
MW1	5/1/2008	XYLENES	W	ND	0	UG/L	
MW1	7/31/2008	XYLENES	W	ND	0	UG/L	
MW1	11/7/2008	XYLENES	W	ND	0	UG/L	
MW1	1/29/2009	XYLENES	W	=	0.3	UG/L	
MW1	4/15/2009	XYLENES	W	<	1	UG/L	
MW1	7/21/2009	XYLENES	W	ND	0	UG/L	
MW1	10/5/2009	XYLENES	W	ND	0	UG/L	
MW1	4/6/2010	XYLENES	W	ND	0	UG/L	

NAME	DATE	PARAMETER	MATRIX	QUALIFIER	RESULT	UNITS	RL NOTE
MW2	8/13/2004	BENZENE	W	ND	0.5	UG/L	
MW2	11/9/2004	BENZENE	W	ND	0.5	UG/L	
MW2	2/16/2005	BENZENE	W	ND	0.5	UG/L	
MW2	5/16/2005	BENZENE	W	ND	0.5	UG/L	
MW2	8/17/2005	BENZENE	W	ND	0	UG/L	
MW2	11/15/2005	BENZENE	W	ND	0	UG/L	
MW2	2/6/2006	BENZENE	W	ND	0	UG/L	
MW2	5/3/2006	BENZENE	W	ND	0	UG/L	
MW2	8/4/2006	BENZENE	W	ND	0	UG/L	
MW2	11/6/2006	BENZENE	W	ND	0	UG/L	
MW2	2/21/2007	BENZENE	W	ND	0	UG/L	
MW2	5/1/2007	BENZENE	W	ND	0	UG/L	
MW2	8/1/2007	BENZENE	W	ND	0	UG/L	
MW2	10/25/2007	BENZENE	W	ND	0	UG/L	
MW2	1/31/2008	BENZENE	W	ND	0	UG/L	
MW2	5/1/2008	BENZENE	W	ND	0	UG/L	
MW2	7/31/2008	BENZENE	W	ND	0	UG/L	
MW2	11/7/2008	BENZENE	W	ND	0	UG/L	
MW2	1/29/2009	BENZENE	W	<	0.5	UG/L	
MW2	4/15/2009	BENZENE	W	<	0.5	UG/L	
MW2	7/21/2009	BENZENE	W	ND	0	UG/L	
MW2	10/5/2009	BENZENE	W	ND	0	UG/L	
MW2	4/6/2010	BENZENE	W	ND	0	UG/L	
MW2	8/13/2004	TOLUENE	W	=	0.8	UG/L	
MW2	11/9/2004	TOLUENE	W	=	1.1	UG/L	
MW2	2/16/2005	TOLUENE	W	=	0.9	UG/L	
MW2	5/16/2005	TOLUENE	W	ND	0.5	UG/L	
MW2	8/17/2005	TOLUENE	W	ND	0	UG/L	
MW2	11/15/2005	TOLUENE	W	ND	0	UG/L	
MW2	2/6/2006	TOLUENE	W	ND	0	UG/L	
MW2	5/3/2006	TOLUENE	W	ND	0	UG/L	
MW2	8/4/2006	TOLUENE	W	ND	0	UG/L	
MW2	11/6/2006	TOLUENE	W	ND	0	UG/L	
MW2	2/21/2007	TOLUENE	W	ND	0	UG/L	
MW2	5/1/2007	TOLUENE	W	ND	0	UG/L	
MW2	8/1/2007	TOLUENE	W	ND	0	UG/L	
MW2	10/25/2007	TOLUENE	W	ND	0	UG/L	
MW2	1/31/2008	TOLUENE	W	ND	0	UG/L	
MW2	5/1/2008	TOLUENE	W	ND	0	UG/L	
MW2	7/31/2008	TOLUENE	W	ND	0	UG/L	
MW2	11/7/2008	TOLUENE	W	ND	0	UG/L	
MW2	1/29/2009	TOLUENE	W	<	0.5	UG/L	
MW2	4/15/2009	TOLUENE	W	<	0.5	UG/L	
MW2	7/21/2009	TOLUENE	W	ND	0	UG/L	
MW2	10/5/2009	TOLUENE	W	ND	0	UG/L	
MW2	4/6/2010	TOLUENE	W	ND	0	UG/L	
MW2	4/15/2009	1,2-DICHLOROETHANE	W	<	0.5	UG/L	
MW2	7/21/2009	1,2-DICHLOROETHANE	W	ND	0	UG/L	
MW2	10/5/2009	1,2-DICHLOROETHANE	W	ND	0	UG/L	
MW2	4/6/2010	1,2-DICHLOROETHANE	W	ND	0	UG/L	
MW2	8/17/2005	DIESEL FUEL #2	W	ND	0	UG/L	
MW2	11/15/2005	DIESEL FUEL #2	W	ND	0	UG/L	
MW2	8/4/2006	DIESEL FUEL #2	W	ND	0	UG/L	UN
MW2	11/6/2006	DIESEL FUEL #2	W	ND	0	UG/L	UN
MW2	2/21/2007	DIESEL FUEL #2	W	ND	0	UG/L	UN
MW2	5/1/2007	DIESEL FUEL #2	W	ND	0	UG/L	UN
MW2	10/25/2007	DIESEL FUEL #2	W	ND	0	UG/L	SG
MW2	5/1/2008	DIESEL FUEL #2	W	ND	0	UG/L	SG
MW2	1/29/2009	DIESEL FUEL #2	W	<	50	UG/L	
MW2	4/15/2009	DIESEL FUEL #2	W	<	50	UG/L	
MW2	7/21/2009	DIESEL FUEL #2	W	ND	0	UG/L	
MW2	10/5/2009	DIESEL FUEL #2	W	ND	0	UG/L	
MW2	4/6/2010	DIESEL FUEL #2	W	ND	0	UG/L	
MW2	4/15/2009	DI-ISOPROPYL ETHER (DIPE)	W	<	0.5	UG/L	

MW2	7/21/2009	DI-ISOPROPYL ETHER (DIPE)	W	ND	0	UG/L	
