

Antea USA, Inc. 11050 White Rock Road, Suite 110 Rancho Cordova, CA 95670 USA www.anteagroup.com

August 14, 2012

Mr. George Lockwood State Water Resources Control Board Underground Storage Tank Program 1001 | Street, 15<sup>th</sup> Floor Sacramento, CA 95812

Re:

Case Closure Petition Unocal No. 6277 15803 E 14<sup>th</sup> Street San Leandro, California Case No. RO00029696 ONBONOF MATER QUALTY

Dear Mr. Lockwood,

Antea Group has prepared this Case Closure Petition to document historical activities at the site, current site conditions, and petroleum hydrocarbon degradation timeframes to provide sufficient information for closure of the site. Attenuation of soil and groundwater at the site has occurred. The enclosed documentation has been provided to support that the residual impacts at the site present no risk to human health or the environment and the contaminant concentrations are expected to meet basin water quality objectives within a reasonable timeframe.

Antea Group submitted a request for regulatory closure for the site to the Alameda County Health Care Services Agency (ACHCSA) on May 30, 2012. To date, Antea Group has not received a response from the ACHCSA as to the status of case closure.

Antea Group is petitioning the closure of this site to the State of California Water Resources Control Board on behalf of the responsible party and petitioner listed below and requests that you review the enclosed information and reconsider closure for the site.

Responsible Party/Petitioner:

ConocoPhillips Company Attn: Louis S. Mosconi

3900 Kilroy Airport Way, Suite 210

Long Beach, CA 90806 (562) 290-1721

Ella Coelho Trust Coelho Gas LLC

18616 Highway 33E Dos Palos, CA 93620

Upon receipt of site closure, Antea Group will initiate the removal of existing site monitoring wells as required and final report documenting removal of the monitoring wells will be submitted. If you have any questions regarding the contents of this Case Closure Petition or require additional information prior to closure, please do not hesitate to contact me at

Sincerely,

**ANTEA GROUP** 

(916) 503-1261.

Dennis S. Dettloff, P.G.

Project Manager

Dennis.dettloff@anteagroup.com

Antea Group



76 Service Station No. 6277

Property owner information

Site:

Parcel #: 80C-500-7

15803 E 14<sup>th</sup> Street

San Leandro, CA 94578

Owner: Ali Aliasgari

15803 E 14<sup>th</sup> Street

San Leandro, CA 94578

Offsite:

Parcel #: 80C-500-6

1311 159<sup>th</sup> Avenue

San Leandro, CA 94578

4000 E Third Ave. Suite 600

Foster City, CA 94404

Parcel #: 80-40-78-10

15800 E 14<sup>th</sup> Street

San Leandro, CA 94580

354 Pine St. Floor 3

San Francisco, CA 94104

Parcel #: 80-40-73-4

15850 E 14<sup>th</sup> Street

San Leandro, CA 94578

354 Pine St. Floor 3

San Francisco, CA 94104

Parcel #: 80-57-16-4

15900 E 14<sup>th</sup> Street

San Leandro, CA 94578

607 Brookside Dr.

Danville, CA 94526

Parcel #: 80C-500-22

15921 E 14<sup>th</sup> Street

San Leandro, CA 94578

15921 E 14<sup>th</sup> St.

San Leandro, CA 94578



30343 Canwood Street, Suite 200
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May 30, 2012

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

Subject:

Case Closure Request

Site:

76 Service Station No. 6277

15803 East 14<sup>th</sup> Street San Leandro, California

Fuel Leak Case No. RO0002969

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 call:

Brian Whalen Platinum Energy 30343 Canwood Street, Suite 200 Agoura Hills, Ca 91301 Tel: (818) 206-5704 Fax: (818) 206-5721

bwhalen@platinum-energy.net

Sincerely,

PLATINUM ENERGY

**BRIAN WHALEN** 

Attachment



# Case Closure Request

76 Service Station No. 6277 15803 East 14th Street San Leandro, California

Alameda County Health Care Services Agency Fuel Leak Case No. RO00029696

GeoTracker Global ID No. T0619718179

Antea Group Project No. 140256277 May 30, 2012

Prepared for:
Mr. Keith Nowell
Hazardous Materials Specialist
Alameda County Health Care
Services Agency
1131 Harbor Bay Parkway,
Suite 250

Alameda, CA 94502-657

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### 1.0 INTRODUCTION

Antea Group has prepared this Case Closure Request for the Alameda County Health Care Services Agency (ACHCSA). The purpose of this report is to summarize historical data collected during previous investigations, monitoring and sampling events, and evaluate the site data for low-risk case closure.

### 1.1 Site Description

The site is currently an operating 76 service station located at 15803 East 14<sup>th</sup> Street in San Leandro, California (**Figure 1**). Station facilities include two 12,000 gallon fuel underground storage tanks (USTs), a 520 gallon waste-oil UST, two dispenser islands and a service station building, containing three service bays (**Figure 2**).

### 1.2 Geologic Setting

### 1.2.1 Regional Geologic Setting

The site is located in the East Bay Plain Subbasin. The subbasin is an alluvial plain consisting of unconsolidated sediments of Quaternary age.

### 1.2.2 Site Geologic Setting

Based on soils observed during soil boring and monitoring well installation activities at the site, the site is underlain by silty sand, gravelly sand, sandy gravel, gravelly clay, clay, silt, sandy silt, silt with sand, poorly graded sand, and sandy clay. Fine grain material such as clay and silt extend from just below ground surface to a depth of 25 feet bgs. Discontinuous layers of sand and gravel appear at depths of approximately 15, 20, and 30 feet bgs. These layers range in thickness from inches to three feet. First encountered groundwater ranges in depth from 16 feet bgs to 28 feet bgs depending on lithology. Cross sections are presented on Figure 3 and Figure 4. Boring logs are presented as Appendix A.



### 1.3 Hydrogeologic Setting

### 1.3.1 Regional Hydrogeologic setting

The site is located in the East Bay Plain Subbasin. The subbasin is an alluvial plain bounded by San Pablo bay to the north, the Franciscan Basement rock to the east, and the Niles Cone Groundwater Basin to the south. To the west the subbasin extends beneath the San Francisco Bay. Surface water collected in San Pablo Creek, Wildcat Creek, San Leandro Creek, and San Lorenzo Creek flow westward into the San Francisco and San Pablo bays. The San Francisco Bay is located approximately 4 miles west of the site.

### 1.3.2 Site Hydrogeologic Setting

The site currently has a network of four on-site monitoring wells (MW-7 through MW-10). Depth to groundwater in the monitoring wells has historically ranged from 9.35 feet below top of casing (btc) [MW-8, October 2011] to 10.78 feet btc [MW-10, February 2012]. The groundwater flow direction and gradient observed during the first quarter 2012 sampling event are shown on **Figure 5**. The historical groundwater flow direction is predominantly northwest with an average hydraulic gradient of 0.004 foot per foot (ft/ft). Historical groundwater flow directions and gradient data are presented as **Appendix B**.

### 2.0 SUMMARY OF PREVIOUS WORK

1969 - Reported site history indicates the site was first developed as a gas station from an empty lot.

<u>March 1989</u> - Two 10,000-gallon gasoline USTs, one 550-gallon waste-oil UST, and the product piping were removed from the site during UST replacement activities. Kaprealian Engineering Inc. (KEI) advanced two exploratory borings designated as EB-1 and EB-2 at the site. The borings were advanced at the request of Alameda County to assess the possible presence of hydrocarbon impact to the soil in the vicinity of the proposed UST excavation.

The borings were advanced to depths of 10.5 feet below ground surface (bgs) and 13.5 feet bgs. Ground water was encountered in the borings at depths of 11 to 12 feet bgs. The analytical results of the soil samples were as follows:

• At a depth of 5 feet bgs soil samples analyzed for total petroleum hydrocarbons as gasoline (TPHg) ranged from below the laboratory's indicated reporting limit in boring EB-2 to 2.1 parts per million (ppm) in boring EB-1.



• At a depth of 10 feet bgs TPHg concentrations ranged from 200 ppm in boring EB-1 to 620 ppm in boring EB-2.

Based on results of this preliminary investigation, KEI recommended that the contractor excavate the existing UST excavation to a depth of approximately 13 feet bgs. Water was encountered in the fuel UST excavation at a depth of approximately 11 feet bgs, thus prohibiting the collection of any soil samples from immediately beneath the USTs.

Six soil samples, labeled SW1 through SW6, were collected from the sidewalls of the fuel UST excavation at depths of approximately 1 foot above the water table; and one soil sample, labeled W0-1, was collected from beneath the waste-oil UST at a depth of about 10 feet bgs. Based on observations in the field, it was decided to excavate additional soil from three of the four excavation sidewalls.

<u>March 14, 1989</u>: Four trenches were installed to assess the limits of additional soil excavation needed. Four soil samples were then collected at depths of approximately 10 feet bgs. The soil analytical results were as follows:

- In the fuel UST excavation, TPHg concentrations ranged from 24 ppm to 150 ppm.
- A sample collected adjacent to the existing station building indicated that TPHg was present at a concentration of 3,500 ppm.
- The soil sample collected after excavating 2 feet of sidewall toward the station building indicated that TPHg was present at a concentration of 100 ppm.
- Soil sample (SW-2) contained TPHg at a concentration of 390 ppm.
- The soil sample collected from the waste-oil UST excavation (WO-1) contained total oil and grease (TOG) at a concentration of 280 ppm. A side wall sample, SW-7 collected after excavating 14 feet of sidewall contained TOG at a concentration of 41 ppm.

The analytical results of the water sample (W1) collected from the waste-oil/fuel UST excavation contained TPHg at a concentration of 19,000 parts per billion (ppb) and benzene at a concentration of 230 ppb.

<u>March 23, 1989</u>: KEI returned to the site for pipe trench soil sampling. Six soil samples, labeled P1 through P6, were collected from beneath the product lines at depths of approximately 3 to 3.5 feet below grade. The analytical results of the soil samples P1 through P6 collected from the pipe trenches indicated concentrations of TPHg ranging from 1.1 ppm to 6.8 ppm.

The fuel UST excavation and the waste-oil UST excavation were over-excavated in order to remove hydrocarbon-impacted soil. The majority of the hydrocarbon-impacted soil appeared to have been



removed from the site, except for the capillary fringe in the vicinity of the former UST excavation and the building.

May 24, 1989: Four two-inch diameter monitoring wells, MW-1 through MW-4 were installed at the site. The four monitoring wells were installed to depths ranging from 24.5 to 25 feet bgs. Ground water was encountered at depths ranging from 11 to 12 feet bgs during drilling.

July 1989: The monitoring and sampling program was initiated.

<u>February 1990</u>: Monitoring well MW-2 was destroyed on February 1 in preparation for additional soil excavation in the vicinity of this well. Soil was excavated to a depth of approximately 6 to 12 inches below the level of the groundwater, which was encountered at a depth of about 11.5 feet below grade. After additional excavation, four soil samples were collected from the sidewalls of the excavation, each approximately 6 to 12 inches above groundwater. Soil excavation activities were terminated due to the close proximity of the former and new UST excavations and the site's property line.

The analytical results from the three soil samples indicated that TPHg was present at concentrations ranging from 140 ppm to 1,100 ppm, while concentrations of total petroleum hydrocarbons as diesel (TPHd) ranged from below the laboratory's indicated reporting limits to 280 ppm. The analytical results also indicated Environmental Protection Agency (EPA) Method 8010 constituents and TOG from each of the four samples were below the laboratory's indicated reporting limits, except in sample SW11A which contained TOG at a concentration of 210 ppm.

Over-excavation in the vicinity of monitoring well MW-2 was completed in April of 1990. Monitoring well MW-2 was then replaced with a new monitoring well (MW-2A) in March 1991.

1991: Due to the regular occurrence of tetrachloroethene (PCE), trichloroethene (TCE) and 1,2-dichlorethane (1,2-DCA) in sampled groundwater, a review of records documenting historic site activities was performed in 1991 to assess whether there were any up-gradient sources contributing to the impacted groundwater at the site. The file review was conducted by KEI at the Regional Water Quality Control Board (RWQCB).

The review focused on three sites with monitoring wells located within a half mile of the station. The Okada property, located at 16109 Ashland Avenue, a former USA Petroleum station located at 15120 Hesperian Boulevard, and Kaufman and Broad, located at 1620 162<sup>nd</sup> Avenue, approximately 1,800 feet



east-southeast of the site. The file review is outlined in Delta's Addendum to Additional Site Assessment Work Plan, dated April 3, 2009.

<u>December 1992</u>: A file review was conducted at the ACHCSA. Four sites with existing or former USTs were located in the vicinity of the site during the file review. These sites are as follows: 1.) Nayou Properties, 1500 Thrush Avenue; 2.) ABC Auto Repair, 15960 East 14<sup>th</sup> Street; 3. Petsas Property, 16035 East 14<sup>th</sup> Street, and; 4.) SpeeDee Oil Change, 15900 East 14<sup>th</sup> Street.

<u>1991-1993</u>: The California EPA, Department of Toxic Substances Control (DTSC), identified regional chlorinated solvent contamination of the upper aquifer in the San Leandro area.

1993: Based on the results of the site history research, site reconnaissance, and file review, and based upon the fact that no evidence of an on-site solvent source area in the vicinity of monitoring wells MW-3 and MW-4 was found, it was concluded that there was no likely on-site source of the halogenated volatile organic compound (HVOC) impact.

The potential of an off-site HVOC source is further supported by the fact that the highest HVOC concentrations have been reported in samples collected from monitoring wells MW-3 and MW-4, located on the up-gradient side of the site. HVOC concentrations reported in the groundwater samples collected from these monitoring wells are likely coming from a source (E.G. reaching sanitary sewer lines, etc.) up-gradient of the site.

