

THE SAN JOAQUIN COMPANY INC.  
1120 HOLLYWOOD AVENUE, SUITE 3, OAKLAND, CALIFORNIA 94602

## Groundwater Quality Monitoring Report September 2009

Oak Walk Site  
Emeryville, California

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Alameda County  
Environmental Health



*for*

**Bay Rock Oaks, LLC**

December 2009

Project No.: 0004.087

## BAYROCK OAKS, LLC

Alameda County Environmental Health Care Services  
Local Oversight Program  
1131 Harbor Way Parkway, Suite 250  
Alameda, California 94502-6577

Date: December 10, 2009

Your Reference: RO2733

Attn. Mr. Steven Plunkett

**SUBJECT: Groundwater Quality Monitoring Report - September - Oak Walk Site, Emeryville California**

**Dear Mr. Plunkett:**

A copy of the: *Groundwater Quality Monitoring Report - September 2009 - Oak Walk Site, Emeryville California*, prepared by our consultants, The San Joaquin Company Inc. (SJC), is herewith submitted electronically to the Alameda County Environmental Health Care Services CEH website.

With respect to the report I state the following: *I declare, under penalty of perjury, that the information and recommendations contained in the attached report are true and correct to the best of my knowledge.*

If you have any technical questions about the report please call Dr. Watkins at (510) 336-9118. For administrative questions please call me at (510) 594-8811 Ext. 205.

Sincerely,



Marilyn Ponte  
Bay Rock Oaks, LLC

cc: Dr. Dai Watkins, The San Joaquin Company Inc.

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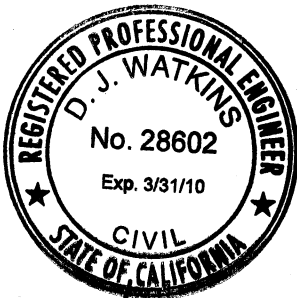
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## PROFESSIONAL CERTIFICATION AND LIMITATIONS

This report was prepared under the direction of the engineer whose seal and signature appear below. The work was performed in accordance with generally accepted standards of engineering practice based on information available to us at the time of its preparation and within the limits of the scope of work directed by the client. No other representation, express or implied, and no warranty or guarantee is included or intended as to professional opinions, recommendations, or field or laboratory data provided.



*D. J. Watkins*  
*12/09/2009.*

D. J. Watkins, Ph.D., P.E.  
Civil Engineer  
The San Joaquin Company Inc.

## 1.0 INTRODUCTION

This groundwater-quality monitoring report was prepared by The San Joaquin Company Inc. (**SJC**) of Oakland, California for the Oak Walk Site in the city of Emeryville, California. The site location is shown on Figure 1. The site occupies a major part of the city block that is bounded by 41st Street, Adeline Street, 40th Street and San Pablo Avenue. It has a total area of some 75,294 sq. ft. (1.73 acres). Figure 2 is a site plan. Figure 3 shows the neighborhood setting of the Oak Walk Site.

The property is owned by Bay Rock Oaks, LLC (**Bay Rock Oaks**) of Emeryville California, a California Limited Liability Company. SJC prepared this remediation report for Bay Rock Oaks.

Soil and groundwater beneath the property has been affected by the release of fuel hydrocarbons and industrial solvents the sources of which were underground storage tanks formerly located at several off- and on-site locations.

### 1.2 Site North

As is shown on Figure 3, true north at the Oak Walk Site is slightly to the west of the center line of Adeline Street, which runs along the eastern side of the city block on which the Oak Walk property is located. However, to simplify discussion, in this report we have established a "Site North" that parallels the alignment of San Pablo Avenue, which runs along the western side of the property. Unless otherwise stated, all compass directions used in this text should be interpreted in the context of that directional construct.

### 1.3 Topography

The site has a mean elevation close to 45.5 ft. above the National Vertical Datum (**NVD**). At the scale of the property as a whole, it has a downward slope from east to west (*i.e.*, from Adeline Street to San Pablo Avenue). Along the subject property's southern frontage, 40th Street slopes down toward San Pablo Avenue at a gradient of 1.35%, while along the northern frontage on 41st Street the corresponding slope is only 0.78%.

The whole of the Oak Walk Site is surrounded by public streets except along its eastern boundary, beyond which are residential sites that front onto Adeline and 41st Streets (see Figure 3).

### 1.4 Site History

The whole of the property was cleared for redevelopment in 2004 and the new construction shown on Figure 2 was completed in January 2009. Prior to its redevelopment, the site had been occupied by residences, some of which had been present since the late 1800s, and commercial structures that had been developed in the early years of the 20th Century through the 1970s (The San Joaquin Company Inc. 2009a).

The Oak Walk Site now includes three new structures that are designated Buildings 1, 2, and 3 on Figure 2. Building 1 is located at the intersection of 40th Street and San Pablo Avenue. Its ground floor is occupied by two large retail spaces. Above that are one one-bedroom and one two-bedroom condominium residence. The commercial spaces on the ground floor of Building 1 have the addresses 4000 and 4010 San Pablo Avenue. The residences on the upper floor have the addresses 4002 and 4008 San Pablo Avenue.

Building 2, which has three stories, is located at the northwestern corner of the site at the intersection of 41st Street and San Pablo Avenue. The ground floor of that structure includes a retail space, two two-bedroom town homes and one three-bedroom town home. The upper floors of that building feature two one-bedroom condominiums and two two-bedroom condominiums. The commercial space on the ground floor of Building 2 has the address 4098 San Pablo Avenue. The residences on the ground floor have the addresses 1087, 1089 and 1091 41st Street. The four units on the upper floors of that building have the addresses 1093, 1095, 1097 and 1099 41st Street.

Building 3 is a four-story residential building, which is comprised of a total of 44 one-, two- and three-bedroom condominium and townhome units with a 61 car garage that occupies a portion of the ground floor. The garage is accessible from 40th Street. A restroom facility for AC Transit is located, as shown on Figure 2, on the ground floor of Building 3. It is accessed by a door opening onto 40th Street. The residential units in Building 3 have the address 1122 40th Street, Unit Nos.1 through 44.

The redeveloped site also includes five single-family residences at 1077 - 1085 41st Street. Those structures had previously been situated at other locations on the property but were moved to their present sites where they were restored to preserve their historic architecture.

As is also shown on Figure 2, an outdoor parking lot is accessed from both San Pablo Avenue and 40th Street and there is a small public playground accessed from 41st Street in the northeastern corner of the site.

### **1.5 Sources of Contamination Affecting the Oak Walk Site**

The program of environmental site characterization conducted at the Oak Walk Site showed that soil and groundwater beneath the property is affected by both fuel hydrocarbons and paint thinners (solvents) (The San Joaquin Company Inc. 2005). Those materials were released into the subsurface at four separate locations. Three of the sources, two where paint solvents were released and one where fuel hydrocarbons were released, are located off the Oak Walk Site, while the fourth, at which a release of fuel hydrocarbons occurred, is today partially outside and partially inside the Oak Walk site boundary. Each of those sources is discussed below.



### 1.5.1 The Former Dunne and Boysen Paint Sites

These sites are in close proximity to each other and are situated to the east of the Oak Walk Site beyond the adjacent Ennis property and Adeline Street. Their locations are shown on Figure 3. Paint was manufactured and paint solvents were stored in underground tanks at both of these facilities. In the case of the former Boysen Paint Site (also referred to in the regulatory records as Oakland National Engraving (**ONE Oakland**)), contamination is also known to have been released from a sump on that property. Both are cited in regulatory records as sources of releases of regulated materials to the subsurface. With the currently available information it is not possible to be certain whether or not the solvents released at Boysen Paint commingled with solvents released at the Dunne Paint Site. However, both contribute to the plume of paint solvents found to be affecting the subsurface beneath the Oak Walk Site. For the purpose of this report, those two release sites will be treated as if they are a single source.