MW2	10/5/2009	DI-ISOPROPYL ETHER (DIPE)	W	ND	0	UG/L	
MW2	4/6/2010	DI-ISOPROPYL ETHER (DIPE)	W	ND	0	UG/L	
MW2	2/6/2006	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	FS
MW2	5/3/2006	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW2	8/1/2007	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW2	1/31/2008	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW2	7/31/2008	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW2	11/7/2008	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW2	8/13/2004	ETHYLBENZENE	W	ND	0.5	UG/L	
MW2	11/9/2004	ETHYLBENZENE	W	ND	0.5	UG/L	
MW2	2/16/2005	ETHYLBENZENE	W	ND	0.5	UG/L	
MW2	5/16/2005	ETHYLBENZENE	W	ND	0.5	UG/L	
MW2	8/17/2005	ETHYLBENZENE	W	ND	0	UG/L	
MW2	11/15/2005	ETHYLBENZENE	W	ND	0	UG/L	
MW2	2/6/2006	ETHYLBENZENE	W	ND	0	UG/L	
MW2	5/3/2006	ETHYLBENZENE	W	ND	0	UG/L	
MW2	8/4/2006	ETHYLBENZENE	W	ND	0	UG/L	
MW2	11/6/2006	ETHYLBENZENE	W	ND	0	UG/L	
MW2	2/21/2007	ETHYLBENZENE	W	ND	0	UG/L	
MW2	5/1/2007	ETHYLBENZENE	W	ND	0	UG/L	
MW2	8/1/2007	ETHYLBENZENE	W	ND	0	UG/L	
MW2	10/25/2007	ETHYLBENZENE	W	ND	0	UG/L	
MW2	1/31/2008	ETHYLBENZENE	W	ND	0	UG/L	
MW2	5/1/2008	ETHYLBENZENE	W	ND	0	UG/L	
MW2	7/31/2008	ETHYLBENZENE	W	ND	0	UG/L	
MW2	11/7/2008	ETHYLBENZENE	W	ND	0	UG/L	
MW2	1/29/2009	ETHYLBENZENE	W	<	0.5	UG/L	
MW2	4/15/2009	ETHYLBENZENE	W	<	0.5	UG/L	
MW2	7/21/2009	ETHYLBENZENE	W	ND	0	UG/L	
MW2	10/5/2009	ETHYLBENZENE	W	ND	0	UG/L	
MW2	4/6/2010	ETHYLBENZENE	W	ND	0	UG/L	
MW2	4/15/2009	1,2-DIBROMOETHANE	W	<	0.5	UG/L	
MW2	7/21/2009	1,2-DIBROMOETHANE	W	ND	0	UG/L	
MW2	10/5/2009	1,2-DIBROMOETHANE	W	ND	0	UG/L	
MW2	4/6/2010	1,2-DIBROMOETHANE	W	ND	0	UG/L	
MW2	4/15/2009	ETHYL TERT-BUTYL ETHER (ETBE)	W	<	0.5	UG/L	
MW2	7/21/2009	ETHYL TERT-BUTYL ETHER (ETBE)	W	ND	0	UG/L	
MW2	10/5/2009	ETHYL TERT-BUTYL ETHER (ETBE)	W	ND	0	UG/L	
MW2	4/6/2010	ETHYL TERT-BUTYL ETHER (ETBE)	W	ND	0	UG/L	
MW2	4/15/2009	ETHANOL (Etoh)	W	<	50	UG/L	
MW2	7/21/2009	ETHANOL (Etoh)	W	ND	0	UG/L	
MW2	10/5/2009	ETHANOL (Etoh)	W	ND	0	UG/L	
MW2	4/6/2010	ETHANOL (Etoh)	W	ND	0	UG/L	
MW2	8/17/2005	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW2	11/15/2005	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW2	8/4/2006	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW2	11/6/2006	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW2	2/21/2007	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW2	5/1/2007	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW2	8/1/2007	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW2	10/25/2007	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW2	5/1/2008	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW2	2/6/2006	GASOLINE RANGE ORGANICS (C4-C12)	W	ND	0	UG/L	
MW2	1/31/2008	GASOLINE RANGE ORGANICS (C4-C12)	W	ND	0	UG/L	
MW2	7/31/2008	GASOLINE RANGE ORGANICS (C4-C12)	W	ND	0	UG/L	
MW2	11/7/2008	GASOLINE RANGE ORGANICS (C4-C12)	W	ND	0	UG/L	