March 1993: Monitoring wells MW-5 and MW-6 were installed on March 9, 1993. These wells were monitored monthly and sampled on a quarterly basis until 1996. Groundwater flow predominantly ranged from southwest to north during the course of the investigation. Chlorinated solvents have consistently been reported in up-gradient wells MW-3 and MW-4, and it appears that the chlorinated solvent impact at the site may be due to an unidentified source (or sources) located up-gradient of the site, or is part of a regional chlorinated solvent plume. The perimeter monitoring wells, MW-5 and MW-6, have historically shown a maximum concentration of 72 micrograms per liter (μg/L) of TPHg and below the laboratory's indicated reporting limits for benzene, toluene, ethylbenzene, and total xylenes (BTEX).

<u>March 1997</u>: An off-site investigation was conducted in March 1997 to assess any impacts in the downgradient direction from monitoring well MW-1. Monitoring well MW-1 is the most down-gradient of the



wells at the site and has historically contained the highest concentrations of petroleum hydrocarbons in groundwater throughout the duration of the site investigation.

Three direct push borings (EB-3, EB-4, and EB-5) were advanced through East 14th Street in a northerly transect from the site. The three borings were each advanced to total depths ranging from 11 to 15 feet below grade. Groundwater was encountered at depths ranging from 10.5 to 15 feet bgs during drilling. No reportable target compounds were identified in either soil or groundwater samples.

<u>1998</u> — A *Case Closure Summary* was prepared by the Alameda County Environmental Protection Department. This document concluded that drinking water wells are not affected. It also documented the maximum contaminant concentrations — before and after cleanup as follows:

Contaminant	Soil (ppm)			Water (ppb)	
	Before	After		Before	After
TPHg	3,500	1,100		19,000	510
TPHd	ND	6.2		NA	NA
Benzene	40	8	,	230	72
Toluene	280	43		79	ND
Xylenes	600	230		1,300	17
Ethyl-benzene	100	37		ND	ND
Methyl tert-butyl					
ether (MTBE)	NA	NA		NA	390
TOG	7,700	1,300		NA	NA
Heavy Metals	NA	NA		NA	NA
Other HVOC TCE	0.063	ND	TCE	4.4	ND
•			PCE	110	950
			1,2-		
			DCA	2.8	ND

The *Case Closure Summary* concluded that "there are no known municipal or residential water wells or surface water bodies within 750 feet down-gradient of the subject site that would be impacted by shallow groundwater from this site".

December 2000: The ACHCSA issued a Case Closure letter dated December 26, 2000.



**2003:** Six groundwater monitoring wells (MW-1, MW-2A, and MW-3 through MW-6) destroyed. Groundwater was at 6 to 11 feet bgs.

<u>September 2007</u>: Six soil borings (ATC-1 through ATC-6) were advanced in the vicinity of the existing fuel and waste-oil USTs and dispensers on September 25 and 26, 2007. The borings were advanced to total depths of approximately 20 feet bgs (ATC-2, ATC-3, ATC-4, and ATC-5) and 25 feet bgs (ATC-1 and ATC-6). Groundwater was initially encountered at depths ranging from 14 feet bgs to 24 feet bgs during drilling activities.

Groundwater samples were collected from each of the six borings. A duplicate groundwater sample designated as "Duplicate B-1" was collected from boring ATC-1. Photo ionization detector (PID) readings from the screened soil samples ranged from 1.4 ppm to 2,272 ppm. The analytical results from the ATC Investigation are outlined in Delta's *Addendum to Additional Site Assessment Work Plan* dated April 3, 2009.

<u>December 2009</u>: Delta advanced six soil borings (B-1 through B-5, and B-7) to assess the extent of petroleum hydrocarbon impact to the soil and groundwater. The borings were advanced to total depths ranging from 24 to 32 feet bgs. First groundwater was encountered at depths ranging from 21 to 28.5 feet bgs during drilling activities.

Soil and groundwater samples were collected from each of the six borings. PID readings from the screened soil samples ranged from 0.2 ppm to 197 ppm. The analytical results indicated that TPHg was present in the soil at a maximum concentration of 603 mg/kg (B-1 at 12 feet) and in the groundwater at a maximum concentration of 2,110  $\mu$ g/L (B-1). The analytical results from the December 2009 Investigation are outlined in Delta's *Subsurface Soil and Groundwater Investigation Report* dated March 23, 2010.

<u>April 5, 2011</u>: Antea Group completed a site investigation consisting of the installation of four on-site monitoring wells (MW-7 through MW-10). The results of the investigation are presented in the *Site Investigation Report*, dated July 5, 2011.



### 3.0 PETROLEUM HYDROCARBON DISTRIBUTION AND TRENDS

### 3.1 Lateral and Vertical Extent of Non-Aqueous Phase Liquid

Non-aqueous phase liquid (NAPL) has not been observed in soil and groundwater samples collected at the site.

### 3.2 Distribution of Petroleum Hydrocarbons in Soil

Historical soil sampling analytical results are summarized in Table 1.

### 3.2.1 TPHg Distribution in Soil

TPHg was reported in several soil samples collected on-site with a maximum concentration of 1,000 mg/kg at 5 feet bgs in soil sample ATC-4d5.0 in 2007. This soil sample was collected from soil boring ATC-4 which was advanced just east of the northern dispenser island (Figure 2). TPHg impacted soil at the site has been laterally delineated to the south, east, and west and vertically delineated and further investigation is not warranted at this time, based on the soil sample analytical results from samples collected from monitoring wells MW-7 through MW-10 and borings B-1 through B-7.

### 3.2.2 Benzene Distribution in Soil

Benzene has been reported in several soil samples collected on-site with a maximum concentration of 0.71 mg/kg at 12 feet bgs in soil sample B-1@12. This soil sample was collected from soil boring B-1 which was advanced just north of the product dispenser islands. Benzene impacted soil has been laterally delineated to the south, east, and west and vertically delineated and further investigation is not warranted at this time, based on the soil sample analytical results from samples collected from monitoring wells MW-7 through MW-10 and borings B-1 through B-7.

### 3.2.3 MTBE Distribution in Soil

MTBE has been reported in several soil samples collected on-site with a maximum concentration of 0.21 mg/kg at 10 feet bgs in soil boring B-7. MTBE impacted soil has been laterally delineated to the south, east, and west and vertically delineated and further investigation is not warranted at this time, based on the soil sample analytical results from samples collected from monitoring wells MW-7 through MW-10 and borings B-1 through B-7.



### 3.3 Distribution of Petroleum Hydrocarbons in Groundwater

Historical groundwater sampling locations are shown on **Figure 2**. Historical groundwater concentrations observed during periodic monitoring and sampling events since 2011 are presented in **Table 3**. Historical grab groundwater concentrations are presented in **Table 4**.

Constituents of concern (COC) in groundwater at the site have historically been TPHg, benzene, and MTBE. There are currently four groundwater monitoring wells on-site (MW-7 through MW-10) which monitor COC concentrations. Well construction details are included in **Table 5**.

### 3.3.1 TPHg Distribution in Groundwater

TPHg has historically been observed above the laboratory reporting limit in monitoring wells MW-7 through MW-10. TPHg was reported above the laboratory's reporting limit in monitoring wells MW-7 through MW-10 during the first quarter 2012 monitoring and sampling event with a maximum concentration of 655 micrograms per liter ( $\mu$ g/L) in the sample collected from monitoring well MW-7 (**Figure 6**).

### 3.3.2 Benzene Distribution in Groundwater

Benzene has historically been observed above the laboratory reporting limit in monitoring wells MW-7 and MW-8. Benzene was reported above the laboratory's reporting limit in monitoring well MW-7 during the first quarter 2012 monitoring and sampling event at a concentration of 14.9  $\mu$ g/L (**Figure 7**).

### 3.3.3 MTBE Distribution in Groundwater

MTBE has historically been observed above the laboratory reporting limit in monitoring wells MW-7 through MW-10. MTBE was reported in monitoring wells MW-7 through MW-10 during the first quarter 2012 monitoring and sampling event with a maximum concentration of  $112\mu g/L$  in the sample collected from monitoring well MW-7 (Figure 8).



### 4.0 CONTAMINANT SOURCES, TRANSPORT, AND EXPOSURE PATHWAYS

### 4.1 Contaminant Source

Based on the distribution of contaminants of concern in the soil and groundwater, it appears the on-site release occurred from the former USTs in the northwest portion of the site (Figure 2) and/or the former product piping and fuel dispenser in the northeast portion of the site. The highest concentrations of TPHg were found in soils immediately southeast of the product dispensers. Both the USTs and product lines have been replaced. It appears that contaminants of concern currently observed in soil and groundwater are residual in nature and will naturally attenuate within a reasonable amount of time.

### 4.2 Contaminant Transport and Preferential Pathways

A detailed underground utility survey has not been performed at the site. Based on the difference between the depth of groundwater (average 9 feet bgs) and the typical depth of utilities (usually no more than 5 feet bgs), it is unlikely that groundwater would intersect the utility trenches and use them as preferential pathways. In addition, based on the observed first encountered groundwater beneath the site, average 21.85 feet bgs, during soil boring advancement and monitoring well installation and the average depth to groundwater in the monitoring wells, 9.79 feet below top of casing, it appears that the groundwater is under confined conditions and not likely to be influenced by utility trenches.

### 4.3 Potential Sensitive Receptors

March 26, 2012: Antea Group completed a sensitive receptor survey for the site. According to California Department of Water Resources (DWR) and the Alameda County Public Works Agency (ACPWA) records, sixteen water wells are located within a one-half mile of the site. All sixteen of the wells are described as irrigation supply wells. The closest of the wells is located <100 feet north-northwest of the site in the apartment complex adjacent to the site. According to the apartment complex, they receive their irrigation water from the city; therefore, Antea Group concludes that this well has been either destroyed or abandoned. Five additional wells were identified by the DWR and ACPWA, but their locations were not reported and Antea Group was unable to locate these wells during a site visit.

A web based search identified twelve facilities within 0.5 miles of the site that could be potential receptors. These include schools, churches, medical facilities and elderly care facilities. The closest facility is Bayfaur Lodge Residential Care, an elderly care facility, is located 650 feet northeast of the site. The closest body of water is a drainage canal running north to south located 260 feet west of the site.



### 4.4 Exposure Pathways

### 4.4.1 Direct Contact (Ingestion and Dermal Contact)

Direct exposure to chemicals in the soil is primarily a concern when the impacts are located within 10 feet of the ground surface. Because the majority of the site is covered in concrete and asphalt, construction workers are the most likely on-site receptor to be directly exposed to the impacted soil and groundwater either during utility work or excavation activities. Commercial workers such as landscapers can potentially be exposed to chemicals in the soil to two feet bgs during typical irrigation system maintenance on-site. Due to the limited amount of landscaping on-site, the potential for exposure to this receptor is low. Commercial employees of the station typically do not perform subsurface work, and thus are less likely to be exposed.

### 4.4.2 Inhalation

Because the site is currently occupied by an active service station, commercial workers are most susceptible to exposure via the inhalation pathway, as they spend the greatest amount of time on-site. The risk to customers is far less, based on their limited potential exposure time. Construction workers conducting an indoor remodel or outside work could be exposed to vapors within buildings or ambient air, although their time on-site would be limited. Because groundwater impact is limited in extent, off-site, it appears the inhalation risk to off-site residents does not exist.

### 5.0 LOW RISK CLOSURE READINESS EVALUATION

 The release has been stopped and ongoing contaminant sources have been removed or remediated.

Based on the distribution of contaminants of concern in the soil and groundwater, it appears the on-site release(s) occurred from the former USTs in the northwest portion of the site (Figure 2) and/or the former product lines in the northeast portion of the site. The highest concentrations of TPHg was reported in soils immediately south of the product dispensers. Both the USTs and product lines have been replaced. It appears concentrations observed in soil and groundwater are residual in nature and will naturally attenuate within a reasonable amount of time.



### The site has been adequately characterized.

Soil impact at the site is minimal, and has been vertically delineated and laterally delineated to the south, east, and west (Section 3.2). Groundwater impact at the site is now limited to COCs TPHg, benzene, and MTBE (Section 3.3). Benzene and MTBE concentrations are below the concentrations reported when the case was closed in 1998. TPHg concentrations in the monitoring well MW-7 are decreasing, and the concentrations reported in the other three monitoring wells are below the levels observed when the case was closed in 1998. It appears historical soil and groundwater sampling activities at the site have adequately delineated groundwater impact and further investigation is not warranted. All COCs are currently below COC concentrations reported in 1998. This appears to indicate that there was no new release and the site should be closed.

### The contamination is not migrating.

The contamination plume appears to be shrinking. Concentrations of TPHg, benzene, and MTBE are decreasing in monitoring well MW-7, which historically contained the highest concentrations of TPHg, benzene, and MTBE. Concentrations observed in monitoring wells MW-8 through MW-9 are stable and remain below the groundwater concentrations reported when the case was closed in 1998.

 No water wells, deep water drinking aquifers, surface water, or sensitive receptors are likely to be impacted.

Antea Group performed a sensitive receptor survey in 2012. Sixteen irrigation water supply wells were identified in the search. Based on the distance from the site and the predominant groundwater flow direction, it does not appear that the petroleum hydrocarbon and MTBE impact is migrating in the direction of these water supply wells and impact to the wells is unlikely.

There are two surface water bodies identified within a one-half mile of the site. A drainage ditch located 260 feet west of the site and a drainage ditch located 420 feet south of the site. Based on the predominant groundwater flow direction being to the northwest, it appear that impact to these water bodies due to petroleum hydrocarbon and MTBE impact in the shallow groundwater originating beneath the site is unlikely.



The site presents no significant risk to human health and/or environment.

There are no water supply wells in the immediate vicinity of the site and the shallow impacted groundwater plume does not appear to be migrating. Therefore, it appears the risk to off-site residents direct exposure to the shallow groundwater does not exist.

Destruction of Monitoring Wells.

Antea Group will remove the four on-site monitoring wells by either over-drilling or pressure grouting when instructed to do so by the ACHCSA in preparation for regulatory closure. The well construction details are presented in **Table 5**.