Petroleum hydrocarbons in the gasoline and middle-distillate ranges, including compounds in the diesel and mineral spirits range, which can be ascribed to releases of solvents at the Dunne Paint Site and at the Boysen Paint/ONE Oakland Site, have been detected over essentially the whole area of the Oak Walk Site. There is also clear evidence that those materials are present at high concentrations in soil and groundwater under the Ennis property, which, as shown on Figure 3, is adjacent to the Oak Walk Site and lies between it and the former paint manufacturing sites.

The Alameda County Department of Environmental Health Department (**ACEH**) has assigned the case number RO72/RO73 to the Dunne Paint Site and the case number RO79 to the Boysen Paint/ONE Oakland Site.

### 1.5.2 The Former Celis Alliance Automobile Service Station

The location of the former Celis service station, which is today beneath the 40th Street right-of-way and adjacent to the Oak Walk Site, is also shown on Figure 3. Large quantities of fuel hydrocarbons were released from underground storage tanks on that site. The releases contaminated soil and groundwater over a wide area that is, today, occupied by the 40th Street right-of-way, a portion of the Andante condominium housing site to the south, a significant portion of the Oak Walk Site to the north, beneath San Pablo Avenue and property to the west of that thoroughfare. After the City of Emeryville Redevelopment Agency acquired the Celis Site by eminent domain for the purpose of extending 40th Street west from Adeline Street, a portion of the area of the subsurface affected by the release at that site was remediated by removal of contaminated soil down to some 9 ft. below the ground surface (**BGS**) and by a limited program of groundwater pumping. Some limited areas beneath the 40th Street right-of way to the east of, and up the hydrogeologic gradient from, the tanks were also partially remediated by excavation and off-site disposal of contaminated soil.

The Celis Site is recorded in California regulatory databases with the identifiers shown below:

The California State Water Resources Control Board (**SWRCB**) has established the following Global ID for the Celis Site: T0600101794

The California Regional Water Quality Control Board - San Francisco Bay Region (**RWQCB**) has been assigned the following case number to the Celis Site: 01-1938

The ACEH Local Oversight Program (**LOP**), which is the lead agency for the site, has assigned the following case number to the Celis Site: RO453/RO567

Releases of fuel hydrocarbons and, to limited extent, motor oil from the Celis Site commingled beneath the Oak Walk Site with the paint solvents released at the Boysen and Dunne Paint Sites to the east.

### 1.5.3 The Former San Francisco French Bread Site

The San Francisco French Bread Company (**SFFBC**) formerly occupied a part of the Oak Walk Site that today fronts onto 40th Street. SFFBC installed two ten thousand-gallon underground storage tanks on their property, which had the address 4070 San Pablo Avenue. One tank stored diesel and the other stored gasoline for use in the bread company's fleet of distribution vehicles. The former locations of the tanks are shown on Figure 3.

When the 1995 extension of 40th Street between Adeline Street and San Pablo Avenue was constructed by the City of Emeryville, the southern half of the tank sites became part of the street right-of-way and the northern half remained within the current boundaries of the Oak Walk site. At that time, soil was remediated by excavation to a depth of 10 ft. over an approximately 20 ft. by 18 ft. rectangular area at a location coincident with the southern half of the former SFFBC tank pit. No further remediation of the portion of SFFBC tank site that is beneath 40th Street has occurred since then. However, as is recorded in this report, the northern portion of the former SFFBC Site was included in the remediation work conducted at the Oak Walk Site.

The SFFBC tank site is recorded in California databases with the identifications shown below.

The SWRCB has established the following Global ID for the SFFBC Site: T0600101186

The RWQCB has been assigned the following case number to the SFFBC Site: 01-1289

The ACEH LOP, which is the lead agency for the site, has assigned the following case number to the SFFBC Site: RO171

#### 1.5.4 Oak Walk Site

With the exception of the small area of the former SFFBC property that is included in the Oak Walk Site, there are no known sources of contamination on the subject property. However, in order to provide oversight of the site characterization and remediation of the Oak Walk Site, the ACEH has assigned the following case number to the Oak Walk Site: RO2733. At the request of the ACEH, the SWRCB established the following Geotracker Global ID for the Oak Walk Site: T06019705080.

### **1.6 Site Characterization Program**

SJC completed an extensive, multi-phased environmental and geotechnical engineering site characterization program for the Oak Walk Redevelopment Site in 2005 (The San Joaquin Company Inc. 2005, 2004a,b,c). The scope of that investigation included excavation of eight exploratory trenches (Nos. 1-8), drilling of two cone penetrometer test holes and a total of 30 exploratory borings, in 21 of which groundwater-quality monitoring wells were constructed (the locations of the trenches, wells and borings are shown on Figure 4). During the subsequent site remediation, which is described in Section 1.7 below, three additional exploratory trenches (Nos. 9-11) were excavated, Monitoring Wells MWT-1 through MWT-10 and MW-6 were closed and eleven new wells, numbered MW-6A, MW-9 through 15 and MW-16A, -16B and -16C were installed at the locations shown on Figure 4 (The San Joaquin Company Inc. 2009a).

In addition to the trenches, wells and borings drilled by SJC, geotechnical and geochemical data was available from wells and borings installed for the former Dunne and Boysen Paint Sites, the San Francisco French Bread Site, the Celis Site and the Andante Site (see Figure 3 for locations).

The results of analyses of soil samples recovered from borings, wells and trenches are compiled in Tables 1, 2, and 3. Depths to groundwater are recorded in Table 4. The results of analyses of groundwater samples are compiled in Tables 5 and 6.

SJC's principal findings derived from the site characterization work are summarized below.

#### 1.6.1 Geology

The subject property is situated on the eastern side of San Francisco Bay in the California Coast Ranges section of the Pacific Border physiographic province.

As is typical of sites in the neighborhood, the subject property is underlain by fill that varies in thickness from approximately 3 to 10 feet. Beneath the fill are strata of alluvial fan deposits of the Quaternary-age Temescal Formation that is comprised of inter-fingering lenses of clayey gravel, sandy silty clay and sand-clay-silt mixtures (Radbruch 1957). At the site, this formation is some 20 ft. to 30 ft. thick and lies unconformably over earlier Quaternary continental and marine sands, clays and gravels of the Alameda

Formation, the maximum thickness of which has not been fully explored in the region around the subject property, but is known to exceed 1,050 ft.

### 1.6.2 Hydrology

Temescal Creek flows in underground culverts along a generally east to west course approximately 0.5 miles to the north of the subject property and discharges into San Francisco Bay, the shore of which is today some 0.85 miles to the west of the site. Prior to circa 1880, after which it was filled to become the site of a housing tract, there was a 30-acre tidal flat that formed an embayment in the shoreline of the Bay at a distance of some 0.6 miles southwest of the Oak Walk Site.

Temescal Creek and the tidal flats of San Francisco Bay dominated the regional hydrology of the area prior to its urbanization in the late 19th Century. However, there were no known streams that existed during the historical period in the vicinity of the Oak Walk Site closer than Temescal Creek.

The majority of precipitation running off the roofs of the structures and the parking lot on the redeveloped Oak Walk property is directed into filtration beds. Water discharged from the filter beds and small areas of paving that drain into street gutters is directed into the City of Emeryville's storm water management system. That system drains to San Francisco Bay. Approximately 95% of precipitation falling on the site is either diverted into the filter beds or percolates into the subsurface.