MW2	8/13/2004	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0.5	UG/L	
MW2	11/9/2004	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0.5	UG/L	
MW2	2/16/2005	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0.5	UG/L	
MW2	5/16/2005	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0.5	UG/L	
MW2	8/17/2005	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW2	11/15/2005	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW2	2/6/2006	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW2	5/3/2006	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	



MW2	8/4/2006	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW2	11/6/2006	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW2	2/21/2007	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.7	UG/L	
MW2	5/1/2007	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW2	8/1/2007	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW2	10/25/2007	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW2	1/31/2008	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	0.82	UG/L	
MW2	5/1/2008	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW2	7/31/2008	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW2	11/7/2008	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW2	1/29/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	<	0.5	UG/L	
MW2	4/15/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	0.5	UG/L	J,DX
MW2	7/21/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	0.12	UG/L	J,DX
MW2	10/5/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	0.14	UG/L	J,DX
MW2	4/6/2010	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	0.53	UG/L	
MW2	8/13/2004	TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL FUEL (TPHD)	W	=	57	UG/L	
MW2	11/9/2004	TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL FUEL (TPHD)	W	ND	50	UG/L	
MW2	2/16/2005	TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL FUEL (TPHD)	W	=	55	UG/L	
MW2	5/16/2005	TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL FUEL (TPHD)	W	ND	50	UG/L	
MW2	8/13/2004	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	50	UG/L	
MW2	11/9/2004	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	50	UG/L	
MW2	2/16/2005	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	50	UG/L	
MW2	5/16/2005	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	50	UG/L	
MW2	1/29/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	<	50	UG/L	
MW2	4/15/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	<	50	UG/L	
MW2	7/21/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	0	UG/L	
MW2	10/5/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	0	UG/L	
MW2	4/6/2010	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	0	UG/L	
MW2	4/15/2009	TERT-AMYL METHYL ETHER (TAME)	W	<	0.5	UG/L	