### 6.0 CONCLUSIONS AND RECOMMENDATIONS

Antea Group has made the following conclusions in this Case Closure Request:

- All contaminants of concern in soil have been laterally and vertically delineated, and do not pose
  a significant risk to human health. Further investigation of the soil impact due to the on-site
  release(s) is not warranted.
- Groundwater impacted has been adequately delineated cross- and down-gradient of the site. The impacted groundwater plume does not appear to be migrating and concentrations reported in the four on-site monitoring wells show a stable and/or decreasing trend.
- Currently, all constituents of concern are at or below those reported at the time of site closure in 1998. This indicates that there has not been a new release at this site and this site should be closed.



### 7.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Prepared by:

Edward T. Weyrens, G.I.T.

**Project Professional** 

Information, conclusions, and recommendations provided by Antea Group in this document regarding

Date: 5/30/12

the site have been prepared under the supervision of and reviewed by the licensed professional whose ONAL GEO

> DENNIS SHANNON DETTLOFF No. 7480

signature appears below.

Licensed Approver:

Dennis S. Dettloff, P.G.

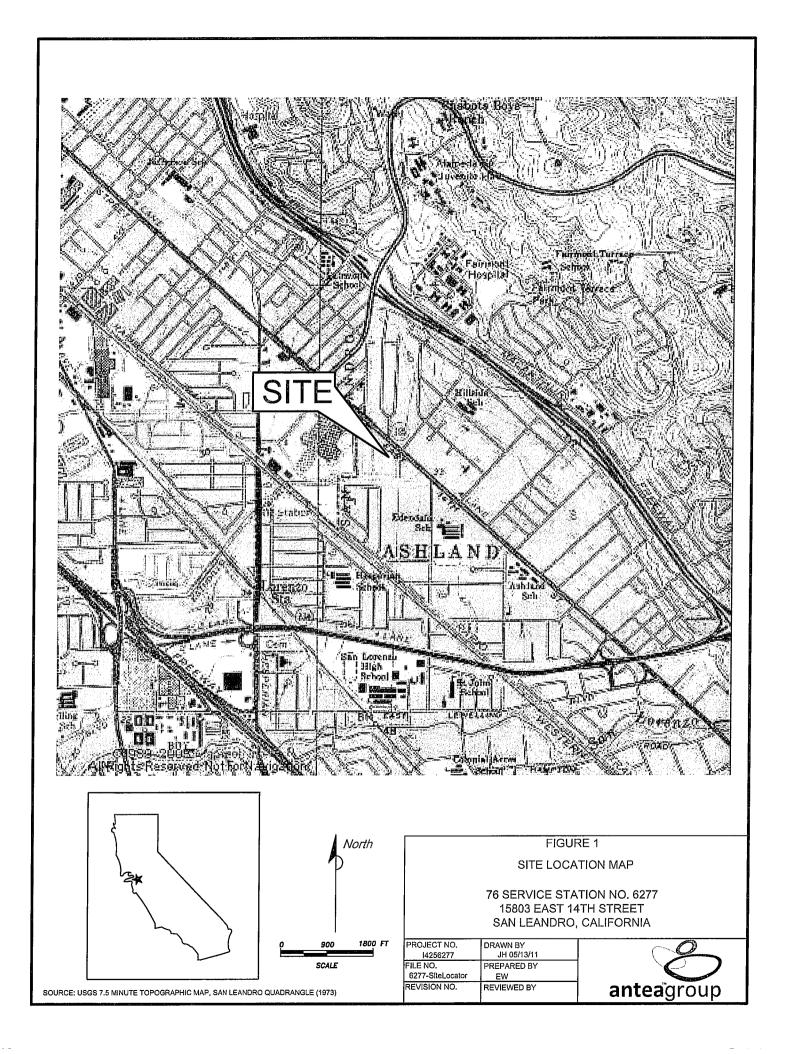
**Project Manager** 

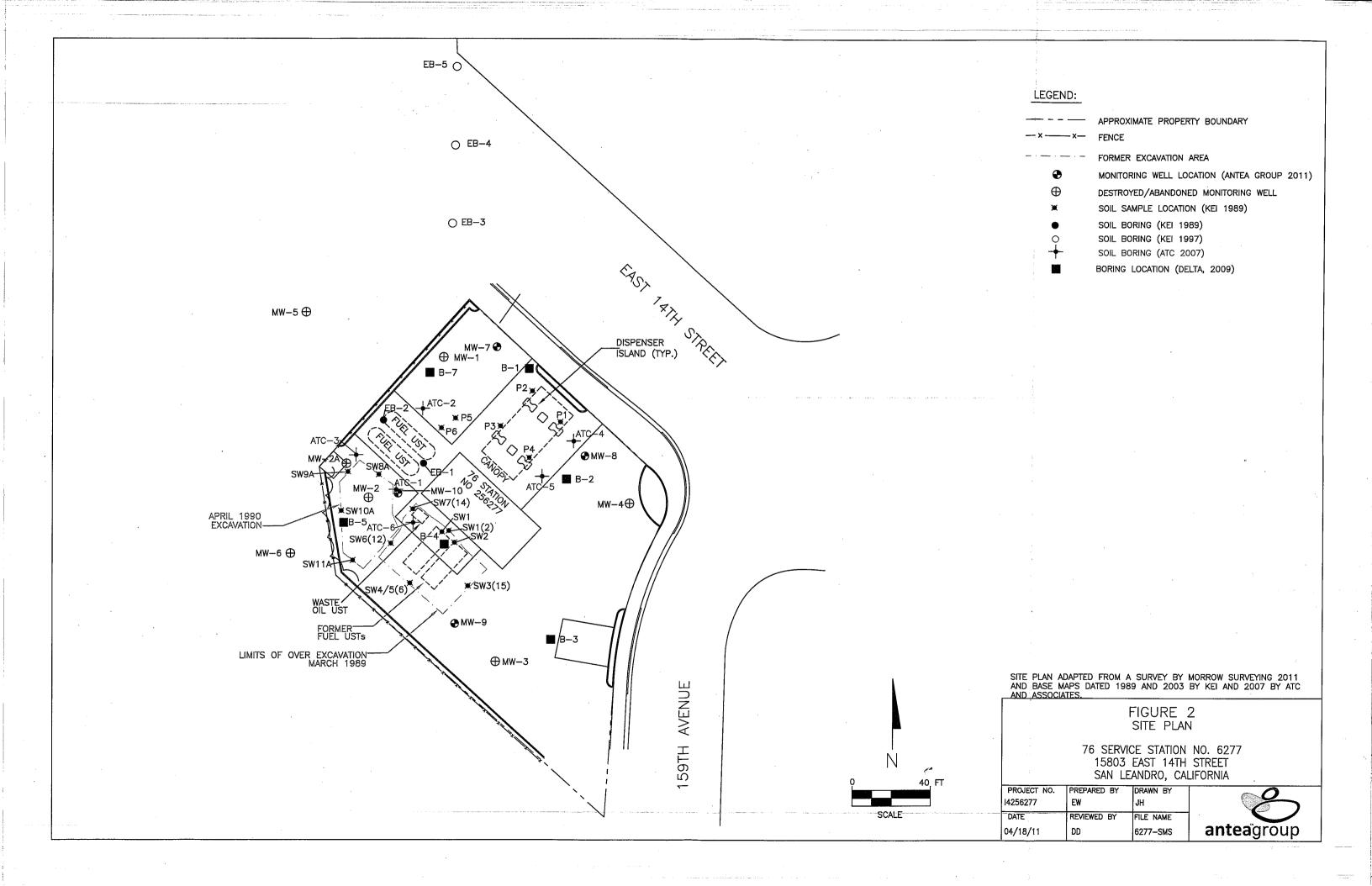
California Registered Professional Geologist No. 7480