### 1.6.3 Hydrogeology

The depth to the groundwater table in the area of the subject property reflects long term weather cycles as well as seasonal variations in local precipitation in the San Francisco Bay Area. Depending upon those factors, the piezometric level of the regional groundwater may be at elevations that vary between approximately 4 and 12 ft. BGS (The San Joaquin Company Inc. 2005).

The regional direction of groundwater flow in the area of the site is essentially from east to west but, locally, it is greatly influenced by zones and channels of permeable sands and gravels that are present in the subsurface. Areas where channels and zones of high-permeability soils are present extend from east to west across the length of the site. However, such permeable facies are relatively less pronounced along the southern boundary of the site at 40th Street. In close proximity to the northern boundary of the site along 41st Street, they are essentially absent.

#### 1.6.3.1 Hydrostratigraphic Sections

Information from the logs of the trenches, borings and wells drilled on the site and on the surrounding streets was synthesized to develop hydrostratigraphic sections along the lines A-A', B-B', C-C', D-D', E-E', F-F', G-G' and H-H' that are located as shown on Figure 4. The sections are shown on Figures 5 through 12.

The cross sections show the fill material that covers the site and the underlying alluvial sediments, which are divided into six classes: very low-permeability fill that was used to restore the remedial excavations; very low-permeability soil that was created by excavating and re-compacting soils in other areas of the site; and the following undisturbed natural soils: the very low-permeability clays and silty clays; the slightly more permeable sandy clay and clays with some silt, sand or gravel (*i.e.*, soils that are dominantly clayey, but which have small lenses and inclusions of coarser facies); permeable silts, clayey gravels and sands; and highly permeable gravels that are free of silty or clayey fractions. That presentation makes it possible to reduce the details of the stratigraphy to a tractable degree of complexity by distinguishing between the different soil types based on the properties that are of importance to the understanding of the distribution and transport of chemicals of concern (COCs) in the subsurface. However, it is not intended to represent the detailed geologic stratigraphy of the complex of inter-bedded and lenticular strata and paleo streambed deposits that are present in the alluvial fan on which the Oak Walk Site is located.

Also shown on the cross sections are the locations from which soil samples were recovered on, or close to, the section lines. The concentrations of TPHg, TPHd (which includes diesel, mineral spirits and components of other middle-distillate petroleum hydrocarbons) and the critical analyte, benzene, that were detected in those samples, which were recovered before the site was remediated, are noted adjacent to the sampling locations.

The hydrostratigraphic cross sections reveal that beneath some areas of the Oak Walk Site there are relatively high-permeability facies that include in-filled paleo streambed channels.

#### 1.6.3.2 Net Permeable Facies

To assist with understanding of the distribution of high-permeability channels in the subsurface beneath the Oak Walk Site, the net permeable facies diagram shown on Figure 13 was constructed.

The isochores shown on the Figure are for the 5-20 ft. BGS interval, which is the interval between the typical depth to groundwater and the typical maximum depth to which the subsurface is affected by petroleum hydrocarbons. The permeable intervals summed to compute the net permeable facies were the sandy clays, clays with some silt, sand or gravel, and highly-permeable gravels.

Areas shown on Figure 13, where the net permeable facies in the subsurface exceed 50% in the selected interval are highlighted, provide a good visual image of the areal distribution of permeable zones and channels beneath the site through which contaminants of concern have preferentially migrated across the Oak Walk Site following their release at the paint factory sites to the east of Adeline Street, at the Celis Site beneath 40th Street, and at the former SFFBC site.

The areas and channels of permeable soil detected beneath the Oak Walk Site are not confined to that property alone. They extend westward beneath San Pablo Avenue and eastward beneath the adjoining Ennis property and across Adeline Street under the Frank Dunne and Boysen Paint Sites at least as far as the California Linen Rental Site (**California Linen**), which is located to the east of Linden Street in Oakland. The locations of channels and areas of high-permeable soil in the neighborhood are shown on Figure 3. That Figure was prepared by SJC at the request of the ACEH (Alameda County Health Care Services 2006) and was developed from available data from the Andante Site (The San Joaquin Company Inc. 2003), the Oak Walk Site (The San Joaquin Company Inc. 2009a, 2005, 2004a,b,c), the Frank Dunne Site, the Boysen Paint Site and the California Linen Site.

Figure 3 presents SJC's best estimates of the courses of the paleo streambed channels that pass through the area and the continuity of the high permeability sand and gravel deposits that are characteristic of those channels. The interpretations are based on a preponderance of the available stratigraphic, hydrogeologic and geochemical data. With the exception of the paleo streambed that crosses from the northern to western boundaries of the Andante property and those that were exposed during the remediation of Oak Walk Site, the location and continuity of the streambed deposits on the other properties and streets as shown on the drawing have not been observed in open excavations.

As is shown on Figure 3, there are two principal channels of high-permeability deposits that cross the Oak Walk Site. One passes from the Ennis property westward towards San Pablo Avenue through the northern portion of the subject property. In addition, there is a second narrow, but well-defined channel of paleo streambed deposits that extends from the southwest portion of the Ennis property across the Oak Walk Site in a northeast to southwest direction and continues beneath 40th Street to cross the boundary of the Andante Property to the south and continues through that site to pass beneath San Pablo Avenue. That paleo channel was originally discovered in 2003 when SJC was remediating the Andante Site (The San Joaquin Company Inc. 2003) and was confirmed to cross 40th Street when its sandy and gravelly deposits were again encountered in Exploratory Trenches 3 and 11 (see Figure 4 for locations) on the Oak Walk Site (The San Joaquin Company Inc. 2009a, 2004c).

The streambed deposits on the Andante Site were excavated from the channel and clay plugs were installed across the channel where it crossed the boundaries of that site at 40th Street and at San Pablo Avenue.

As part of the site characterization program conducted at the Oak Walk Site, SJC recovered samples of silty clay recovered from boring BG-2 (see Figure 4 for location) at a depth of 6.5 ft. and a second sample of similar material from a depth of 6 ft. in Monitoring Well MW-7. Constant-head permeability tests conducted on those samples found that the soils had hydraulic conductivities of  $2.51 \times 10^{-9}$  cm/sec and  $2.95 \times 10^{-8}$  cm/sec, respectively (The San Joaquin Company Inc. 2005). Those test results confirmed the extremely low permeability of the silty clays beneath the site and supported the interpretation that migration of contaminants in groundwater is controlled by the silts,

sands and gravels that were deposited on the site in the paleo streambed channels and other alluvial fan deposits laid down during the Recent geological era.

The hydrogeologic features described above are compatible with the published geology of the region, which is covered by an alluvial fan that, in the neighborhood of the Oak Walk Site, includes bands of stream and levee deposits (California Regional Water Quality Control Board - San Francisco Bay Region 1999).

## **1.7 Remediation**

The Oak Walk Site was remediated in compliance with a Corrective Action Plan (The San Joaquin Company Inc. 2006a,b) that was approved by the ACEH (Alameda County Environmental Health Care Services 2006) and included the following elements.

### 1.7.1 Remedial Excavations

To remove soil heavily affected by benzene and other petroleum hydrocarbons and to limit the potential health risk due to the presence of such soils beneath residential structures, two remedial excavations were opened at the locations shown on Figure 4. As shown o

n Figure 14, Remedial Excavation No. 1 (**RE-1**) had dimensions of 60 ft. x 110 ft. x 7 ft. deep, while Remedial Excavation No. 2 (**RE-2**), shown on Figure 15, measured 75 ft. x 215 ft. x 6 ft. deep. A total of 3,096.13 tons of affected soil from the remedial excavations and auxiliary pits required for extraction of contaminated groundwater and planting of trees was removed from the site and disposed at permitted landfills.