MW2	7/21/2009	TERT-AMYL METHYL ETHER (TAME)	W	ND	0	UG/L	
MW2	10/5/2009	TERT-AMYL METHYL ETHER (TAME)	W	ND	0	UG/L	
MW2	4/6/2010	TERT-AMYL METHYL ETHER (TAME)	W	ND	0	UG/L	
MW2	4/15/2009	TERT-BUTYL ALCOHOL (TBA)	W	=	6.5	UG/L	J,DX
MW2	7/21/2009	TERT-BUTYL ALCOHOL (TBA)	W	ND	0	UG/L	
MW2	10/5/2009	TERT-BUTYL ALCOHOL (TBA)	W	ND	0	UG/L	
MW2	4/6/2010	TERT-BUTYL ALCOHOL (TBA)	W	ND	0	UG/L	
MW2	5/3/2006	TOTAL PETROLEUM HYDROCARBONS (TPH) (C4-C12)	W	ND	0	UG/L	
MW2	8/13/2004	XYLENES	W	=	1	UG/L	
MW2	11/9/2004	XYLENES	W	=	1.2	UG/L	
MW2	2/16/2005	XYLENES	W	=	1.4	UG/L	
MW2	5/16/2005	XYLENES	W	ND	0.5	UG/L	
MW2	8/17/2005	XYLENES	W	ND	0	UG/L	
MW2	11/15/2005	XYLENES	W	ND	0	UG/L	
MW2	2/6/2006	XYLENES	W	ND	0	UG/L	
MW2	5/3/2006	XYLENES	W	ND	0	UG/L	
MW2	8/4/2006	XYLENES	W	ND	0	UG/L	
MW2	11/6/2006	XYLENES	W	ND	0	UG/L	
MW2	2/21/2007	XYLENES	W	ND	0	UG/L	
MW2	5/1/2007	XYLENES	W	ND	0	UG/L	
MW2	8/1/2007	XYLENES	W	ND	0	UG/L	
MW2	10/25/2007	XYLENES	W	ND	0	UG/L	
MW2	1/31/2008	XYLENES	W	ND	0	UG/L	
MW2	5/1/2008	XYLENES	W	ND	0	UG/L	
MW2	7/31/2008	XYLENES	W	ND	0	UG/L	
MW2	11/7/2008	XYLENES	W	ND	0	UG/L	
MW2	1/29/2009	XYLENES	W	<	1	UG/L	
MW2	4/15/2009	XYLENES	W	<	1	UG/L	
MW2	7/21/2009	XYLENES	W	ND	0	UG/L	
MW2	10/5/2009	XYLENES	W	ND	0	UG/L	
MW2	4/6/2010	XYLENES	W	ND	0	UG/L	

NAME	DATE	PARAMETER	MATRIX	QUALIFIER	RESULT	UNITS	RL NOTE
MW4	8/13/2004	BENZENE	W	ND	0.5	UG/L	
MW4	11/9/2004	BENZENE	W	ND	0.5	UG/L	
MW4	2/16/2005	BENZENE	W	ND	0.5	UG/L	
MW4	5/16/2005	BENZENE	W	ND	0.5	UG/L	
MW4	8/17/2005	BENZENE	W	ND	0	UG/L	
MW4	11/15/2005	BENZENE	W	ND	0	UG/L	
MW4	2/6/2006	BENZENE	W	ND	0	UG/L	
MW4	5/3/2006	BENZENE	W	ND	0	UG/L	
MW4	8/4/2006	BENZENE	W	ND	0	UG/L	
MW4	11/6/2006	BENZENE	W	ND	0	UG/L	
MW4	2/21/2007	BENZENE	W	ND	0	UG/L	
MW4	5/1/2007	BENZENE	W	ND	0	UG/L	
MW4	8/1/2007	BENZENE	W	=	0.85	UG/L	
MW4	10/25/2007	BENZENE	W	ND	0	UG/L	
MW4	1/31/2008	BENZENE	W	ND	0	UG/L	
MW4	5/1/2008	BENZENE	W	ND	0	UG/L	
MW4	7/31/2008	BENZENE	W	ND	0	UG/L	
MW4	11/7/2008	BENZENE	W	ND	0	UG/L	
MW4	1/29/2009	BENZENE	W	<	0.5	UG/L	
MW4	4/15/2009	BENZENE	W	<	0.5	UG/L	
MW4	7/21/2009	BENZENE	W	ND	0	UG/L	
MW4	10/5/2009	BENZENE	W	ND	0	UG/L	
MW4	4/6/2010	BENZENE	W	ND	0	UG/L	
MW4	8/13/2004	TOLUENE	W	=	0.8	UG/L	
MW4	11/9/2004	TOLUENE	W	=	2.3	UG/L	
MW4	2/16/2005	TOLUENE	W	=	1.1	UG/L	
MW4	5/16/2005	TOLUENE	W	ND	0.5	UG/L	
MW4	8/17/2005	TOLUENE	W	ND	0	UG/L	
MW4	11/15/2005	TOLUENE	W	ND	0	UG/L	
MW4	2/6/2006	TOLUENE	W	ND	0	UG/L	
MW4	5/3/2006	TOLUENE	W	ND	0	UG/L	
MW4	8/4/2006	TOLUENE	W	ND	0	UG/L	
MW4	11/6/2006	TOLUENE	W	ND	0	UG/L	
MW4	2/21/2007	TOLUENE	W	ND	0	UG/L	
MW4	5/1/2007	TOLUENE	W	ND	0	UG/L	
MW4	8/1/2007	TOLUENE	W	ND	0	UG/L	
MW4	10/25/2007	TOLUENE	W	ND	0	UG/L	
MW4	1/31/2008	TOLUENE	W	ND	0	UG/L	
MW4	5/1/2008	TOLUENE	W	ND	0	UG/L	
MW4	7/31/2008	TOLUENE	W	ND	0	UG/L	
MW4	11/7/2008	TOLUENE	W	ND	0	UG/L	
MW4	1/29/2009	TOLUENE	W	=	0.19	UG/L	
MW4	4/15/2009	TOLUENE	W	<	0.5	UG/L	