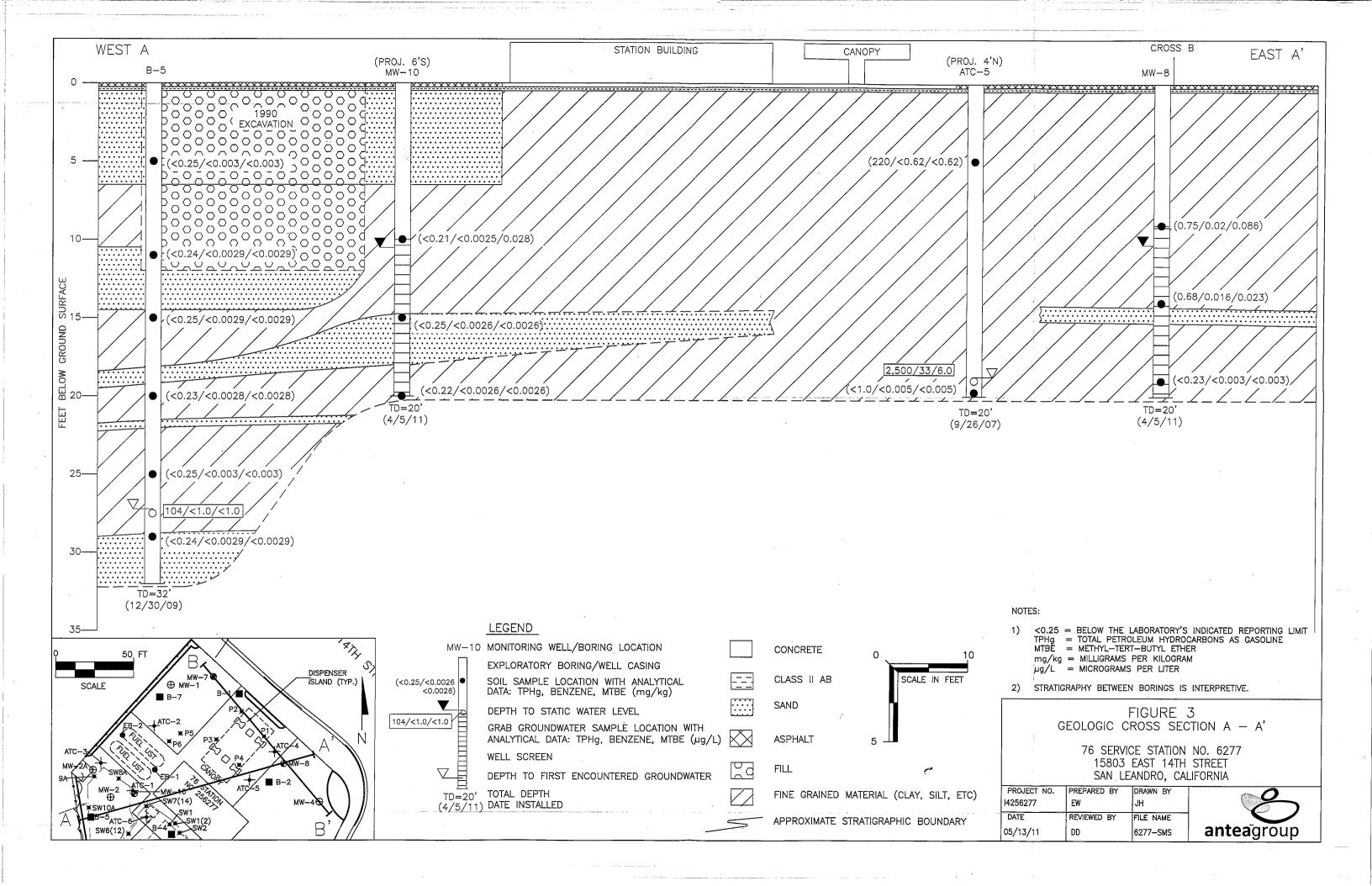


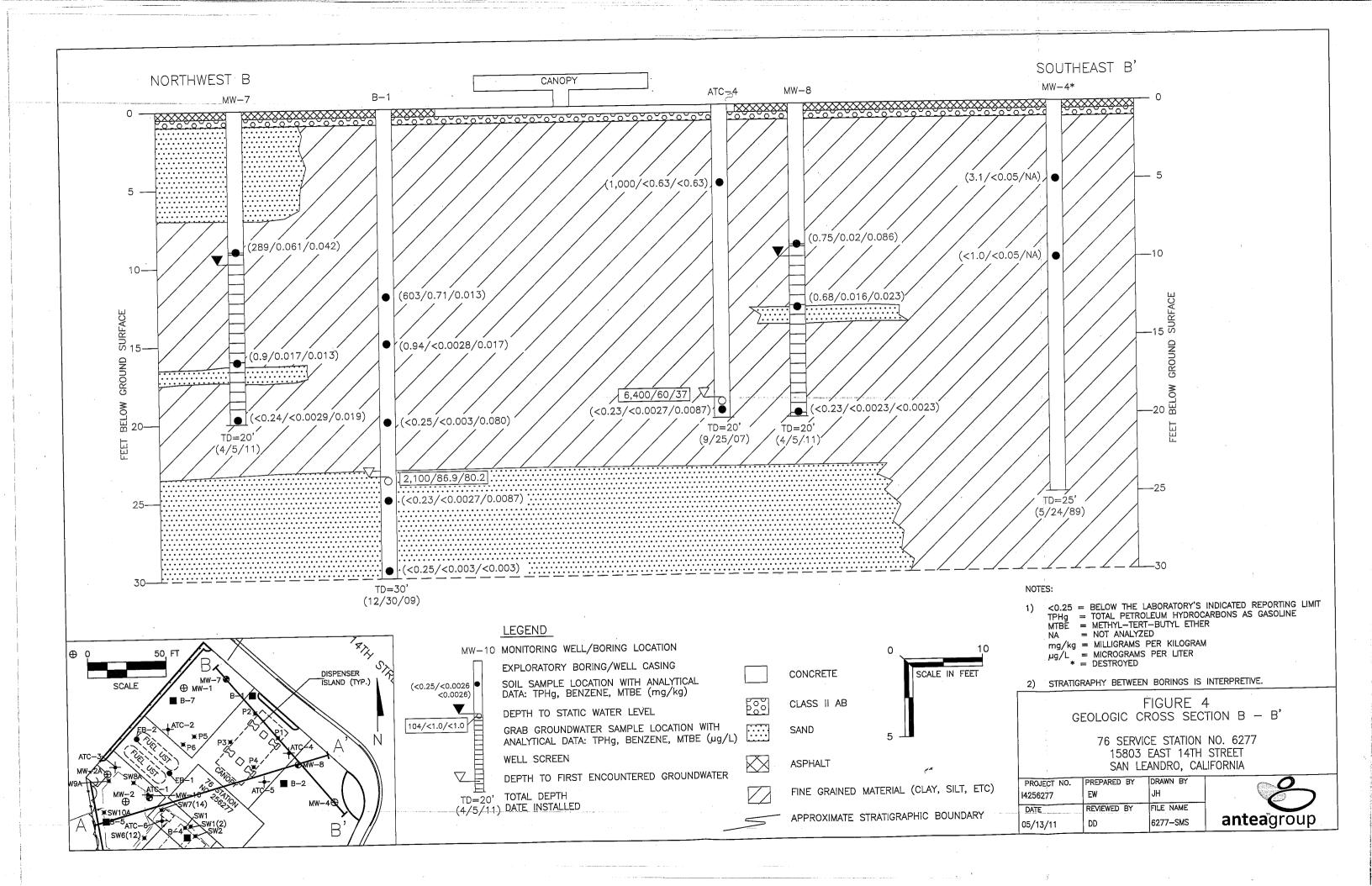
# **Figures**

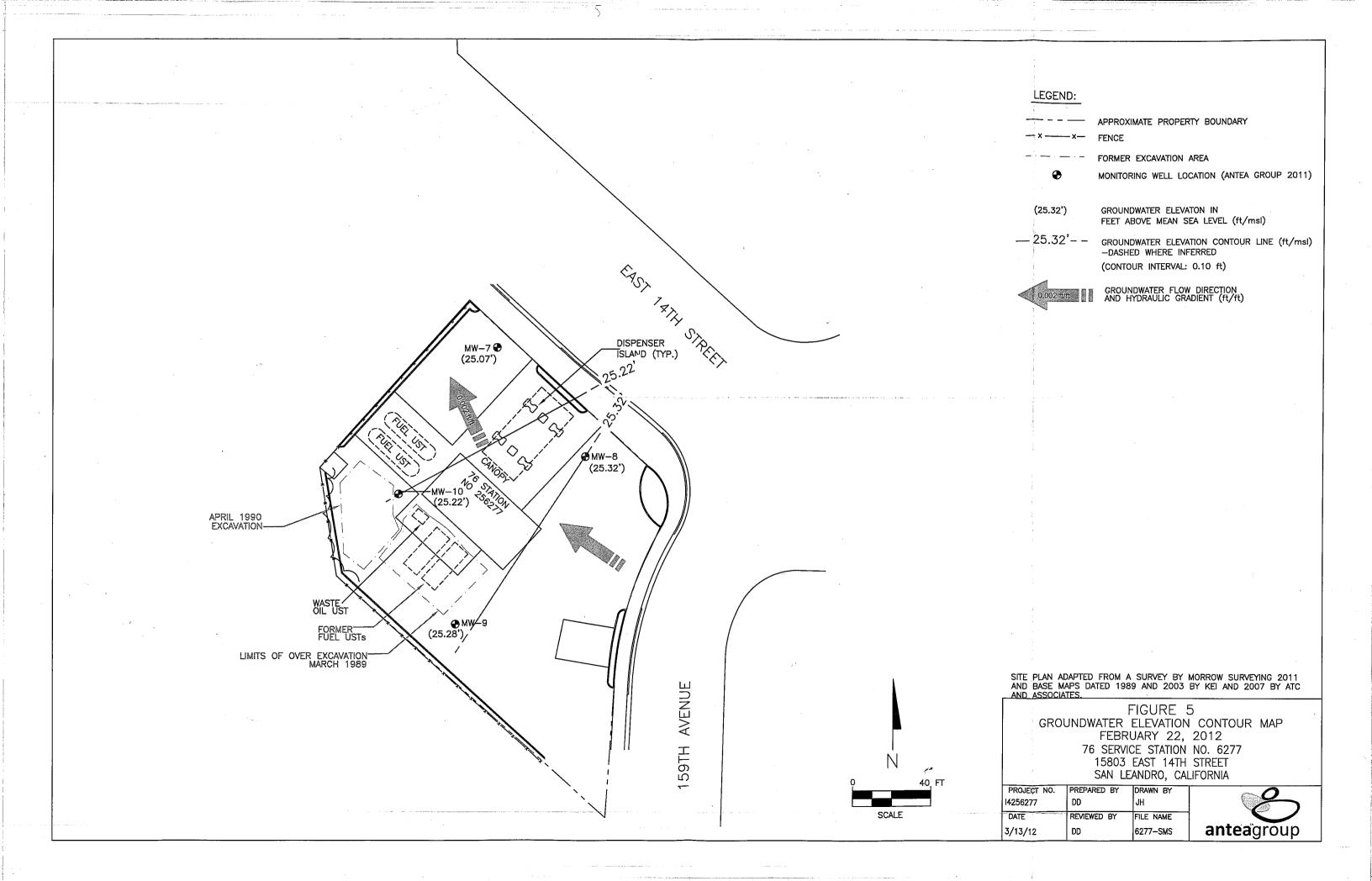
Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Cross Section A-A'
Figure 4	Cross Section B-B'
Figure 5	Groundwater Elevation Contour Map – February 22, 2012
Figure 6	Dissolved Phase TPHg Isoconcentration Map – February 22, 2012
Figure 7	Dissolved Phase Benzene Isoconcentration Map – February 22, 2012
Figure 8	Dissolved Phase MTBE Isoconcentration Map – February 22, 2012

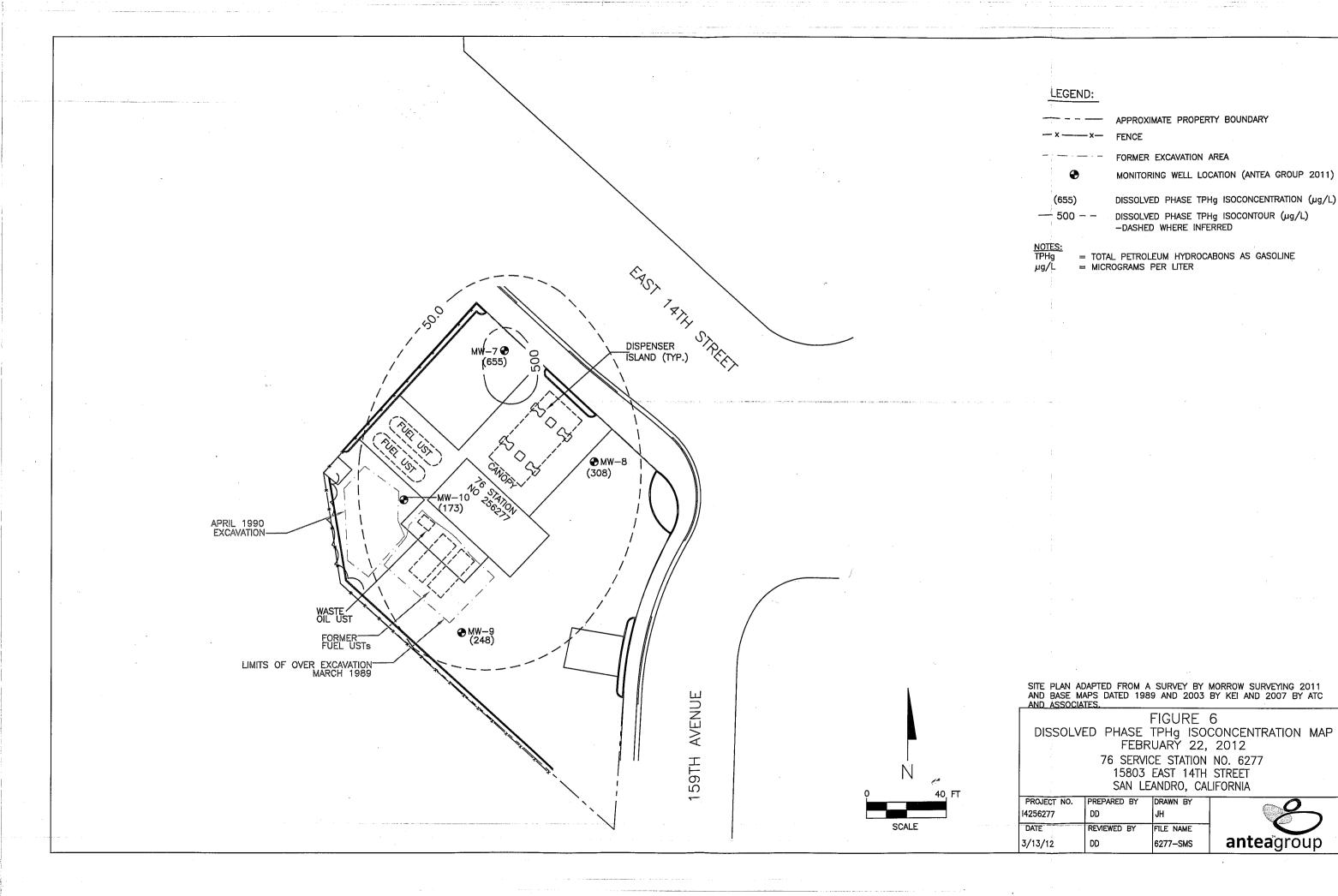


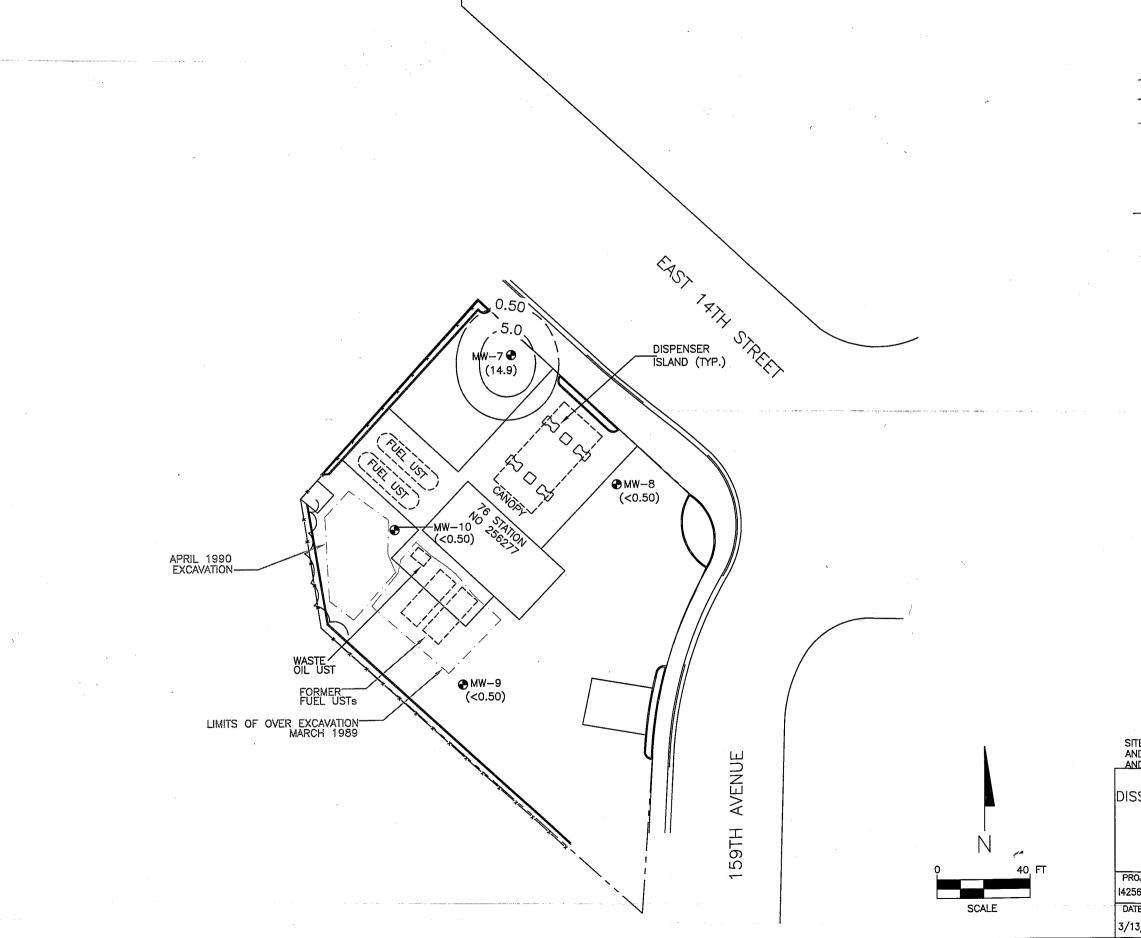












LEGEND:

APPROXIMATE PROPERTY BOUNDARY

FENCE

FORMER EXCAVATION AREA

MONITORING WELL LOCATION (ANTEA GROUP 2011)

DISSOLVED PHASE BENZENE ISOCONCENTRATION (µg/L) (14.9)

DISSOLVED PHASE BENZENE ISOCONTOUR (µg/L)

-DASHED WHERE INFERRED

NOTES:

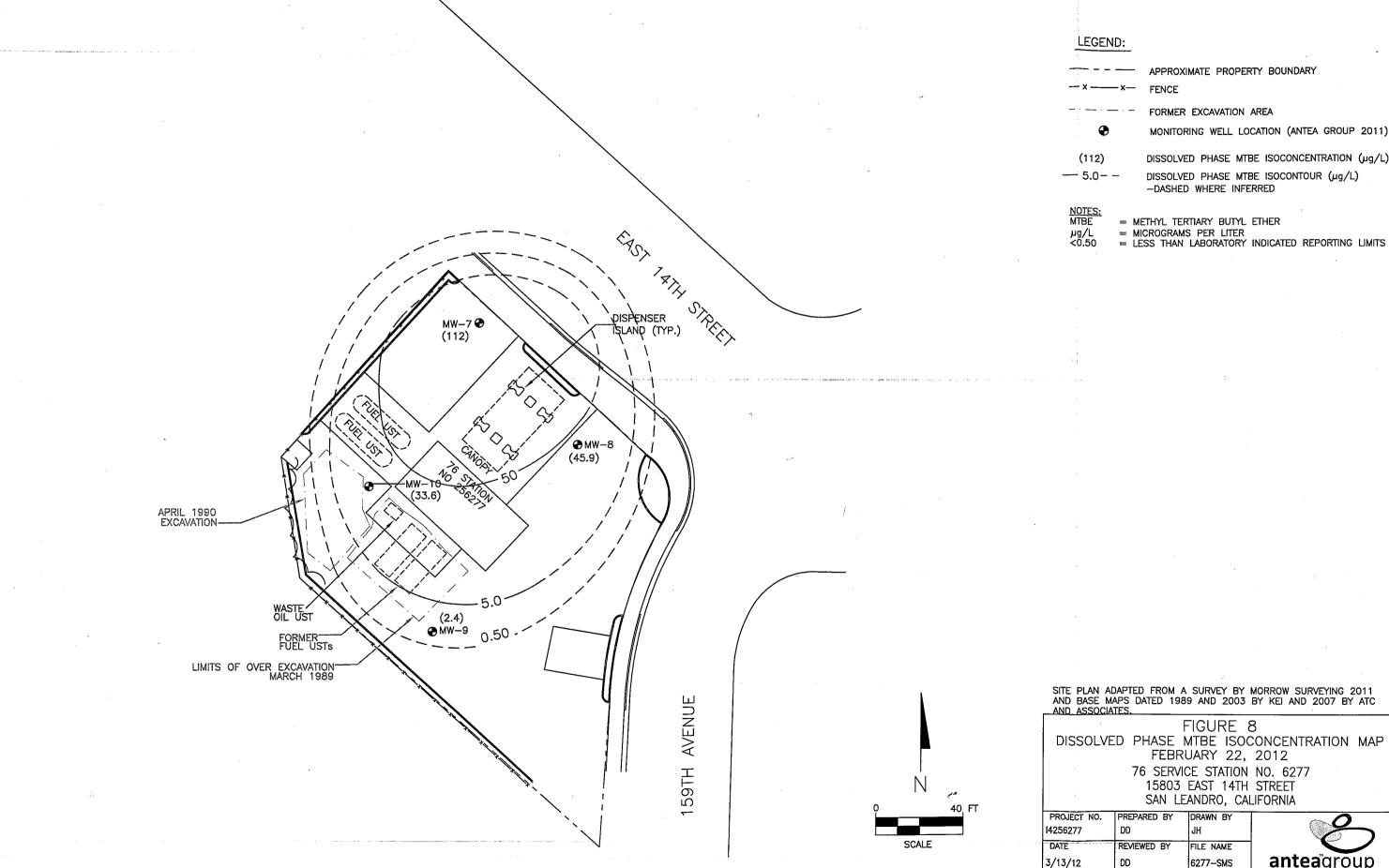
= MICROGRAMS PER LITER = LESS THAN LABORATORY INDICATED REPORTING LIMITS

SITE PLAN ADAPTED FROM A SURVEY BY MORROW SURVEYING 2011 AND BASE MAPS DATED 1989 AND 2003 BY KEI AND 2007 BY ATC

FIGURE 7
DISSOLVED PHASE BENZENE ISOCONCENTRATION MAP FEBRUARY 22, 2012

76 SERVICE STATION NO. 6277 15803 EAST 14TH STREET SAN LEANDRO, CALIFORNIA

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up	
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APPROXIMATE PROPERTY BOUNDARY

MONITORING WELL LOCATION (ANTEA GROUP 2011)

DISSOLVED PHASE MTBE ISOCONCENTRATION (µg/L)

SITE PLAN ADAPTED FROM A SURVEY BY MORROW SURVEYING 2011 AND BASE MAPS DATED 1989 AND 2003 BY KEI AND 2007 BY ATC AND ASSOCIATES.

DISSOLVED PHASE MTBE ISOCONCENTRATION MAP FEBRUARY 22, 2012 76 SERVICE STATION NO. 6277

15803 EAST 14TH STREET SAN LEANDRO, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY	
I4256277	DD	JH	
DATE	REVIEWED BY	FILE NAME	
3/13/12	DD	6277-SMS	ant





# **Tables**

Table 1	Historical Soil Analytical Results
Table 2	Current Groundwater Gauging and Analytical Data
Table 3	Historical Groundwater Analytical Data
Table 4	Historical Grab-Groundwater Analytical Data
Table 5	Well Construction Details

Table 1

### HISTORICAL SOIL ANALYTICAL RESULTS 76 Service Station No. 6277 15803 East 14th Street, San Leandro, CA

Sample ID	Date	Sample	TPHg	Benzene	Toluene	Ethyl-	Total Xylenes	MTBE	TBA	TAME	DIPE	ETBE	Ethanol	1,2-DCA	EDB	DRO	RRO	Lead
		Depth (feet)	(mg/kg)	(mg/kg)	(mg/kg)	benzene (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)
ATC 2007							İ			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						, or or		
ATC-1d12.0	9/25/2007	12	100	<0.005	<0.005	0.016	0.029	0.024	0.19	<0.001	<0.001	<0.001	<0.10			57		8.15
ATC-1d20.0	9/25/2007	20	<1.0	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.10	<0.001	<0.001	<0.001	<0.10	-		<12		4.57
ATC-2d12.0	9/25/2007	12	560	<0.62	<0.62	8.8	48	0.83	<0.10	<0.001	<0.001	<0.001	<0.10			51	1	7.62
ATC-2d20.0	9/25/2007	20	<1.0	<0.005	<0.005	<0.005	<0.005	0.011	<0.10	<0.001	<0.001	<0.001	<0.10		-	<12		3.57
ATC-3d12.0	9/25/2007	12	_ 27	<0.63	<0.63	0.82	2.93	<0.0005	<0.10	<0.001	<0.001	<0.001	<0.10			310		7.71
ATC-3d18.0	9/25/2007	18	<1.0	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.10	<0.001	<0.001	<0.001	<0.10		-	18		8.21
ATC-4d5.0 ATC-4d20.0	9/26/2007	5	1,000	<0.63	<0.63	11	43	<0.0005	<0.10	<0.001	<0.001	<0.001	<0.10	-		170		6.48
ATC-5d5.0	9/26/2007 9/26/2007	20 5	<1.0	<0.005	<0.005	<0.005	<0.005	0.015	<0.10	<0.001	<0.001	<0.001	<0.10		-	<12		2.85
ATC-505.0 ATC-5d20.0	9/26/2007	20	<b>220</b> <1.0	<0.62 <0.005	<b>1.2</b> <0.005	<b>6.2</b> <0.005	<b>25.2</b> <0.005	<0.0005	<0.10	<0.001	<0.001	<0.001	<0.10 <0.10	-		<12		6.27
ATC-5020.0	9/25/2007	12	59	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.10 <0.10	<0.001 <0.001	<0.001 <0.001	<0.001 <0.001	<0.10			<14		2.59
ATC-6d15.0	9/25/2007	15	<1.0	<0.005	<0.005	<0.005	<0.005	<0.0005	<0.10	<0.001	<0.001	<0.001	<0.10			<12 <12		9.37
Delta 2009	3/23/2007		1 11.0	1 40.005	1 40.005	<0.003	1 30.005	<b>VO.0003</b>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>VO.CO1</b>	(0.001	<0.001				\ \12		5.27
B-1@12	12/29/2009	12	603	0.71	12.3	19	103	0.013	0.021	<0.0029	<0.0029	<0.0029		10.0000	1	463		
B-1@12 B-1@15	12/29/2009	15	0.94	<0.0028	0.023	0.027	0.16	0.013	<0.014	<0.0029	<0.0029		-	<0.0029		16.3	55.2	7
B-1@20	12/29/2009	20	<0.25	<0.0028	<0.0030	<0.0030	<0.0059	0.017	<0.014	<0.0028	<0.0028	<0.0028 <0.0030	-	<0.0028 <0.0030	-	<2.0 2.2	<9.9 <10	6.2
B-1@24	12/29/2009	24	<0.23	<0.0027	<0.0030	<0.0030	<0.0059	0.021	<0.015	<0.0030	<0.0030	<0.0030	-	<0.0030	-	<2.0	<10 <10	<4.7 <4.8
B-1@30	12/29/2009	30	<0.25	<0.0030	<0.0027	<0.0027	<0.0060	<0.0030	<0.014	<0.0027	<0.0027	<0.0027		<0.0027		<2.0	<9.8	<4.8
B-2@5	12/29/2009	5	2.8	0.1	<0.0027	0.488	0.22	0.058	0.034	<0.0027	<0.0027	<0.0027	-	<0.0030	-	9.2	<10	10.1
B-2@10	12/29/2009	10	1.5	0.073	<0.0030	0.014	<0.0060	0.13	0.04	<0.0030	<0.0027	<0.0030		<0.0030		4	<9.9	6.3
B-2@20	12/29/2009	20	<0.24	<0.0028	<0.0028	<0.0028	<0.0057	<0.0028	<0.014	<0.0028	<0.0028	<0.0028		<0.0028		<2.0	<10	5.5
B-2@24	12/29/2009	24	42.2	0.027	<0.0028	0.94	2.3	0.031	0.017	<0.0028	<0.0028	<0.0028		<0.0028		27.2	79.8	7
8-2@28	12/29/2009	28	<0.23	<0.0028	<0.0028	<0.0028	<0.0056	<0.0028	<0.014	<0.0028	<0.0028	<0.0028		<0.0028		<2.0	<9.8	4.1
B-3@5	12/29/2009	5	<0.24	<0.0029	<0.0029	<0.0029	<0.0057	0.043	0.042	<0.0029	<0.0029	<0.0029		<0.0029		2.2	<9.9	19.7
B-3@10	12/29/2009	10	<0.24	<0.0028	<0.0028	<0.0028	<0.0057	0.044	0.023	<0.0028	<0.0028	<0.0028	-	<0.0028	-	2	<10	7.6
B-3@15	12/29/2009	15	<0.22	<0.0026	<0.0026	<0.0026	<0.0052	<0.0026	<0.013	<0.0026	<0.0026	<0.0026		<0.0026		<2.0	<9.9	5.7
B-3@20.5	12/29/2009	20.5	<0.25	<0.0030	<0.0030	<0.0030	<0.0060	0.0081	<0.015	<0.0030	<0.0030	<0.0030		<0.0030		2.2	18.7	5.8
B-3@24.5	12/29/2009	24.5	<0.25	<0.0030	<0.0030	<0.0030	<0.0059	0.0071	<0.015	<0.0030	<0.0030	<0.0030		<0.0030		11.1	174	8.2
B-3@28	12/29/2009	28	<0.23	<0.0027	<0.0027	<0.0027	<0.0055	<0.0027	<0.014	<0.0027	<0.0027	<0.0027		<0.0027		<2.0	<9.8	4.9
B-4@5	12/30/2009	5	<0.25	<0.0030	<0.0030	<0.0030	<0.0060	<0.0030	<0.015	<0.0030	<0.0030	<0.0030		<0.0030		22.5	379	37.9
B-4@10	12/30/2009	10	<0.25	<0.0030	<0.0030	<0.0030	<0.0059	<0.0030	<0.015	<0.0030	<0.0030	<0.0030		<0.0030		4	51.2	14.3
B-4@20	12/30/2009	20	<0.25	<0.0029	<0.0029	<0.0029	<0.0059	<0.0029	<0.015	<0.0029	<0.0029	<0.0029		<0.0029		<2.0	<9.9	4.9
B-4@28	12/30/2009	28	<0.24	<0.0029	<0.0029	<0.0029	<0.0058	<0.0029	<0.015	<0.0029	<0.0029	<0.0029	<del>-</del>	<0.0029		<2.0	<9.9	5.5
B-5@5	12/30/2009	5	<0.25	<0.0030	<0.0030	<0.0030	<0.0059	<0.0030	<0.015	<0.0030	<0.0030	<0.0030	-	<0.0030		3.6	40.1	15.4
B-5@12	12/30/2009	12	<0.24	<0.0029	0.0037	<0.0029	<0.0058	<0.0029	<0.014	<0.0029	<0.0029	<0.0029		<0.0029		11.6	247	8.4
B-5@15	12/30/2009	15 20	<0.25	<0.0029	<0.0029	<0.0029	<0.0059	<0.0029	<0.015	<0.0029	<0.0029	<0.0029		<0.0029		<2.0	<9.9	6.1
B-5@20 B-5@25	12/30/2009 12/30/2009	25	<0.23 <0.25	<0.0028 <0.0030	<0.0028 <0.0030	<0.0028 <0.0030	<0.0056 <0.0059	<0.0028	<0.014 <0.015	<0.0028	<0.0028	<0.0028		<0.0028		<2.0 <2.0	<10	6.5
B-5@28	12/30/2009	28	<0.24	<0.0030	<0.0030	<0.0030	<0.0059	<0.0030	<0.015	<0.0030	<0.0030	<0.0030		<0.0030		2.5	<10	5.2
B-7@5	12/30/2009	5	<0.24	<0.0029	<0.0029	<0.0029	<0.0059	<0.0029	<0.015	<0.0029	<0.0029 <0.0029	<0.0029 <0.0029		<0.0029 <0.0029	-	63.7	23.5 582	6.3 22.1
B-7@10	12/30/2009	10	1.3	0.018	<0.0029	0.0035	<0.0059	0.21	0.093	<0.0029	<0.0029	<0.0030		<0.0029		5.7	<9.8	7.3
B-7@20	12/30/2009	20	<0.25	<0.0030	<0.0030	<0.0030	<0.0059	0.014	<0.015	<0.0030	<0.0030	<0.0030		<0.0030		<2.0	<9.9	5.8
B-7@24	12/30/2009	24	<0.22	<0.0027	<0.0027	<0.0027	<0.0053	<0.0027	<0.013	<0.0027	<0.0027	<0.0027		<0.0037	_	<2.0	<10	<4.5
ntea Group 201							, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		3.3.20	.0.0027	10.002/			10.0027				
MW-7d9	4/5/2011	9	289	0.061	0.034	4.3	8.4	0.042	0.018	<0.0024	<0.0024	<0.0024	<0.32	<0.0024	<0.0024		20.7	8.9
MW-7d16	4/5/2011	16	0.9 M1	0.017	0.037	0.054	0.24	0.013	<0.012	<0.0024	<0.0024	<0.0024	<0.32	<0.0024	<0.0024		788	13.9
MW-7d20	4/5/2011	20	<0.24	<0.0029	<0.0029	<0.0029	<0.0087	0.019	<0.012	<0.0029	- <0.0029	<0.0029	<0,39	<0.0029	<0.0029		<9.9	6.3
MW-8d9	4/5/2011	9	0.75	0.02	<0.0023	<0.003	<0.0089	0.086	0.023	<0.003	<0.0023	<0.0023	<0.39	<0.003	<0.003		<10	9.9
MW-8d13	4/5/2011	13	0.68	0.016	<0.0028	0.024	0.06	0.023	<0.014	<0.003	<0.0028	<0.0028	<0.37	<0.0028	<0.0028		852	15.7
MW-8d20	4/5/2011	20	<0.23	<0.0023	<0.0023	<0.0023	<0.007	<0.0023	<0.012	<0.0023	<0.0023	<0.0023	<0.31	<0.0023	<0.0023	-	<10	<4.1
MW-9d8	4/5/2011	8	<0.22	<0.0026	<0.0026	<0.0026	<0.0078	<0.0026	<0.013	<0.0026	<0.0026	<0.0026	<0.35	<0.0026	<0.0026		<9.7	8.9
MW-9d20	4/5/2011	20	<0.24	<0.0028	<0.0028	<0.0028	<0.0085	<0.0028	<0.014	<0.0028	<0.0028	<0.0028	<0.38	<0.0028	<0.0028	-	<9.8	5.3
MW-9d24	4/5/2011	24	<0.21	<0.0027	<0.0027	<0.0027	<0.0082	<0.0027	<0.014	<0.0027	<0.0027	<0.0027	<0.36	<0.0027	<0.0027		<9.9	6.4
MW-10d10	4/5/2011	10	<0.21	<0.0025	<0.0025	<0.0025	<0.0075	0.028	<0.012	<0.0025	<0.0025	<0.0025	<0.33	<0.0025	<0.0025	<2.0	<10	8.5
	4/5/2011	15	<0.25	<0.0026	<0.0026	0.0039	0.012	<0.0026	<0.013	<0.0026	<0.0026	<0.0026	<0.34	<0.0026	<0.0026	<1.9	<9.7	6.1
MW-10d15	4/5/2011		10.23	-0.000						70.0020	10.00	10.000		10.000	-0,000			