Confirmation soil samples were recovered from the floors of the remedial excavations at the locations shown on Figures 14 and 15. Those samples were analyzed for TPHd, TPHms, TPHg and the BTEX compounds.

The remedial excavations were backfilled with clean low-permeability engineered fill compacted to a minimum relative density of 90%. The hydraulic conductivity of the fill was in the range  $1.52 \times 10^{-8}$  to  $7.82 \times 10^{-8}$  cm/sec. The highest hydraulic conductivity in that range is less than the hydraulic conductivity of  $1.0 \times 10^{-7}$  cm/sec that was used for the design of the corrective action measures (The San Joaquin Company Inc. 2009a).

### 1.7.2 Extraction of Contaminated Groundwater

A groundwater extraction pit, designated Groundwater Extraction Pit No. 1 (**GEP-1**), was opened at the location shown on Figure 4. A total of 21,000 gallons of contaminated groundwater was extracted from the area of the site where 54,000 µg/L of TPHd, 81,000 µg/L of TPHms, 8,200 µg/L of TPHg, 1.4 µg/L of benzene, 3.6 µg/L of toluene and 2.2 µg/L of xylenes had been present. (See results of analysis of Sample No GEP-1A in Table 5). However the mixtures of compounds present in the sample in the diesel and gasoline range did not have the characteristics of fuel hydrocarbons, which is consistent with the interpretation developed from the site characterization program that groundwater

in that area of the Oak Walk Site is primarily affected by mineral spirits and other industrial solvents released at the up-gradient Boysen Paint and Frank Dunne Sites. Following the extraction, as measured in sample GEP-1B, the concentrations of those contaminants in groundwater were reduced to 530 µg/L of TPHd, 810 µg/L of TPHms, 1,100 µg/L of TPHg, and no detectable traces of benzene, toluene or xylenes.

### 1.7.3 Re-engineering of Site-wide Soils

Due to the soft native soils on the Oak Walk Site, construction of foundations for buildings required improvement of the soil in the upper 3 ft. to 6 ft. BGS. To accomplish this, the geotechnical engineering plan (The San Joaquin Company Inc. 2004b) for the site called for soil beneath the whole of Building 3 (see Figure 2 for location) to be excavated to a minimum depth of 6 ft. After conditioning, this soil was returned to the excavation as engineered fill compacted to a relative density of 90%. The re-engineered soil beneath Building 1 has a depth of 7 ft., which was required by the environmental corrective action plan, which in this area exceeded the 6 ft. geotechnical engineering depth requirement. The depth of re-engineered soil beneath Building 2 and the single family residential structures fronting onto 41st Street is a minimum of 4 ft. Soil beneath the paved outdoor parking was re-engineered to a minimum depth of 3 ft.

The effect of the geotechnical engineering soil improvement work described above was to create a stratum of very low permeability soil beneath both the residential and commercial ground floor units in the new building complex that has hydraulic conductivity within the range  $1.52 \times 10^{-8}$  to  $7.82 \times 10^{-8}$  cm/sec. That range is less than the  $5.65 \times 10^{-7}$  cm/sec hydraulic conductivity that was used for the design of the corrective action measures (The San Joaquin Company Inc. 2009a).

### 1.7.4 Installation of Elastomeric Membrane

A Liquid Boot<sup>®</sup> elastomeric membrane was placed beneath the floor slabs of all first floor residential and commercial space in the buildings on the Oak Walk Site. Liquid Boot<sup>®</sup> has a hydraulic conductivity of less than  $1.0 \times 10^{-11}$  cm/sec (Tofani 2009) as measured by ASTM Standard Test D4491 (American Society for Testing and Materials 2004). It does not break down in the presence of petroleum hydrocarbons when subjected to the ASTM Standard D543-06 test (American Society for Testing and Materials International 2006) and it has been shown to gain less than 1% in weight when exposed to benzene vapor at a concentration of 136,000 µg/L. At that concentration, a 60 mil thickness of the material has a mean benzene diffusion coefficient of  $2.1 \times 10^{-13}$  m<sup>2</sup>/day (GeoKinetics, Inc. 2008, Tofani 2009).

The Liquid Boot<sup>®</sup> membrane was sprayed over a geotextile substrate laid over a 4-in. thick gravel base until it reached a minimum thickness of 60 mils. The membrane was also installed vertically along the interior sides of the buildings' strip footings and column bases, as well as around each utility pipe or other penetration passing through the floor slabs. That technique ensures that there are no gaps anywhere in the completed membrane over the entire area of the occupied space. In addition to the areas beneath



ground floor occupied space, a Liquid Boot<sup>®</sup> membrane was installed so as to fully seal the floor and walls of the elevator pits in Building 3 of the new development.

Following installation and curing, 105 mil thick Liquid Boot<sup>®</sup> Ultra Shield-1000 geotextile fabric was laid over the membrane to protect it during installation of the concrete floor slabs.

## **2.0. SEPTEMBER 2009 GROUNDWATER-QUALITY MONITORING ROUND**

On September 21-24 2009, SJC conducted the first post-remediation round of groundwater-quality monitoring at the Oak Walk property. On September 21, 2009, URS, Inc. (URS), the City of Emeryville's consultants, conducted a parallel groundwater-quality monitoring round in wells URS MW-1 through URS MW-5 and LFMW-LF-4, which were installed as part of the site characterization program for the Celis' Site (see Figure 3 for locations).

### **2.1 Groundwater Elevations and Flow Direction**

On September 21, 2009, prior to recovery of samples, the depth to groundwater in each of the monitoring wells installed for the Oak Walk Site was measured using a conductivity probe. The depths to groundwater are recorded in Table 4, together with the water table elevations computed relative to the National Vertical Datum (NAVD) based on the previously-surveyed top of casing elevations of the wells.

The depth to groundwater and groundwater table elevations obtained by URS for the City of Emeryville's wells are also recorded in Table 4. The groundwater elevations presented in Table 4 were used to generate the groundwater contours shown on Figure 16. Although the interpretation of the geometry of the groundwater contours shown on Figure 16 is in strict compliance with the depths to groundwater measured on September 21, 2009, the interpretation of the contour geometries between well locations reflect the known distributions of paleo streambed deposits in the subsurface and hydrostratigraphy of the site and the general geometry of groundwater contours that were derived from the round of groundwater sampling conducted on November 8, 2004, when data from temporary wells MWT-1 through MWT-14 were available (The San Joaquin Company, Inc. 2005).

Due to the complex hydrostratigraphy of the subsurface the direction and gradient of groundwater flow varies from location to location over the Oak Walk Site and surrounding area, but the general direction of groundwater flow is to the southwest at a gradient of 0.02 ft./ft.

Figure 17 shows groundwater contours for September 21, 2009 from the integrated data gathered by on the Oak Walk Site and URS from the Celis Site.

### **2.2 Purging of Groundwater-quality Monitoring Wells**

A small-diameter, submersible pump was used to purge Monitoring Wells WCEW-1 through MW-16C of stagnant water. The pumped water was discharged into 5-gallon pails, each of which was, in turn, discharged into a 55-gallon drum. The water in the drum was periodically discharged into a 500-gallon holding tank stored in the garage area of Building 3.

During the purging procedure, the temperature, pH and electrical conductivity of the stream of purge water were monitored by checking those parameters periodically using a

multi-function electronic meter. Purging continued until all three parameters stabilized (*i.e.*, variations between measurements were less than 10%) or, as in the case of Monitoring Wells MW-2, MW-16A, MW-16B and MW-16C, the casing was completely emptied and the well was dry. The array of parametric results for each well is recorded in SJC's field notes (see Appendix A).