MW4	7/21/2009	TOLUENE	W	ND	0	UG/L	
MW4	10/5/2009	TOLUENE	W	ND	0	UG/L	
MW4	4/6/2010	TOLUENE	W	ND	0	UG/L	
MW4	4/15/2009	1,2-DICHLOROETHANE	W	<	0.5	UG/L	
MW4	7/21/2009	1,2-DICHLOROETHANE	W	ND	0	UG/L	
MW4	10/5/2009	1,2-DICHLOROETHANE	W	ND	0	UG/L	
MW4	4/6/2010	1,2-DICHLOROETHANE	W	ND	0	UG/L	
MW4	8/17/2005	DIESEL FUEL #2	W	ND	0	UG/L	
MW4	11/15/2005	DIESEL FUEL #2	W	ND	0	UG/L	
MW4	8/4/2006	DIESEL FUEL #2	W	=	52.7	UG/L	UN
MW4	11/6/2006	DIESEL FUEL #2	W	ND	0	UG/L	UN
MW4	2/21/2007	DIESEL FUEL #2	W	ND	0	UG/L	UN
MW4	5/1/2007	DIESEL FUEL #2	W	ND	0	UG/L	UN
MW4	10/25/2007	DIESEL FUEL #2	W	ND	0	UG/L	SG
MW4	5/1/2008	DIESEL FUEL #2	W	ND	0	UG/L	SG
MW4	1/29/2009	DIESEL FUEL #2	W	<	50	UG/L	
MW4	4/15/2009	DIESEL FUEL #2	W	<	50	UG/L	
MW4	7/21/2009	DIESEL FUEL #2	W	ND	0	UG/L	
MW4	10/5/2009	DIESEL FUEL #2	W	ND	0	UG/L	
MW4	4/6/2010	DIESEL FUEL #2	W	ND	0	UG/L	
MW4	4/15/2009	DI-ISOPROPYL ETHER (DIPE)	W	<	0.5	UG/L	

MW4	7/21/2009	DI-ISOPROPYL ETHER (DIPE)	W	ND	0	UG/L	
MW4	10/5/2009	DI-ISOPROPYL ETHER (DIPE)	W	ND	0	UG/L	
MW4	4/6/2010	DI-ISOPROPYL ETHER (DIPE)	W	ND	0	UG/L	
MW4	2/6/2006	DIESEL RANGE ORGANICS (C10-C28)	W	=	85.2	UG/L	FS
MW4	5/3/2006	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW4	8/1/2007	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW4	1/31/2008	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW4	7/31/2008	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW4	11/7/2008	DIESEL RANGE ORGANICS (C10-C28)	W	ND	0	UG/L	SG
MW4	8/13/2004	ETHYLBENZENE	W	ND	0.5	UG/L	
MW4	11/9/2004	ETHYLBENZENE	W	=	0.7	UG/L	
MW4	2/16/2005	ETHYLBENZENE	W	ND	0.5	UG/L	
MW4	5/16/2005	ETHYLBENZENE	W	ND	0.5	UG/L	
MW4	8/17/2005	ETHYLBENZENE	W	ND	0	UG/L	
MW4	11/15/2005	ETHYLBENZENE	W	ND	0	UG/L	
MW4	2/6/2006	ETHYLBENZENE	W	ND	0	UG/L	
MW4	5/3/2006	ETHYLBENZENE	W	ND	0	UG/L	
MW4	8/4/2006	ETHYLBENZENE	W	ND	0	UG/L	
MW4	11/6/2006	ETHYLBENZENE	W	ND	0	UG/L	
MW4	2/21/2007	ETHYLBENZENE	W	ND	0	UG/L	
MW4	5/1/2007	ETHYLBENZENE	W	ND	0	UG/L	
MW4	8/1/2007	ETHYLBENZENE	W	ND	0	UG/L	
MW4	10/25/2007	ETHYLBENZENE	W	ND	0	UG/L	
MW4	1/31/2008	ETHYLBENZENE	W	ND	0	UG/L	
MW4	5/1/2008	ETHYLBENZENE	W	ND	0	UG/L	
MW4	7/31/2008	ETHYLBENZENE	W	ND	0	UG/L	
MW4	11/7/2008	ETHYLBENZENE	W	ND	0	UG/L	
MW4	1/29/2009	ETHYLBENZENE	W	<	0.5	UG/L	
MW4	4/15/2009	ETHYLBENZENE	W	<	0.5	UG/L	
MW4	7/21/2009	ETHYLBENZENE	W	ND	0	UG/L	
MW4	10/5/2009	ETHYLBENZENE	W	ND	0	UG/L	
MW4	4/6/2010	ETHYLBENZENE	W	ND	0	UG/L	
MW4	4/15/2009	1,2-DIBROMOETHANE	W	<	0.5	UG/L	
MW4	7/21/2009	1,2-DIBROMOETHANE	W	ND	0	UG/L	
MW4	10/5/2009	1,2-DIBROMOETHANE	W	ND	0	UG/L	
MW4	4/6/2010	1,2-DIBROMOETHANE	W	ND	0	UG/L	
MW4	4/15/2009	ETHYL TERT-BUTYL ETHER (ETBE)	W	<	0.5	UG/L	
MW4	7/21/2009	ETHYL TERT-BUTYL ETHER (ETBE)	W	ND	0	UG/L	
MW4	10/5/2009	ETHYL TERT-BUTYL ETHER (ETBE)	W	ND	0	UG/L	
MW4	4/6/2010	ETHYL TERT-BUTYL ETHER (ETBE)	W	ND	0	UG/L	
MW4	4/15/2009	ETHANOL (ETOH)	W	<	50	UG/L	