TPHg= BTEX = MTBE = TBA = TAME =

total petroleum hydrocarbons as gasoline by CA LUFT
benzene, toluene, ethyl-benzene, total xylenes by EPA Method 8260
methyl tertiary butyl ether by EPA Method 8260
tert butyl alcohol by EPA Method 8260
tert amyl methyl ether by EPA Method 8260
Diisopropyl ether by EPA Method 8260
Ethyl-tert-butyl-ether by EPA Method 8260
1,2-Dichloroethane by EPA Method 8260
1,2-Dichloroethane by EPA Method 8260
Diesel range organics by EPA Method 8015
Residual range organics by EPA Method 8015
Matrix Spike recovery exceeded QC limits. Batch accepted based on laboratory control sample recovery milligrams per kilogram
Below the laboratory's indicated reporting limit
Above the laboratory's indicated reporting limit
Not analyzed DIPE = ETBE = 1,2-DCA = EDB = DRO = RRO = M1 = mg/kg =

Not analyzed

US Environmental Protection Agency

### TABLE 2

# CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA

### 76 Service Station No. 6277 15803 EAST 14TH ST SAN LEANDRO, CALIFORNIA



			GROUNDWATER	GAUGING DATA				,			GROUND	WATER ANALYTI	CAL DATA					
Well I.D.	Date	TOC Elevation (ft)	Depth to Water (ft)		Water Elevation* (ft)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (uġ/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2- Dibromoethane (EDB) (ug/L)	1,2- Dichloroethane (ug/L)
MW-7	2/22/2012	34.60	9.53	NP	25.07	655	14.9	1.7	16.3	38.8	112	<0.50	<0.50	<0.50	10.9	<250	<1.0	<1.0
MW-8	2/22/2012	34.85	9.53	NP	25.32	308	<0.50	<0.50	<0.50	<1.5	45.9	<0.50	<0.50	<0.50	7.4	<250	<1.0	<1.0
MW-9	2/22/2012	35.09	9.81	NP	25.28	248	<0.50	<0.50	<0.50	<1.5	2.4	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-10	2/22/2012	36.00	10.78	NP	25.22	173	<0.50	<0.50	<0.50	<1.5	33.6	<0.50	<0.50	<0.50	5.3	<250	<1.0	<1.0

Gauging Notes:

TOC - Top of Casing

ft - Feet

NP - LNAPL not present

LNAPL - Light non-aqueous phase liquid

\* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)

-- - No information available

Analytical Notes:

< - Not detected at or above indicated laboratory reporting limit

ug/L - micrograms/liter

TPHg-Total Petroleum Hydrocarbons as gasoline

MTBE- Methyl tertiary-butyl ether

TBA- Tertiary-butyl alcohol

DIPE- Di-isopropyl ether

ETBE- Ethyl tertiary-butyl ether TAME- Tertiary-amyl methyl ether

### TABLE 3 HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA 76 Service Station No. 6277 15803 EAST 14TH ST SAN LEANDRO, CALIFORNIA



			GROUNDWATER	GAUGING DATA							GROUND	WATER ANALYTI	CAL DATA					
Well I.D.	Date	TOC Elevation (ft)	Depth to Water (ft)		Water Elevation* (ft)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2- Dibromoethane (EDB) (ug/L)	1,2- Dichloroethane (ug/L)
	4/18/2011	34.60	9.40	NP	25.20	2,420	22.4	12.4	11.3	449	152	<0.50	<0.50	<0.50	5.7	<250	<1.0	<1.0
MW-7	7/26/2011	34.60	9.43	NP	25.17	1,770	27.3	18.9	66.4	341	102	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
10100-3	10/14/2011	34.60	9.37	NP	25.23	1,480	45.0	6.6	58.2	184	110	<0.50	<0.50	<0.50	23.0	<250	<1.0	<1.0
	2/22/2012	34.60	9.53	NP	25.07	655	14.9	1.7	16.3	38.8	112	<0.50	<0.50	<0.50	10.9	<250	<1.0	<1.0
	4/18/2011	34.85	9.40	NP	25.45	439	1.4	0.75	2.8	14.2	28.3	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-8	7/26/2011	34.85	9.42	NP	25.43	336	4.0	<0.50	<0.50	<1.5	42.7	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
10100-0	10/14/2011	34.85	9.35	NP	25.50	221	2.2	<0.50	<0.50	<1.5	30.7	<0.50	<0.50	<0.50	5.5	<250	<1.0	<1.0
	2/22/2012	34.85	9.53	NP	25.32	308	<0.50	<0.50	<0.50	<1.5	45.9	<0.50	<0.50	<0.50	7.4	<250	<1.0	<1.0
	4/18/2011	35.09	9.55	NP	25.54	208	<0.50	<0.50	<0.50	<1.5	1.6	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-9	7/26/2011	35.09	9.58	NP	25.51	176	<0.50	<0.50	<0.50	<1.5	1.7	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
10100-5	10/14/2011	35.09	9.54	NP	25.55	154	<0.50	<0.50	<0.50	<1.5	2.2	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	2/22/2012	35.09	9.81	NP	25.28	248	<0.50	<0.50	<0.50	<1.5	2.4	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
	4/18/2011	36.00	10.55	NP	25.45	513	<0.50	<0.50	6.9	40.0	14.9	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-10	7/26/2011	36.00	10.74	NP	25.26	169	<0.50	<0.50	1.4	<1.5	22.9	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MINN-TO	10/14/2011	36.00	10.75	NP	25.25	141	<0.50	<0.50	0.59	<1.5	29.7	<0.50	<0.50	<0.50	6.1	<250	<1.0	<1.0
	2/22/2012	36.00	10.78	NP	25.22	173	<0.50	<0.50	<0.50	<1.5	33.6	<0.50	<0.50	<0.50	5.3	<250	<1.0	<1.0

Gauging Notes: TOC - Top of Casing

ft - Feet

NP - LNAPL not present

LNAPL - Light non-aqueous phase liquid

\* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)

-- - No information available

< - Not detected at or above indicated laboratory reporting limit

ug/L - micrograms/liter

TPHg- Total Petroleum Hydrocarbons as gasoline MTBE- Methyl tertiary-butyl ether TBA- Tertiary-butyl alcohol

DIPE- Di-isopropyl ether

ETBE- Ethyl tertiary-butyl ether TAME- Tertiary-amyl methyl ether

Table 4

# HISTORICAL GRAB-GROUNDWATER ANALYTICAL DATA 76 Service Station No. 6277 15803 East 14th Street, San Leandro, California

EDB	(µg/L)										-	1	:	1	1		7	<1.0	<1.0	5														
1,2-DCA	(µg/L)		V 10	0.10	<10 <10	410	41.0	<1.0		1		ı	1	1	i		012	4.0	<1.0	0														
Ethanol	(µg/l)		<50	<50	<50	<50	<50	<50		-	1	1	1	ı	,		<250	<250	<250	<250														
ETBE	(µg/L)		8 <sup>0</sup> 0×	<0.8	<0.8	<0.8	<0.8	<0.8		<1.0	<1.0	<1.0	<1.0	<1.0	41.0		<0.50	<0.50	<0.50	<0.50														
DIPE	(µg/L)		<0.8	<0.8	\$0°	\$0.8	<0.8	<0.8		47.0	410	<1.0	<1.0	<1.0	<1.0		<0.50	<0.50	<0.50	<0.50														
TAME	(µg/L)		<0.8	<0.8	<0.8	<0.8	<b>40.8</b>	<0.8		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<0.50	<0.50	<0.50	<0.50														
TBA	(µg/L)		<10	<10	<10	<10	<10	<10		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		5.7	<5.0	<5.0	<5.0														
MTBE	(1/8rl)		7	210	<0.5	37	9	<0.5		80.2	7.3	5.8	2	<1.0	59.5		152	28.3	1.6	14.9														
rotal Xylenes	(µg/L)		7	117	630	1,040	400	<5.0		357	47.7	3.2	<3.0	<3.0	284		449	14.2	<1.5	40														
Ethyl-benzene Total Xylenes	(µg/l)		<5.0	27	160	300	110	<5.0		114	26.9	1.2	<1.0	<1.0	61.1		11.3	2.8	<0.50	6.9														
Toluene	(µg/L)		<5.0	<5.0	<5.0	120	64	<5.0		56	<1.0	<1.0	<1.0	<1.0	6.9		12.4	0.75	<0.50	<0.50				0978 001										
Benzene	(µg/L)		<5.0	39	<5.0	09	33	<5.0		6.98	22	<1.0	<1.0	<1.0	4.7		22.4	1.4	<0.50	<0.50		A LUFI		by EPA Metho								t	£	
DRO	(µg/L)		15,000	5,200	8,100	1,900	810	910		494	372	311	411	188	479		1	1	,	;	-	s gasoline by C	SCTUS BOUTS	e, total xylenes thod 8260	d 8260	1ethod 8260	d 8260	ethod 8260	hod 8260	hod 8260		f reporting limi	d reporting lim	gency
TP4g	(hg/r)		140	860	3,700	6,400	2,500	93		2,110	858	254	158	104	1,340		2,420	439	208	513	-	yarocarbons a	nics by EPA ivit	, ethyl-benzen er hv FPA Mei	by EPA Metho	ther by EPA N	by EPA Metho	ther by EPA Me	e by EPA Meti	ne by EPA Met.	ter	ory's indicated	tory's indicated	Protection Ag
Date			9/25/2007	9/25/2007	9/25/2007	9/26/2007	9/26/2007	9/26/2007		12/29/2009	12/29/2009	12/29/2009	12/30/2009	12/30/2009	12/30/2009		4/18/2011	4/18/2011	4/18/2011	4/18/2011		Cotal petroleum nydrocarbons as gasoline by CA LUFT	Diesel range organics by EPA Method 80158	Defizerie, toluerie, etilyi-benzene, total xylenes by EPA Metr Methyl t-bityl Fther by FDA Method 8260	tert butyl alcohol by EPA Method 8260	Tert-amylmethyl ether by EPA Method 8260	Diisopropyl ether by EPA Method 8260	Ethyl-tert-butyl-ether by EPA Method 8260	1,2-Dichloroethane by EPA Method 8260	1,2-Dibromoethane by EPA Method 8260	micrograms per liter	Below the laboratory's indicated reporting limit	Above the laboratory's indicated reporting limit	US Environmental Protection Agency Not analyzed
Sample ID		ATC 2007	ATC-1	ATC-2	ATC-3	ATC-4	ATC-5	ATC-6	Delta 2009	B-1	B-2	B-3	B-4	B-5	B-7	Antea Group 2011	MW-7	MW-8	MW-9	MW-10	Notes:	= 8m1	DNO =	MTBE =	TBA =	TAME =	DIPE =	ETBE =	1,2-DCA =	EDB=	mg/L =	11 : V 1	Bold =	EPA =

TABLE 5
Well Construction Details
76 Service Station No. 6277
15803 East 14th Street
San Leandro, Ca

nts	1			
Comments				
Cement Seal Interval (feet bgs)	, ,	<u> </u>		· 1-
Bentonite Seal Interval (feet bgs)	2.7	2 %	2-8	2-2
Filter Pack Interval (feet bgs)	8-20	8-20	8-24	8-20
Screened Interval (feet bgs)	9-10	9-20	9-24	9-20
Slot Size (inches)	0.00	0.02	0.02	0.02
Casing Material	PVC	EVC .	PVC	PVC
Casing Diameter (inches)	2	. 2	2	2
Borehole Diameter (inches)	8	80	œ	8
Boring Depth (feet bgs)	20	20	24	20
Elevation (TOC feet above MSL)	34.60	34.85	35.09	36.00
Well I.D. Construction Date Groundwater Monitoring Wells	04/05/11	04/05/11	04/05/11	04/05/11
Well I.D. Groundwater M	MW-7	MW-8	MW-9	MW-10

1

bgs = below ground surface

TOC = top of casing

MSL ≃ mean sea fevel

— = Not available

Elevations are in US survey feet, Vertical Datum is NGVD29

Case Closure Request 76 Service Station No. 6277 Antea Group Project No. I40256277



## Appendix A

Historical Boring Logs

Projec Numb	ConocoPh t Name Co er 34.7511 on 15803 E SAMPLE NO.	nocoPhi 8.3151	Illips Site	San L		7 Drill Method Geoprobe Elevation (ft amst) —  Drilling Started 9/25/07 Ended 9/25/07 Total Depth 25.0	T10F1
5	CT ATC-1-10 CT ATC-1-12		6.1	СН		CLAY. Very dark gray. High plasticity. Dry.  CLAY. Very dark gray.	- - - - - - - - - -
15 —	CT ATC-1-15		1.6	CL ML		SILTY CLAY. 80% clay. 20% silt. Reddish gray, High plasticity. Dry.  CLAY. Black, High plasticity. Slightly damp.	15    20
25	CT ATC-1-25		0.0	CL		Bottom of hole at 25 feet	- 25
W W	ASSODIAT	es inc	ີ 1 # F	empe hone	, Arizo : 480.8	Remarks: Groundwater encountered at approximately 24' bgs.  94.2056 4.2497  See key sheet for symbols and abbreviations used above.	