### 2.2.1 Disposal of Purge Water

As noted above, purge water extracted from the monitoring wells was discharged periodically into a 500-gallon storage tank held on the property. On October 2, 2009, the 342 gallons of water held in the tank was pumped into a vacuum truck and transported under a waste manifest to the DeMenno/Kerdoon treatment facility in Compton, California, where its petroleum hydrocarbon content was recycled in beneficial use and the cleaned water discharged under permit to the Los Angeles County Sanitation District's sewerage system. A copy of the manifest is included in Appendix B.

### **2.3 Recovery of Groundwater Samples from Monitoring Wells**

After purging, samples were recovered from all wells using disposable bailers. Water brought to the surface in the bailers was decanted via discharge spigot valves placed in the bottom of each bailer so as to completely fill clean glassware supplied by the laboratory containing pre-dispensed hydrochloric acid preservative. The sample vials were then tightly closed, labeled for identification, entered into chain-of-custody control and packed on chemical ice for transport to the sample refrigerator at SJC's Oakland office. They were later transported on ice to TestAmerica Laboratories, Inc. in Pleasanton, California (**TestAmerica**) for analysis.

### **2.4 Analyses of Groundwater Samples**

Each groundwater sample recovered was analyzed at the laboratory for the following suite of analytes.

<u>Analyte</u>	<u>Method of Analysis</u>
Total Petroleum Hydrocarbons (quantified as diesel)	EPA Method 8015B with pre-treatment by EPA Method 3630.
Total Petroleum Hydrocarbons (quantified as mineral spirits)	EPA Method 8015B with pre-treatment by EPA Method 3630.
Total Petroleum Hydrocarbons (quantified as gasoline)	EPA Method 8260B
Benzene	EPA Method 8260B

Toluene	EPA Method 8260B
Ethylbenzene	EPA Method 8260B
Total Xylene Isomers	EPA Method 8260B
tertiary-Butyl alcohol	EPA Method 8260B
Methyl-tertiary butyl ether	EPA Method 8260B
Di-isopropyl ether	EPA Method 8260B
Ethyl tertiary-butyl ether	EPA Method 8260B
Tertiary-amyl methyl ether	EPA Method 8260B

TestAmerica's laboratory is certified by the DHS to perform the groundwater analyses listed above.

The results of the analyses of samples of groundwater from the Oak Walk Site are presented in Table 5, which includes the results of analyses of groundwater samples recovered from all previous sampling rounds. Copies of the laboratory's Certificates of Analysis generated from the September 2009 monitoring round are included in Appendix C of this report.

Results of analysis of samples recovered from the Celis wells by URS are also included in Table 5.

### 3.0 CHEMICALS OF CONCERN IN SOIL AND GROUNDWATER

The investigations of the geochemistry of the subsurface at the Oak Walk Site have shown that soil and groundwater over essentially the whole of the property is affected by petroleum hydrocarbons. As was discussed in Section 1.5 above, mineral spirits and paint thinners were released from the Frank Dunne and Boysen Paint sites located to the east of Adeline Street and diesel and gasoline were released at the Celis Site, located beneath what is now 40th Street. Over large areas of the site the solvents and fuels became intermingled. In addition, a limited area of the site on its southern frontage on 40th Street was affected by a release of gasoline from a tank installed by the SFFBC that was formerly located partially within and partially outside the Oak Walk property boundary. Those release sites are shown on Figure 3.

The concentrations of COCs in soil recovered from the subsurface at the Oak Walk Site are presented in Tables 1, 2 and 7 and the concentrations of COCs in groundwater are presented in Table 5. **Note:** As is described in Section 1.7, in some areas of the Site, soil was remediated by excavation and off-site disposal. In Table 1, COCs detected in samples from locations where soil was shipped off-site and replaced with clean, imported fill are shown in *italic font*. At locations where remediation involved excavation and re-compaction of native soil, the concentrations are shown in smaller font.

#### 3.1. Concentrations of Analytes in Excess of the ESLs

To provide a standard process for determining whether COCs detected at a contaminated site will require additional evaluation, the RWQCB has established Environmental Screening Levels (**ESLs**) for many chemicals and for mixtures of chemicals such as gasoline and diesel (California Regional Water Quality Control Board San Francisco Bay Region 2008).

If the concentrations of COCs in soil or groundwater exceed the applicable ESLs it does not necessarily mean that active remediation of soil or groundwater is necessary or that additional corrective action measures beyond the scope of those already taken would be required. It simply means that in the case of an un-remediated site, additional evaluation is required to determine whether or not remediation measures must be implemented. In the case of the Oak Walk property, at which the remediation program is complete, comparison of the COCs remaining in situ with the applicable ESLs can simply identify soil and groundwater in which the COCs remain elevated but, due to the implementation of the corrective action program, no longer pose unacceptable risk.

The RWQCB has found that shallow groundwater in the region of the Oak Walk Site is not a source of drinking water (California Regional Water Quality Control Board - San Francisco Bay Region 1999). Given that finding and because there are both residential and commercial structures on the Oak Walk Site, the applicable ESLs are those developed for residential sites where the groundwater is not a current or potential source of drinking water. In the case of contaminants in soils, there are separate ESLs for shallow soils (*i.e.*, soil at depth less than 3 meters (9.84 ft. BGS) and for deep soils (*i.e.*,

at depths greater than 9.84 ft). The applicable ESLs for the COCs at the Oak Walk Site for soil and groundwater are compiled in Tables 8 (shallow soils) and 9 (deep soils).

The results of analyses of soil and groundwater that indicated the presence of contaminants of concern at concentrations in excess of the applicable ESLs are shown in **bold font** in Tables 1, 2, 3, 5, 6 and 7. (**Note:** Although they are located slightly deeper than 9.84 ft., SJC conservatively considered soil at depths up to 10 ft. to be "shallow" when preparing the Tables.)

### 3.2 Comingling of Fuel Hydrocarbons and Paint Solvents

Comingling of different petroleum products from the different sources that migrated across the Oak Walk Site complicate an interpretation of which areas of the site were affected by discharges from those different sources. However, it has been possible to reach an understanding of the distribution of petroleum compounds that fall within different ranges of carbon-chain length and to delineate areas affected by chemicals of particular concern, such as benzene. Figures 18 through 23 provide visual representations of those distributions. To construct those visualizations, SJC considered petroleum hydrocarbons that fall into the middle-distillate range separately from hydrocarbons that fall into the gasoline range.

The middle-distillate range hydrocarbons include diesel, mineral spirits and the heavier fraction of paint solvents. The gasoline range hydrocarbons include gasoline fuel, including its components that are of specific concern such as benzene, toluene, ethyl benzene and xylene isomers, as well as lighter fractions of paint solvents. However, paint solvents do not generate chromatographic patterns that are characteristic of fuel hydrocarbons. This makes it possible to distinguish samples of soil and groundwater affected by fuel hydrocarbons from those affected solely by paint solvents.

As part of the site characterization program for the Oak Walk Site, SJC made a study of site-specific hydrogeologic and chemical parameters that could be used to differentiate between areas of the property that had been affected solely by paint solvents as opposed to areas where a comingling of paint solvents and fuel hydrocarbons are present. That study showed that components of mineral spirits and other paint solvents, including the gasoline-range components of those products, emanating from the Frank Dunne and Boysen Paint Sites were present over essentially the whole area of the Oak Walk Site. However, study of chromatograms from analyses of the gasoline-range compounds in groundwater samples recovered from wells located in the approximate northern half of the site were not consistent with the fuel gasoline (The San Joaquin Company Inc. 2005).