MW4	7/21/2009	ETHANOL (ETOH)	W	ND	0	UG/L	
MW4	10/5/2009	ETHANOL (ETOH)	W	ND	0	UG/L	
MW4	4/6/2010	ETHANOL (ETOH)	W	ND	0	UG/L	
MW4	8/17/2005	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW4	11/15/2005	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW4	8/4/2006	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW4	11/6/2006	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW4	2/21/2007	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW4	5/1/2007	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW4	8/1/2007	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW4	10/25/2007	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW4	5/1/2008	GASOLINE RANGE ORGANICS	W	ND	0	UG/L	
MW4	2/6/2006	GASOLINE RANGE ORGANICS (C4-C12)	W	ND	0	UG/L	
MW4	1/31/2008	GASOLINE RANGE ORGANICS (C4-C12)	W	ND	0	UG/L	
MW4	7/31/2008	GASOLINE RANGE ORGANICS (C4-C12)	W	ND	0	UG/L	
MW4	11/7/2008	GASOLINE RANGE ORGANICS (C4-C12)	W	ND	0	UG/L	
MW4	8/13/2004	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	2.8	UG/L	
MW4	11/9/2004	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	2.1	UG/L	
MW4	2/16/2005	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0.5	UG/L	
MW4	5/16/2005	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0.5	UG/L	
MW4	8/17/2005	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	1.03	UG/L	
MW4	11/15/2005	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	0.73	UG/L	
MW4	2/6/2006	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW4	5/3/2006	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	

MW4	8/4/2006	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW4	11/6/2006	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW4	2/21/2007	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW4	5/1/2007	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW4	8/1/2007	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	0.87	UG/L	
MW4	10/25/2007	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW4	1/31/2008	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW4	5/1/2008	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW4	7/31/2008	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW4	11/7/2008	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW4	1/29/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	<	0.5	UG/L	
MW4	4/15/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	0.15	UG/L	J,DX
MW4	7/21/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	0.16	UG/L	J,DX
MW4	10/5/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	0.18	UG/L	J,DX
MW4	4/6/2010	METHYL-TERT-BUTYL ETHER (MTBE)	W	ND	0	UG/L	
MW4	8/13/2004	TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL FUEL (TPHD)	W	=	72	UG/L	
MW4	11/9/2004	TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL FUEL (TPHD)	W	ND	50	UG/L	