LOG A EWINNOS 256277 BORING LOGS,GPJ LOG A EWINNOS,GDT 10/17/07

Projec	ConocoPhi of Name Co er 34.7511	nocoPhi		No.	25627	Drill Contractor Vironex  7 Drill Method Geoprobe  Drilling Started 9/25/07 Ended 9/25/07	LOG OF BOR Elevation (ft amsi) Total Depth 20.0	SHEET 1 OF 1
Locati	on <u>15803 E</u>	ast 14th	Street,	San L	eandr	o, CA Logged By Jonathan Flomerfelt	Depth To Water	ATD 20.0
DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	nscs	LITHOLOGY	DESCRIPTION		DEPTH
5 - 10	CT ATC-2-10 CT ATC-2-12		81.9	CL ML		Alrknifed to 5'.  SILTY CLAY, 80% clay, 20% slit. Black, Dry.		5 
15 —	CT ATC-2-15		1.8	сн		i CLAY. Pale red. High plasticity. Damp.		
20 —	CT ATC-2-20		0.0	CL ML		Bottom of hole at 20 feet  Bottom of hole at 20 feet  No. 5289	ticlly. Damp.	20 - - - - -25
	ASSOCIAT	E S INC	T	empe, 'hone:	Arizo:	Date Expires  Date Expires  Ave., Ste 107  na 85284 94.2056 4.2497  See key sheet for symbols and abbreviations used		-

LOG A EWINNOS 255277 BORING LOGS.GPJ LOG A EWINNOS,GDT 10/17/07

Projec Numbe		onoçoPhil 8,3151 East 14th	llips Site	San L	256277 _eandro, C	Drill Method Geoprobe Elevation (ft amsi)  Drilling Started 9/25/07 Ended 9/25/07 Total Depth 20.0	TD 18.0
(feet)	NO.	BLOWS/6"	(ppm)	nscs	LITHOLOGY	DESCRIPTION richifed to 5'.	DEPTH FEET
5	. CT			СН		AYEY SILT. Gray with some oxidation staining. Low plasticity. Dry.	5
10 —	CT ATC-3-10 CT ATC-3-12		794	сн	CL	AY. Very dark gray.	10 
15 -	CT ATC-3-15		1,4	CL ML	33333	TY CLAY. Light yellowish brown. Medium plasticity. Dry.  AY. Grayish brown. High plasticity. Damp.	15
20 -	CT ATC-3-18		1.6		Blac	Boltom of hole at 20 feet	20
25 -						No. 5289  No. 5289  No. 5289  A GO TO TO THE EXPINE TO CALIFORNIA	- - 25 - -
			Te	empe, 'hone:	rmer Ave. Arizona 8 : 480.894.:	35284	<u> </u>

LOG A EWINNOS 256277 BORING LOGS, GPJ LOG A EWINNOS, GDT 10/17/07

See key sheet for symbols and abbreviations used above.

Projec	ConocoPh	nocoPhi		No. 25	56277	·	obe	07	LOG OF BOF	RING ATC- SHEET 1 OF —
	er <u>34.7511</u> on <u>15803 E</u>		Street,	San Le	andro, CA		5/07 Ended <u>9/25/0</u> n Flomerfelt		Total Depth 20.0 \( \sum_{\text{Depth}} \text{To Water} \)	ATD 20.0
DEPTH (feet)	SAMPLE NO.	BLOWs/6"	PID (ppm)	nscs	LITHOLOGY		DESCRIPT	TION		DEPTH
5	CT ATC-4-S		2272			fed to 5'. EY SILT. 80% silt. 20	% day. Dark bluish gra	ny. Damp.		5
10 —	CT ATC-4-10		885	МН	CLAY.	Dark greenish gray.				- - - - 10
15 —	CT ATC-4-15		19.4	CL ML	SILTY	CLAY. 75% day. 25%	% silt. Light yellowish br	rown, Medit	um to hìgh plasticfty. Dam	ър
20 -	CT ATC-4-20		10.4	СН	CLAY.	Very pale brown. High	h plasticity. Damp to mo Bottom of hole at			20
25			The second secon		**	No. 5289  6/30/10  Date Expires  OF CALLEGE	A SM			- 25 - -
(W	ASSOCIAT	ES INC	T F	empe, A hone: 4	ner Ave., Si Arizona 852 80.894.205 0.894.2497	e 107 84 66	Groundwater encounter		•	

Client ConocoPhillips Company	Drill Contractor Vironex	LOG OF BORING ATC-5
Project Name ConocoPhillips Site No. 256277	Drill Method Geoprobe	SHEET 1 OF 1 Elevation (ft amsl)
Number <u>34.75118.3151</u>	Drilling Started 9/26/07 Ended 9/26/07	Total Depth 20.0
Location 15803 East 14th Street, San Leandro, CA	Logged By Jonathan Flomerfelt	Depth To Water ATD 20.0
DEPTH SAMPLE SAMPLE (feet) NO. (ppm) PID SOS	DESCRIPTION	DEPTH FEET
5 — CT 846 — CLAY	fed to 5'.  Black. Medium plasticity.	5
10 — CT ATC-5-10 118 MH	EY SfLT. 75% silt. 25% clay. Dark gray. Dry. CLAY. 80% clay. 20% silt. Pale brown. High plasticity	— 10 - Damp.
15 — CT ATC-5-15 14.3 CL ML		- - 15 - -
20 — CT ATC-5-20 0.0 CH CLAY.	White. High plasticity. Damp.  Bottom of hole at 20 feet	
25 —	No. 5289  A GALIFORNI  OF CALIFORNI  OF CALI	15 Mayer -25
9185 S. Farmer Ava., St Tempe, Arizona 852t Phone: 480.894.205 Fax: 480.894.2497	6	

LOG A EWINNOS 256277 BORING LOGS.GPJ LOG A EWINNOS.GDT 10/17/07

Client	ConocoPh	illips Co	mpanv			Drill Contractor Vironex	LOG OF BO	
	Name Co			e No.	25627		Elevation (ft amsl)	SHEET 1 OF 1
Numb	er 34.7511	8,3151				Ordiling Started 9/25/07 Ended 9/25/07	Total Depth 25.0	-
Locati	on <u>15803 E</u>	ast 14th	ı Street,	San L	eandr	o, CA Logged By Jonalhan Flomerfelt	Depth To Water	ATD 18.0
DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	nscs	LITHOLOGY	DESCRIPTION		DEPTH
5 -		·				Airknifed to 5' bgs.  No recovery.		5
10	CT ATC-B-12		1096	сн		CLAY, Dark gray. SILTY CLAY. 75% clay. 25% silt. Pale brown. High plasticity.	Damp.	- - - - - - - - -
15				GL ML		No. 5289		- - - - - - - - - - - - - -
25 —				THE PROPERTY OF THE PROPERTY O		Date Expres  Bottom of hole at 25 feet	•	- 25 
			9188	S. Fa	armer , Arizo : 480,8	Remarks: Groundwater encountered at appr na 85284 94.2056	oximately 18' bgs.	

See key sheet for symbols and abbreviations used above.