However, groundwater samples recovered from wells located in a substantial portion of the southern half of the Site contained significant concentrations of the BTEX compounds. This indicates that the source of at least a portion of the gasoline-range hydrocarbons in that area were released from either the Celis or SFFBC fuel tanks. This finding was supported by the presence of MTBE in groundwater in that area. For example, the sample of groundwater recovered on September 24, 2009 from Monitoring

Well MW-2, which, as is shown on Figure 4, is located a few feet to the south of the 40th Street frontage of the Oak Walk Site, contained diesel, mineral spirits and gasoline at concentrations of 400  $\mu\text{g/L}$ , 350  $\mu\text{g/L}$  and 4,000  $\mu\text{g/L}$ , respectively. That information alone does not permit a conclusion that the groundwater at Monitoring Well MW-2 contains fuel hydrocarbons. However, the fact that the sample recovered from that well contained benzene at a concentration of 1,500  $\mu\text{g/L}$  together with ethylbenzene at 520  $\mu\text{g/L}$  and MTBE at 47  $\mu\text{g/L}$  is evidence that the fuel gasoline is present at that location and is comingled with the paint solvents that include mineral spirits.

Figure 18 shows the area of the Oak Walk Site where soil or groundwater is affected by middle distillate-range hydrocarbons regardless of whether the source of those compounds is from tanks containing fuel hydrocarbons or paint solvents.

Figure 19 shows the area of the Oak Walk Site where gasoline-range petroleum hydrocarbons affect the soil and groundwater. That area extends over almost the whole of the Site. This is reflective of the commingling of gasoline fuel released at the Celis and SFFBC Sites with the high concentrations of gasoline-range compounds in the paint solvents that migrated down the groundwater gradient from the Dunne and/or Boysen Paint Sites to the east of Adeline Street.

### **3.3 Middle Distillate-range Petroleum Hydrocarbons in Groundwater**

Isocons of middle distillate range hydrocarbons on the Oak Walk Site are shown on Figure 20. A substantial portion of those COCs were released at the Frank Dunn and Boysen Paint Sites and carried onto the Oak Walk property from the east in two streams that correspond with the paleo streambeds shown on Figure 3. There they comingled with the diesel that leaked from the underground storage tanks formerly located on the Celis site which was situated beneath 40th. Street where it joins the eastern side of San Pablo Avenue.

The highest concentrations detected in September 2009 were present in the sample recovered from Monitoring Well MW-16A. that contained TPH(ms) at 4,100  $\mu\text{g/L}$  and TPH (d) at 2,400  $\mu\text{g/L}$ . An area where groundwater was affected by middle distillate petroleum hydrocarbons at concentration in excess of 1,100  $\mu\text{g/L}$  extended in a band westward from there across San Pablo Avenue.

### **3.4 Gasoline-range Petroleum Hydrocarbons in Groundwater**

Isocons of gasoline range hydrocarbons on the Oak Walk Site are shown on Figure 21. As is the case for middle distillate hydrocarbons, a significant portion of those COCs were released in the form of solvent products at the Frank Dunn and Boysen Paint Sites and carried onto the Oak Walk property from the east. where they comingled with gasoline fuel that leaked from the underground storage tanks formerly located on the Celis site.

The highest concentration of gasoline-range hydrocarbons detected in the September 2009 monitoring round was 64,000 µg/L in groundwater in Monitoring Well MWT-16A. High concentrations of those compounds were also present in Monitoring Wells MW-16B and MW-2 at 4,000 µg/L in each. In the latter case, that represented a reduction from the 8,300 µg/L of gasoline range compounds that had been detected in MW-2 on September 18, 2007.

#### 3.4.1 Distribution of BTEX Compounds

No BTEX compounds in excess of their ESLs were detected in groundwater recovered from any of the wells on the Oak Walk Site during the September 2009 monitoring round except for the case of Monitoring Wells MW-2, MW-16A and MW-16B. However, the concentration of benzene in Monitoring Well MW-16A was at the unusually high level of 18,000 µg/L and it was also present at high concentrations (1,650 µg/L and 1,600 µg/L respectively) in Monitoring Wells MW-2 and MW-16B.

The isocons for benzene on the Oak Walk Site are shown on Figure 22 which have the form of a confined elliptical plume centered around Monitoring Well MW-16A. No benzene was detected in the samples recovered from Monitoring Well MW-3 (see Figure 22 for location) which suggests that any of that COC that had its source at the former SFFB tank has fully dissipated and the benzene detected on the Oak Walk Site and adjacent areas in September 2009 had its source at the former Celis Alliance Service Station.

#### 3.4.2 Distribution of MTBE

The only fuel oxygenate detected in groundwater recovered from the Oak Walk Site during the September 2009 monitoring round was MTBE. None was present at a concentration in excess of its ESL. The area of the Oak Walk Site that is affected by MTBE in groundwater is shown on Figure 23. The boundaries of that area provide a good indication of the extent to which gasoline fuel leaking from the Celis tanks affected the site. (**Note:** The SFFBC tanks were removed from the underground prior to the 1992 mandated use of MTBE in gasoline fuel.)

### **3.5 Distribution of Polynuclear Aromatic Compounds and Other Analytes**

Tables 1 and 5 also show that there are a few instances where the polynuclear aromatic compounds (PNAs), naphthalene and 2-methyl-naphthalene, were present in soil and groundwater beneath the Oak Walk Site. Those PNAs may be components of diesel fuel or of industrial solvents. At the Oak Walk Site, they were at their highest concentrations in groundwater in samples recovered on May 19, 2004 and from Monitoring Wells MW-2 and MWT-2 (see Figure 4 for locations), which suggests that they are principally associated with diesel released from the former Celis service station site. Some very low concentrations of PNAs were detected in some soil samples from more widely-dispersed



locations, but the preponderance of those additional detections was also in areas that were affected by fuel hydrocarbons.

### **3.6 Integration of Groundwater-quality Data from Oak Walk and Celis Wells**

Isocons of the concentrations of diesel-range hydrocarbons, gasoline-range hydrocarbons and benzene in groundwater derived by integrating the data recovered from the groundwater monitoring wells at both the Oak Walk and Celis Sites in September 2009 are shown on Figures 24 through 26, respectively. Figure 27 shows the area where MTBE is present at both sites.

#### **4.0 FUTURE GROUNDWATER-QUALITY MONITORING**

As called for by the approved CAP, a one-year duration groundwater-quality monitoring program is planned for the Oak Walk Site that will employ the extant 18-well array of groundwater-quality monitoring wells shown on Figure 4.

Based on consideration of the criteria established by California State Water Resources Control Board Resolution No. 2009-0042 (California State Water Resources Control Board 2009) and following discussion with the RWQCB Case Officer, the next round of groundwater-quality monitoring at the Oak Walk site is planned for March 2010.