MW4	2/16/2005	TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL FUEL (TPHD)	W	ND	50	UG/L	
MW4	5/16/2005	TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL FUEL (TPHD)	W	ND	50	UG/L	
MW4	8/13/2004	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	50	UG/L	
MW4	11/9/2004	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	50	UG/L	
MW4	2/16/2005	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	50	UG/L	
MW4	5/16/2005	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	50	UG/L	
MW4	1/29/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	<	50	UG/L	
MW4	4/15/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	<	50	UG/L	
MW4	7/21/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	0	UG/L	
MW4	10/5/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	0	UG/L	
MW4	4/6/2010	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	0	UG/L	
MW4	4/15/2009	TERT-AMYL METHYL ETHER (TAME)	W	<	0.5	UG/L	
MW4	7/21/2009	TERT-AMYL METHYL ETHER (TAME)	W	ND	0	UG/L	
MW4	10/5/2009	TERT-AMYL METHYL ETHER (TAME)	W	ND	0	UG/L	
MW4	4/6/2010	TERT-AMYL METHYL ETHER (TAME)	W	ND	0	UG/L	
MW4	4/15/2009	TERT-BUTYL ALCOHOL (TBA)	W	<	10	UG/L	
MW4	7/21/2009	TERT-BUTYL ALCOHOL (TBA)	W	ND	0	UG/L	
MW4	10/5/2009	TERT-BUTYL ALCOHOL (TBA)	W	ND	0	UG/L	
MW4	4/6/2010	TERT-BUTYL ALCOHOL (TBA)	W	ND	0	UG/L	
MW4	5/3/2006	TOTAL PETROLEUM HYDROCARBONS (TPH) (C4-C12)	W	ND	0	UG/L	
MW4	8/13/2004	XYLENES	W	=	1.1	UG/L	
MW4	11/9/2004	XYLENES	W	=	1.5	UG/L	
MW4	2/16/2005	XYLENES	W	=	1.7	UG/L	
MW4	5/16/2005	XYLENES	W	ND	0.5	UG/L	
MW4	8/17/2005	XYLENES	W	ND	0	UG/L	
MW4	11/15/2005	XYLENES	W	ND	0	UG/L	
MW4	2/6/2006	XYLENES	W	ND	0	UG/L	
MW4	5/3/2006	XYLENES	W	ND	0	UG/L	
MW4	8/4/2006	XYLENES	W	ND	0	UG/L	
MW4	11/6/2006	XYLENES	W	ND	0	UG/L	
MW4	2/21/2007	XYLENES	W	ND	0	UG/L	
MW4	5/1/2007	XYLENES	W	ND	0	UG/L	
MW4	8/1/2007	XYLENES	W	=	0.97	UG/L	
MW4	10/25/2007	XYLENES	W	ND	0	UG/L	
MW4	1/31/2008	XYLENES	W	ND	0	UG/L	
MW4	5/1/2008	XYLENES	W	ND	0	UG/L	
MW4	7/31/2008	XYLENES	W	ND	0	UG/L	
MW4	11/7/2008	XYLENES	W	ND	0	UG/L	
MW4	1/29/2009	XYLENES	W	<	1	UG/L	
MW4	4/15/2009	XYLENES	W	<	1	UG/L	
MW4	7/21/2009	XYLENES	W	ND	0	UG/L	
MW4	10/5/2009	XYLENES	W	ND	0	UG/L	
MW4	4/6/2010	XYLENES	W	ND	0	UG/L	

NAME	DATE	PARAMETER	MATRIX	QUALIFIER	RESULT	UNITS	RL NOTE
MW5	3/4/2009	BENZENE	W	<	0.5	UG/L	
MW5	4/15/2009	BENZENE	W	<	0.5	UG/L	
MW5	7/21/2009	BENZENE	W	ND	0	UG/L	
MW5	10/5/2009	BENZENE	W	ND	0	UG/L	
MW5	4/6/2010	BENZENE	W	ND	0	UG/L	
MW5	3/4/2009	TOLUENE	W	<	0.5	UG/L	
MW5	4/15/2009	TOLUENE	W	<	0.5	UG/L	
MW5	7/21/2009	TOLUENE	W	ND	0	UG/L	
MW5	10/5/2009	TOLUENE	W	ND	0	UG/L	
MW5	4/6/2010	TOLUENE	W	=	0.23	UG/L	J,DX
MW5	3/4/2009	1,2-DICHLOROETHANE	W	<	0.5	UG/L	
MW5	4/15/2009	1,2-DICHLOROETHANE	W	<	0.5	UG/L	
MW5	7/21/2009	1,2-DICHLOROETHANE	W	ND	0	UG/L	
MW5	10/5/2009	1,2-DICHLOROETHANE	W	ND	0	UG/L	
MW5	4/6/2010	1,2-DICHLOROETHANE	W	ND	0	UG/L	