LOG A EWINNOS 256277 BORING LOGS.GPJ LOG A EWINNOS.GDT 10/17/07

-			· Marie	. 12114-01									
Г					•	Project No		1402562			Clie		ELT Boring No: B-1
ı						Logged B	y:	Ed Wey				tion:	15803 East 14th Street, San Leandro, CA Page 1 of 2
			P.	~ I + ~	- Aga	Driller:		Gregg D				Drilled:	12/30/2009 Location Map - See Site Map for Location
		ı	1	elta		Drilling Me	ethod:	Direct P	ush		Hole	Diameter:	
İ		NAME OF TAXABLE PARTY.	•	- B # #	<b>/</b> k	Sampling	Method:	Sample	Tube		Hole	Depih:	30'
ļ		Co	nst	iltants, In	C.	Casing Ty	pe:	-			Well	Diameter:	
i						Slot Size:		-				Depth:	= Static Groundwater
						Gravel Pa	ck:	-			Casi	ng Stickup:	
1							Elevation			Nor	lhing		Easting _
L		.,	******	-				····		,			
Ι,		Vell		•			5	ے ا	テ			60	
F	Com	_7			Static	Moisture Confent	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)		mple	Soil Type	LITHOLOOV LEPROPHETON
15		副		Well Details	Water Level	Sio	8 g	o et	돭	ě	Zal	등	LITHOLOGY / DESCRIPTION
Backell	3   3	Casmg	Backfill		revei	ΣÓ	윤 -	9 <del>0</del>	[2]	Recovery	interval	σ	,
1	1	_					<del> </del>	<u>-</u>	ļ	l Œ			411 - £ ) 13
ı							· ·	ΙŢ		<del> </del>		<u> </u>	4" of asphalt
	ļ	Ì				Moist			1	-	<b> </b>	CL	Lean Clay with Gravel: 80% clay, 5% fine
	ı		i		İ					-	ļ		grained sand, 15% fine gravel (angular to subangular),
1								[뿔]	2	<del> </del>	<u> </u>	<u> </u>	brown, moist, soft
	-	ļ						Air Knife				·	
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l		-							4	<del> </del>		CL _	Lean Clay: 95% clay, 5% fine grained sand,
l		- [				Moist				ļ		<u> </u>	black, moist, medium stiff
ı		ı						₩	5	ļ			
		- [	Ì			•			· .	<u>                                     </u>	<u> </u>	<u> </u>	NO RECOVERY
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			- 1			Moist	197						Lean Clay: 95% clay, 5% fine grained sand,
									13			<u> </u>	olive green, moist, medium stiff
			- }	1				ĺ				<u> </u>	
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Moist 2.6  Moist 2.6  CL Gravelly Lean Clay with Sand; 65% clay, 20% fine gravel (angular to subangular), 15% sand (fine to medium grained), olive green, moist, soft (fine to medium grained), olive green, moist, soft black, moist, medium stiff as above: turning olive green in color  8  9  10  Moist 1.0  Moist 1.0  Moist 0.9  Moist 0.9  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moist 1.0  Moi		<u> </u>	-,	<del></del>				4					4" of asphalt	······································	
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Moist 2.6  CL Sandy Lean Clay: 60% clay, 40% fine grained sand, black, moist, medium stiff  as above: turning olive green in color  as above: with 90% clay, 10% fine grained sand, turning dark brown in color  Moist 1.0  Moist 0.9  Well Graded Sand with Gravel: 85% sand (fine to medium grained), 15% fine gravel, dark brown, moist, loose Lean Clay: 95% clay, 5% fine gravel, dark brown, light brown, moist, medium stiff  10  Lean Clay: 95% clay, 5% fine grained sand, light brown, moist, medium stiff								<u>.</u> 22	ا ۾ ا						
Moist 2.6  CL Sandy Lean Clay: 60% clay, 40% fine grained sand, black, moist, medium stiff  as above: turning olive green in color  as above: with 90% clay, 10% fine grained sand, turning dark brown in color  Moist 1.0  Moist 0.9  Well Graded Sand with Gravel: 85% sand (fine to medium grained), 15% fine gravel, dark brown, moist, loose  Lean Clay: 95% clay, 5% fine gravel, dark brown, moist, medium stiff  17  18  19  20  CL Sandy Lean Clay: 60% clay, 40% fine grained sand, light brown, moist, medium stiff								[출]	2-						
Moist 2.6  CL Sandy Lean Clay: 60% clay, 40% fine grained sand, black, moist, medium stiff  as above: turning olive green in color  as above: with 90% clay, 10% fine grained sand, turning dark brown in color  Moist 1.0  Moist 0.9  Well Graded Sand with Gravel: 85% sand (fine to medium grained), 15% fine gravel, dark brown, moist, loose  Lean Clay: 95% clay, 5% fine gravel, dark brown, moist, medium stiff  17  18  19  20  CL Sandy Lean Clay: 60% clay, 40% fine grained sand, light brown, moist, medium stiff									3.						
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Logged By: Ed Weyrens Location: 15803 East 14th Street, San Leandro, CA Page 2 of 2  Driller: Gregg Drilling Date Drilled: 12/29/2009 Drilling Method: Direct Push Hole Diameter: 2"  Sampling Method: Sample Tube Hole Depth: 28'  Casing Type: - Well Diameter: -  Slot Size: - Well Depth: -  Gravel Pack: - Casing Stickup: -  Elevation Northing Easting  Well  Static Page 2 of 2  Location Mop - See Site Mep for Location  Location Mop - See Site Mep for Location  Location Mop - See Site Mep for Location  Location Mop - See Site Mep for Location  Location Mop - See Site Mep for Location  Well Depth: -  First Water  Casing Stickup: -  Elevation Northing Easting										,				
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Moist 8.4  21 Silty Sand with Gravel: 50% sand (fine to medium grained), 30% silt, 20% fine gravel (rounded), light brown, moist, loose  23 ML Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, loose  Wet 1.7  25 SW. Well Graded Sand with Silt and Gravel: 75% sand (fine to coarse grained), 15% fine gravel, 10% silt, light brown, wet, loose  ML Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, loose  Well Graded Sand with Silt and Gravel: 75% sand (fine to coarse grained), 15% fine gravel, 10% silt, light brown, met, loose  Boring terminated at 28 feet below ground surface.  Boring terminated at 28 feet below ground surface.  33 Sand Sand Sand Sand Sand Sand Sand Sand					Static	8 =	l gu	ig (c	(get)	Sample	g			
Moist 8.4  21 Silty Sand with Gravel: 50% sand (fine to medium grained), 30% silt, 20% fine gravel (rounded), light brown, moist, loose  23 ML Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, loose  Wet 1.7  25 SW. Well Graded Sand with Silt and Gravel: 75% sand (fine to coarse grained), 15% fine gravel, 10% silt, light brown, wet, loose  ML Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, loose  Well Graded Sand with Silt and Gravel: 75% sand (fine to coarse grained), 15% fine gravel, 10% silt, light brown, met, loose  Boring terminated at 28 feet below ground surface.  Boring terminated at 28 feet below ground surface.  33 Sand Sand Sand Sand Sand Sand Sand Sand	<del>≓</del> T	Ď	唐	Well Details		istu .	g ge	etra ws/	(E)	ੂ <sub>ਕ</sub>	E		LITHOLOGY / DESCRIPTION	NC
Moist 8.4  21 Silty Sand with Gravel: 50% sand (fine to medium grained), 30% silt, 20% fine gravel (rounded), light brown, moist, loose  23 ML Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, loose  Wet 1.7  25 SW. Well Graded Sand with Silt and Gravel: 75% sand (fine to coarse grained), 15% fine gravel, 10% silt, light brown, wet, loose  ML Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, loose  Well Graded Sand with Silt and Gravel: 75% sand (fine to coarse grained), 15% fine gravel, 10% silt, light brown, met, loose  Boring terminated at 28 feet below ground surface.  Boring terminated at 28 feet below ground surface.  33 Sand Sand Sand Sand Sand Sand Sand Sand	Backfill	asin	凝		Level	ဋိပိ	و ق	[E E ]	e e	lery Sove	SS			•
grained), 30% silt, 20% fine gravel (rounded), light brown, moist, loose    Vet   1.7   25   SW   Well Graded Sand with Silt and Gravel: 75% sand (fine to coarse grained), 15% fine gravel, 10% silt, light brown, wet, loose 10% silt, light brown, moist, 20% fine grained sand, light brown, moist, 20% fine grained sand, light brown, moist, medium dense 28   Boring terminated at 28 feet below ground surface.    Wet   1.7   SW   Well Graded Sand with Silt and Gravel: 75% sand (fine to coarse grained), 15% fine grained sand, light brown, moist, 20% fine grained sand, light brown, moist, 20% fine grained sand, light brown, moist, 20% fine grained sand, light brown, moist, 20% fine grained sand, light brown, moist, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, light brown, 31, 20% fine grained sand, 31, 32, 33, 34, 34, 34, 35, 34, 34, 34, 35, 34, 34, 34, 35, 34, 34, 34, 34, 34, 34, 34, 34, 34, 34	ă l	Ö	ŭ		İ	<u></u>				F. Re	·			
Silt with Sand: 80% slit, 20% fine grained sand, light brown, moist, loose   SW   Silt with Sand: 80% slit, 20% fine grained sand, light brown, moist, loose   SW   SW   Swand fine to coarse grained), 15% fine gravel, 10% slit, light brown, wet, loose   SW   Silt with Sand: 80% slit, 20% fine grained sand, light brown, moist, medium dense   Swand: 80% slit, 20% fine grained sand, light brown, moist, medium dense   Swand: 80% slit, 20% fine grained sand, light brown, moist, medium dense   Swand: 80% slit, 20% fine grained sand, light brown, moist, medium dense   Swand: 80% slit, 20% fine grained sand, light brown, moist, medium dense   Swand: 80% slit, 20% fine grained sand, light brown, moist, medium dense   Swand: 80% slit, 20% fine grained sand, light brown, moist, medium dense   Swand: 80% slit, 20% fine grained sand, light brown, moist, medium dense   Swand: 80% slit, 20% fine grained sand, light brown, moist, medium dense   Swand: 80% slit, 20% fine grained sand, light brown, moist, medium dense   Swand: 80% slit, 20% fine grained sand, light brown, moist, medium dense   Swand: 80% slit, 20% fine grained sand, light brown, moist, medium dense   Swand: 80% slit, 20% fine grained sand, light brown, moist, medium dense   Swand: 80% slit, 20% fine grained, 15% fine gravel, 10% slit, with Sand: 80% slit, 20% fine gravel, 10% slit, with Sand: 80% slit, 20% fine gravel, 10% slit, with Sand: 80% slit, 20% fine gravel, 10% slit, with Sand: 80% slit, 20% fine gravel, 10% slit, with Sand: 80% slit, 20% fine gravel, 10% slit, with Sand: 80% slit, 20% fine gravel, 10% slit, with Sand: 80% slit, 20% fine gravel, 10% slit, with Sand: 80% slit, 20% fine gravel, 10% slit, with Sand: 80% slit, 20% fine gravel, 10% slit, with Sand: 80% slit, 20% fine gravel, 10% slit, with Sand: 80% slit, 20% fine gravel, 10% slit, with Sand: 80% slit, 20% fine gravel, 10% slit, with Sand: 80% slit, 20% fine gravel, 10% slit, with Sand: 80% slit, 20% slit, 20% slit, 20% slit, with Sand: 80% slit, 20% slit, 20% slit, 20% slit, 20% slit, 20%					· .	Moist	8.4		١.		SM			
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Wet 1.7  Wet 1.7  Wet 1.7  Wet 1.7  Wet 1.7  Wet 1.7  SW- SM Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, loose  SW- SM SM Silt with Sand with Silt and Gravet: 75% sand (fine to coarse grained), 15% fine gravel, 10% silt, light brown, wet, loose Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, medium dense  Boring terminated at 28 feet below ground surface.  Boring terminated at 28 feet below ground surface.  33  34  35  36  37  38  39									-		_	light brown, n	noist, loose	
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Wet 1.7  25 SW-Well Graded Sand with Silt and Gravel: 75% sand (fine to coarse grained), 15% fine gravel, 10% silt, light brown, wet, loose 27 ML Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, medium dense  28 Boring terminated at 28 feet below ground surface.  29 Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, medium dense  30 Boring terminated at 28 feet below ground surface.  31 Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, medium dense 31 Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, medium dense 33 Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, medium dense 34 Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, medium dense 35 Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, medium dense 36 Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, medium dense									_	- 200	ML _			d sand,
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Moist 1.5  Sw. Well Graded Sand with Silt and Gravel: 75% sand (fine to coarse grained), 15% fine gravel, 10% silt, gight brown, wet, loose Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, medium dense  Boring terminated at 28 feet below ground surface.  Boring terminated at 28 feet below ground surface.  33 34 34 35 36 37 38 39				147-7	, _		-		-					
Moist 1.5    SM   75% sand (fine to coarse grained), 15% fine gravel, 10% silt, light brown, wet, loose Silt with Sand: 80% silt, 20% fine grained sand, light brown, moist, medium dense					$\mid \Sigma \mid$	vvet	1./	١.	25	100	63.07	187-11 O	0 1 111 011 10	•
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Moist 1.5  Moist 1.6  Mil Silf with Sand: 80% silt, 20% fine grained sand, light brown, moist, medium dense  Boring terminated at 23 feet below ground surface.  Boring terminated at 23 feet below ground surface.  33  34  35  36  37  38  39  39	1	ĺ							26	10700	SIVI _			ine gravei,
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Boring terminated at 28 feet below ground surface.  29  30  31  32  33  34  35  36  37  38  39						Moiet	1 4 5		-	2000 2000 2000 2000 2000 2000 2000 200	<u> </u>	ight brown, m	ioist, medium dense	
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						ly:					ation:	15803 East 14th Street, San Leandro, CA Page 2 of 2
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	io e		W -4		Driller:	y-	Gregg I				Drilled:	12/30/2009	Location Map - See Site Map for Location	Trage I of A
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1			elt	<b>A</b>		4.0	Gregg i			te Drilled:		Location Map - See Site Map for Location	•
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			ultants, l			g Method:	Sample	lube		le Depth:	32'	☑ = First Wate	r
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	elt		Drilling M	lethod:	Gregg I Direct F	_			ate Drille: ole Diam		Location Map - See Site Map for Location	
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Backfill Casing Backfill	Details	Water Level		Region	retra	g.	g	· 3	Soil Type		LITHOLOGY / DESCRIPT	TION
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				1	1 1	١.	-	╁┈	SW-		Sand with Silt and Gravel:	
						1		1	SM	70% sand (4	0% fine, 30% medium, 30% c	coarse grained)
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						8		_	sw	Well Graded	Sand: 85% fine to coarse gra	ined sand.
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			Wet	0.3	2	,				as above: dry (	0 24'	~~~
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Boring/Well No: MW-7 Project No: 140256277 Client: COP-ELT Page 1 of 1 Location: 15803 East 14th Street Logged By: ETW 4/5/2011 Driller: Date Drilled: Location Map Gregg 8" Hole Dlameter: Drilling Method: HSA anteagroup 20' Sampling Method: Direct Push Hole Depth: Well Diameter: 211 Casing Type: Well Depth: 19' Slot Size: 0.02 ▼ First Water Depth: 16' Gravel Pack: #3 ✓ Static Water Depth: 10¹ Northing: Elevation: Well Sample Identification PID Reading (ppm) Depth (feet) Sample Water Level Completion Soil Type Moisture Content Recovery Interval LITHOLOGY / DESCRIPTION Asphalt (4 inches thick) Class II AB Silty Sand; 65% sand, 30% sllt, 5% gravel (large), light brown to dark brown, dry, sand is fine to dry coarse grain ML Silt; 95% silt, 5% fine sand, olive green, dry dry 1.4 Clay, 95% clay, 5% fine sand, olive green, dry 7.4 MW-7d9 dry 10 11 15.  $\nabla$ Well graded sand w/ gravel; 80% sand, 15% gravel, wet 5.1 MW-7d16 5% slit, dark brown, wet, sand is fine to coarse grain, gravel is small wet Clay; 95% clay, 5% sand, dark brown, wet ML Sandy silt; 65% sllt, 35% fine sand, pale grey, wet wet 0.6 MW-7d20 TD = 20 feet bgs 21.

		Ĉ	Q		oject No: gged By:	140256 ETW	277		Clie Loca	nt: ntion:	COP-1	ELT 3 East 14th Street	ere en en en en en en en en en en en en en	Boring/Well No: MW-8 Page 1 of 1	
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	"(		<b>√</b> Drille	er:	Greģg		Đ	ațe Dri	lled:	4/5/2011	Location Map		
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Project No: 140256277 Client: COP-ELT Boring/Well No: MW-10 Page 1 of 1 Logged By: ETW Location: 15803 East 14th Street Driller: Gregg Date Drilled: 4/5/2011 Location Hap Drilling Method: HSA Hole Diameter: anteagroup Sampling Method: Direct Push Hole Depth: 201 Casing Type: PVC Well Diameter: 2n. Slot Size: 0.02 Well Depth: 201 ▼ First Water Depth: Gravel Pack: #3 ☑ Static Water Depth: 11.20' Elevation: Northing: Easting: Well Sample Identification PID Reading (ppm) Completion Sample Water Level Moisture Confent Soil Type Interval LITHOLOGY / DESCRIPTION Asphalt (4 inches thick) Class II AB Well graded gravel w/ sand; 55% gravel, 45% sand, dry brown, dry, sand is fine to coarse grain, gravel is large, CL Clay w/ sand; 85% clay, 15% fine sand, black, dry dry 5.7 0.7 Clay; 95% clay, 5% fine sand, black, moist, strong odor moist 1 MW-10d10  $\nabla$ Dark brown SC Clayey sand; 75% fine sand, 25% clay, light brown, moist 1.1 MW-10d15 molst 16-CL Clay; 90% clay, 10% fine sand, brown, molst moist Dark brown 0.9MW-10d20 TD = 20 feet bgs

Case Closure Request
76 Service Station No. 6277
Antea Group Project No. 140256277



## Appendix B

Historical Groundwater Flow Direction and Gradient Data and Rose Diagram

Historical Groundwater Gradient and Flow Direction Data 76 Service Station No. 6277 15803 East 14th Street San Leandro, California

Site	Monitoring Date	Groundwater Gradient							Groun	dwater	Flow D	irection						
		(feet per foot)	N /	NNE	∴NE	ENE	: E	ESE	SE	SSE	S	SSW	SW	WSW	. W	WNW	NW	NNW
6277	04/18/11 07/26/11 10/14/11 02/22/12	0.003 0.004 0.005 0.002	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 1 1	0 0
		0.004 Average	0	0	0	0	0	0	0	. 0	0	0	0	0	0	0	3	1

Explanation

NA = Not available

Number of Events = 4

Historical Groundwater Flow Directions 76 Service Station No. 6277

76 Service Station No. 6277 15803 East 14th Street San leandro, California