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# TABLE 1

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TABLE 1

RESULTS OF ORGANIC CHEMICAL ANALYSES OF SOIL SAMPLES RECOVERED FROM THE OAK WALK SITE

Sample ID	Date Sampled	Petroleum Hydrocarbons				Other Volatile Organic Compounds																PNAs						
		Depth BGS ft.	Mineral Spirits mg/Kg	TPHd (Diesel) mg/Kg	TPHg (Gasoline) mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Total Xylenes mg/Kg	MTBE mg/Kg	Acetone mg/Kg	2-Butanone mg/Kg	n-Butylbenzene mg/Kg	sec-Butylbenzene mg/Kg	tert-Butylbenzene mg/Kg	Isopropylbenzene mg/Kg	p-Isopropylbenzene mg/Kg	p-Isopropyltoluene mg/Kg	n-Propylbenzene mg/Kg	1,2,4-Tri-methylbenzene mg/Kg	1,3,5-Tri-methylbenzene mg/Kg	52 Other VOCs by 8260B GCMS	Naphthalene mg/Kg	2-Methylnaphthalene mg/Kg	15 Other PNAs by 8270C mg/Kg			
<b>Trenches</b>																												
T1 - 7.0	12/03/03	7.0	na <sup>2</sup>	70 <sup>16</sup>	530 <sup>5</sup>	ND	ND	8.3	4.7	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
T1 - 8.5	12/03/03	8.5	na	90	1,400 <sup>5</sup>	ND	ND	10	1.9	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T2 - 6.5	12/03/03	6.5	na	ND	3.8 <sup>5</sup>	0.026	ND	0.024	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T2 - 8.5	12/03/03	8.5	na	1.5	300 <sup>5</sup>	1.1	3.1	6.4	27	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T3 - 8.0	12/03/03	8.0	na	4.3	6.4	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	ND	na	na	na	na	
T3 - 9.5	12/03/03	9.5	na	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T4 - 10.5	12/03/03	10.5	na	ND	ND	ND	ND	ND	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND	ND	
T5 - 9.0	12/03/03	9	ND	70 <sup>4</sup>	400	ND	2.6	6.1	36	ND	na	na	ND	0.6	ND	0.88	ND	ND	3.9	25	7.6	ND	4.1	1.8	ND	ND	ND	
T6 - 8.5	12/02/03	8.5	na	70	3,000 <sup>5</sup>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T7 - 9.0	12/02/03	9.0	na	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T8 - 8.5	12/02/03	8.5	na	150	820 <sup>5</sup>	ND	ND	ND	ND	na	na	0.51	0.81	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND	ND	ND	
T9-S10-D 5.0	10/04/07	5.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T9-S10-D 10.0	10/04/07	10.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T9-S10-D 14.25	10/04/07	14.3	100	67	19,000	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T9-S30-D 5.0	10/05/07	5.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T9-S30-D 10.0	10/05/07	10.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T9-S30-D 14.0	10/05/07	14.0	14	8.9	3,900	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T9-S50-D 5.0	10/05/07	5.0	ND	12	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T9-S50-D 10.0	10/05/07	10.0	99	75	530	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T9-S50-D 13.0	10/05/07	13.0	900	600	7,600	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T9-S50-D 15.0	10/05/07	15.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-0S-5.0	09/21/07	5.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-0S-10.0	09/21/07	10.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-0S-15.0	09/21/07	15.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S21.5-17.0	09/21/07	17.0	300	210	560	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S21.5-20.5	09/21/07	20.5	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S50-D 5.0	09/24/07	5.0	ND	3.8 <sup>16</sup>	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S50-D 10.0	09/24/07	10.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S50-D 15.0	09/24/07	15.0	48	30	350	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S55-D 17.0	09/24/07	17.0	ND	ND	2.2	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S75-D 5.0	09/24/07	5.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S75-D 10.0	09/24/07	10.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S75-D 15.0	09/24/07	15.0	580	360	2,100	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S75-D 17.0	09/24/07	17.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S100-D 5.0	09/26/07	5.0	ND	2.3	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S100-D 10.0	09/26/07	10.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S100-D 15.0	09/26/07	15.0	1,300	820	4,200	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S125-D 5.0	09/26/07	5.0	ND	2.9	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
T10-S125-D 10.0	09/26/07	10.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	



Sample ID	Date Sampled	Depth BGS ft.	Petroleum Hydrocarbons										Other Volatile Organic Compounds										PNAs			
			Min-eral Spirits	TPHd (Diesel)	TPHg (Gasoline)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Acetone	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Isopropylbenzene	p-Isopropylbenzene	p-Isopropyltoluene	n-Propylbenzene	1,2,4-Tri-methylbenzene	1,3,5-Tri-methylbenzene	52 Other VOCs by 8260B	Napthalene	2-Methyl-napthalene	15 Other PNAs by 8270C	
			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	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
T10-S125-D 15.0	09/26/07	15.0	ND	ND	2.1	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
T10-S150-D 5.0	09/26/07	5.0	2.2	6.2	2.6	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
T10-S150-D 10.0	09/26/07	10.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
T10-S150-D 15.0	09/26/07	15.0	<b>550</b>	<b>420</b>	<b>1,700</b>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
T10-S150-D 19.0	09/26/07	19.0	ND	ND	6.9	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
T11-5	08/08/07	5.0	ND	9.2	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
T11-10	08/08/07	10.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
T11-15	08/08/07	15.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
<b>Borings and Wells</b>																										
BE-1-5.0	04/02/04	5.0	62 <sup>3</sup>	ND	<b>540</b>	ND	ND	<b>5.1</b>	1.6	ND	ND	ND	8.4	3.1	ND	2.7	ND	0.29	13	12	3.8	ND <sup>6</sup>	<b>18</b>	<b>3.2</b>	ND <sup>9</sup>	
BE-1-10.0	04/02/04	10.0	<b>130</b> <sup>3</sup>	ND	<b>3,600</b>	<b>13</b>	<b>140</b>	<b>80</b>	<b>430</b>	ND	ND	ND	3.7	ND	ND	1.4	ND	ND	6.2	32	12	ND	<b>7.5</b>	ND	ND	
BE-1-13.5	04/02/04	13.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
BE-1-15.0	04/02/04	15.0	ND	ND	7.9	0.096	0.029	0.12	0.6	0.011	ND	ND	0.014	ND	ND	ND	ND	ND	0.027	0.054	0.013	ND	0.12	ND	ND	
BE-1-20.0	04/02/04	20.0	ND	ND	2.5	0.027	0.011	0.016	0.033	ND	0.031	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-1-25.0	04/02/04	25.0	ND	ND	ND	ND	0.0053	ND	0.011	0.012	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-2-5.0	04/02/04	5.0	27 <sup>3</sup>	ND	<b>340</b>	<b>1.3</b>	ND	<b>5.7</b>	<b>26</b>	ND	ND	ND	9.1	2.4	ND	2.5	ND	ND	12	37	14	ND	<b>18</b>	<b>1.4</b>	ND	
BE-2-10.0	04/02/04	10.0	24 <sup>3</sup>	ND	<b>820</b>	<b>7.4</b>	<b>33</b>	<b>16</b>	<b>87</b>	ND	ND	ND	3.3	ND	ND	1.3	ND	ND	5.7	29	10	ND	<b>6.8</b>	<b>0.31</b>	ND	
BE-2-15.0	04/02/04	15.0	ND	2.5 <sup>5</sup>	5.0	0.052	ND	0.027	ND	0.075	0.14	ND	0.046	0.019	ND	ND	ND	0.046	ND	ND	ND	ND	ND	ND	ND	
BE-2-20.0	04/02/04	20.0	ND	2.4 <sup>7</sup>	ND	ND	ND	0.0086	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-2-25.0	04/02/04	25.0	ND	ND	ND	0.053	0.051	0.038	0.15	0.018	ND	ND	ND	ND	ND	ND	ND	ND	0.0069	ND	ND	ND	ND	ND	ND	
BE-3-5.0	04/02/04	5.0	ND	1.1 <sup>8</sup>	ND	ND	ND	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-3-10.0	04/02/04	10.0	ND	ND	ND	ND	ND	ND	ND	0.025	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-3-15.0	04/02/04	15.0	ND	1.3 <sup>7</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-3-20.0	04/02/04	20.0	<b>190</b>	ND	<b>1,600</b> <sup>5</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-4-5.0	04/01/04	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-4-9.5	04/01/04	9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-4-14.5	04/01/04	14.5	ND	1.3 <sup>5</sup>	2.8	0.006	ND	0.047	0.024	ND	0.04	ND	0.081	0.027	ND	0.017	0.0099	ND	0.081	0.12	0.005	ND	0.086	ND	ND	
BE-4-19.5	04/01/04	19.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-5-5.0	04/01/04	5.0	ND	4.5 <sup>7</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-5-10.0	04/01/04	10.0	14	ND	<b>340</b> <sup>5</sup>	ND	ND	ND	ND	ND	ND	0.092	0.046	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-5-14.5	04/01/04	14.5	ND	2.5 <sup>7</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-5-19.5	04/01/04	19.5	ND	12 <sup>7</sup>	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
BE-6-4.0	04/01/04	4.0	ND	22 <sup>7</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-6-9.5	04/01/04	9.5	ND	<b>1,200</b> <sup>7</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0066	ND	ND	ND	
BE-6-15.0	04/01/04	15.0	ND	11 <sup>8</sup>	130 <sup>5</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BE-6-20.0	04/01/04	20.0	ND	4.9 <sup>8</sup>	2.6 <sup>5</sup>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
BG-1-5	04/06/04	5.0	ND	ND	1.3	ND	ND	ND	ND	ND	0.046	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	ND	
BG-1-10	04/06/04	10.0	35 <sup>3</sup>	ND	<b>870</b>	ND	9.0	<b>13</b>	<b>75</b>	ND	ND	ND	2.6	ND	ND	1.1	ND	ND	4.4	23	8.1	ND	<b>4.2</b>	<b>3.5</b>	ND	
BG-1-15	04/06/04	15.0	ND	3.7 <sup>8</sup>	<b>270</b>	1.1	0.99	<b>4.9</b>	<b>24</b>	ND	0.065	ND	0.028	ND	ND	ND	ND	0.025	0.160	0.056	ND	0.055	ND	ND	ND	
BG-1-20	04/06/04	20.0	ND	ND	ND	0.0062	ND	ND	ND	0.005	0.044	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BG-1-25	04/06/04	25.0	ND	ND	ND	ND	ND	0.0051	0.023	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
BG-1-30	04/06/04	30.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BG-1-35	04/06/04	35.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	