MW5	4/15/2009	DIESEL FUEL #2	W	<	50	UG/L	
MW5	7/21/2009	DIESEL FUEL #2	W	ND	0	UG/L	
MW5	10/5/2009	DIESEL FUEL #2	W	ND	0	UG/L	
MW5	4/6/2010	DIESEL FUEL #2	W	ND	0	UG/L	
MW5	3/4/2009	DI-ISOPROPYL ETHER (DIPE)	W	<	0.5	UG/L	
MW5	4/15/2009	DI-ISOPROPYL ETHER (DIPE)	W	<	0.5	UG/L	
MW5	7/21/2009	DI-ISOPROPYL ETHER (DIPE)	W	ND	0	UG/L	
MW5	10/5/2009	DI-ISOPROPYL ETHER (DIPE)	W	ND	0	UG/L	
MW5	4/6/2010	DI-ISOPROPYL ETHER (DIPE)	W	ND	0	UG/L	
MW5	3/4/2009	ETHYLBENZENE	W	<	0.5	UG/L	
MW5	4/15/2009	ETHYLBENZENE	W	<	0.5	UG/L	
MW5	7/21/2009	ETHYLBENZENE	W	ND	0	UG/L	
MW5	10/5/2009	ETHYLBENZENE	W	ND	0	UG/L	
MW5	4/6/2010	ETHYLBENZENE	W	ND	0	UG/L	
MW5	3/4/2009	1,2-DIBROMOETHANE	W	<	0.5	UG/L	
MW5	4/15/2009	1,2-DIBROMOETHANE	W	<	0.5	UG/L	
MW5	7/21/2009	1,2-DIBROMOETHANE	W	ND	0	UG/L	
MW5	10/5/2009	1,2-DIBROMOETHANE	W	ND	0	UG/L	
MW5	4/6/2010	1,2-DIBROMOETHANE	W	ND	0	UG/L	
MW5	3/4/2009	ETHYL TERT-BUTYL ETHER (ETBE)	W	<	0.5	UG/L	
MW5	4/15/2009	ETHYL TERT-BUTYL ETHER (ETBE)	W	<	0.5	UG/L	
MW5	7/21/2009	ETHYL TERT-BUTYL ETHER (ETBE)	W	ND	0	UG/L	
MW5	10/5/2009	ETHYL TERT-BUTYL ETHER (ETBE)	W	ND	0	UG/L	
MW5	4/6/2010	ETHYL TERT-BUTYL ETHER (ETBE)	W	ND	0	UG/L	
MW5	3/4/2009	ETHANOL (ETOH)	W	<	50	UG/L	
MW5	4/15/2009	ETHANOL (ETOH)	W	=	24	UG/L	J,DX
MW5	7/21/2009	ETHANOL (ETOH)	W	ND	0	UG/L	
MW5	10/5/2009	ETHANOL (ETOH)	W	ND	0	UG/L	
MW5	4/6/2010	ETHANOL (ETOH)	W	ND	0	UG/L	
MW5	3/4/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	10	UG/L	
MW5	4/15/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	9.3	UG/L	
MW5	7/21/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	7	UG/L	
MW5	10/5/2009	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	8.2	UG/L	
MW5	4/6/2010	METHYL-TERT-BUTYL ETHER (MTBE)	W	=	11	UG/L	
MW5	3/4/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	=	150	UG/L	
MW5	4/15/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	<	50	UG/L	
MW5	7/21/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	0	UG/L	
MW5	10/5/2009	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	0	UG/L	
MW5	4/6/2010	TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE (TPHG)	W	ND	0	UG/L	
MW5	3/4/2009	TERT-AMYL METHYL ETHER (TAME)	W	<	0.5	UG/L	
MW5	4/15/2009	TERT-AMYL METHYL ETHER (TAME)	W	<	0.5	UG/L	
MW5	7/21/2009	TERT-AMYL METHYL ETHER (TAME)	W	ND	0	UG/L	
MW5	10/5/2009	TERT-AMYL METHYL ETHER (TAME)	W	ND	0	UG/L	
MW5	4/6/2010	TERT-AMYL METHYL ETHER (TAME)	W	ND	0	UG/L	
MW5	3/4/2009	TERT-BUTYL ALCOHOL (TBA)	W	<	10	UG/L	
MW5	4/15/2009	TERT-BUTYL ALCOHOL (TBA)	W	<	10	UG/L	
MW5	7/21/2009	TERT-BUTYL ALCOHOL (TBA)	W	ND	0	UG/L	
MW5	10/5/2009	TERT-BUTYL ALCOHOL (TBA)	W	ND	0	UG/L	

MW5	4/6/2010	TERT-BUTYL ALCOHOL (TBA)	W	ND	0	UG/L	
MW5	3/4/2009	XYLENES	W	<	1	UG/L	
MW5	4/15/2009	XYLENES	W	<	1	UG/L	
MW5	7/21/2009	XYLENES	W	ND	0	UG/L	
MW5	10/5/2009	XYLENES	W	ND	0	UG/L	
MW5	4/6/2010	XYLENES	W	ND	0	UG/L	