Sample ID	Petroleum Hydrocarbons					Other Volatile Organic Compounds																PNAs				
	Date Sampled	Depth BGS	Min-eral Spirits	TPHd (Diesel)	TPHg (Gasoline)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Acetone	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Isopropylbenzene	p-Isopropylbenzene	p-Isopropyltoluene	n-Propylbenzene	1,2,4-Tri-methylbenzene	1,3,5-Tri-methylbenzene	52 Other VOCs by 8260B	Napthalene	2-Methyl-napthalene	15 Other PNAs by 8270C	
		ft.	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	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	GC/MS	mg/Kg	mg/Kg	mg/Kg
BG-2-5.0	04/06/04	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BG-2-10.5	04/06/04	10.5	47 <sup>3</sup>	ND	1,200	ND	ND	16	80	ND	ND	6.0	ND	ND	2.4	ND	ND	10	50	17	ND	8.5	3.0	ND	ND	
BG-2-15.0	04/06/04	15.0	ND	ND	ND	ND	ND	ND	ND	0.028	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BG-2-18.0	04/06/04	18.0	ND	ND	ND	ND	ND	ND	ND	0.020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BG-2-21.0	04/06/04	21.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BG-2-25.0	04/06/04	25.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
BG-2-30.0	04/06/04	30.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
BG-2-35.0	04/06/04	35.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MWT-1-4.0	04/02/04	4.0	ND	ND	ND	ND	ND	ND	0.0063	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-1-11.5	04/02/04	11.5	74	ND	2,400 <sup>5</sup>	ND	ND	ND	ND	ND	ND	0.023	0.022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	
MWT-1-15.0	04/02/04	15.0	ND	2.8 <sup>8</sup>	ND	ND	ND	ND	ND	ND	ND	0.0051	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-1-20 <sup>11</sup>	04/02/04	20.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-2-5.5	04/02/04	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-2-10.0	04/02/04	10.0	12 <sup>3</sup>	ND	440	ND	ND	2.3	6.8	ND	ND	1.8	0.44	ND	0.500	ND	ND	2.4	10	3.8	ND	1.2	0.93	ND	ND	
MWT-2-15.0	04/02/04	15.0	ND	8.0 <sup>8</sup>	120	ND	ND	0.67	1.2	ND	0.099	0.027	0.035	0.0079	ND	0.0055	ND	0.032	0.18	0.047	ND	0.08	0.14	ND	ND	
MWT-2-20.0	04/02/04	20.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-3-5.0	04/02/04	5.0	ND	1.2 <sup>7</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-3-10.0	04/02/04	10.0	ND	7.5 <sup>8</sup>	7.0 <sup>5</sup>	ND	ND	ND	ND	ND	ND	ND	0.026	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-3-15.0	04/02/04	15.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-3-20.0	04/02/04	20.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-4-4.0	04/01/04	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-4-10.0	04/01/04	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-4-15.0	04/01/04	15.0	150	ND	120 <sup>5</sup>	ND	ND	ND	ND	ND	ND	0.026	0.015	0.0094	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-4-20.0	04/01/04	20.0	ND	2.4 <sup>8</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-5-5.0	04/02/04	5.0	ND	1.3 <sup>4</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-5-10.0	04/02/04	10.0	ND	1.1 <sup>4</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-5-15.0	04/02/04	15.0	ND	7.0 <sup>7</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-5-20.0	04/02/04	20.0	ND	7.6 <sup>7</sup>	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MWT-6-5.0	04/01/04	5.0	ND	2.1 <sup>4</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-6-10.5	04/01/04	10.5	51	ND	860 <sup>5</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-6-14.5	04/01/04	14.5	ND	1.4 <sup>8</sup>	9.0 <sup>5</sup>	ND	ND	ND	ND	0.064	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-6-19.5	04/01/04	19.5	ND	8.5 <sup>8</sup>	13 <sup>5</sup>	ND	ND	ND	0.09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-7-5.0	04/01/04	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-7-10.0	04/01/04	10.0	ND	3.5 <sup>8</sup>	4.40 <sup>5</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-7-15.0	04/01/04	15.0	ND	3.4 <sup>8</sup>	7.20 <sup>5</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-7-20.0	04/01/04	20.0	ND	ND	ND	ND	ND	ND	ND	0.088	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-8-5.5	04/02/04	5.5	ND	1.5 <sup>4</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-8-10.5	04/02/04	10.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-8-15.0	04/02/04	15.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MWT-8-18.0	04/02/04	18.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-9-4.0	04/01/04	4.0	ND	3.3 <sup>7</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-9-9.5	04/01/04	9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MWT-9-14.5	04/01/04	14.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	

Sample ID	Petroleum Hydrocarbons					Other Volatile Organic Compounds																	PNAs			
	Date Sampled	Depth BGS	Min-eral Spirits	TPHd (Diesel)	TPHg (Gasoline)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Acetone	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Isopropylbenzene	p-Isopropylbenzene	p-Isopropyltoluene	n-Propylbenzene	1,2,4-Tri-methylbenzene	1,3,5-Tri-methylbenzene	52 Other VOCs by 8260B	Napthalene	2-Methyl-napthalene	15 Other PNAs by 8270C	
		ft.	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	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	GC/MS	mg/Kg	mg/Kg	mg/Kg
MWT-9-19.5	04/01/04	19.5	ND	14 <sup>4</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWT-10-5.0	04/01/04	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWT-10-10.0	04/01/04	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWT-10-15.0	04/01/04	15.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-10-20	04/01/04	20.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWT-11-5	11/05/04	5.0	ND	1.1 <sup>12</sup>	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-11-10	11/05/04	10.0	33 <sup>13</sup>	ND	170 <sup>14</sup>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-11-15	11/05/04	15.0	ND	1.4 <sup>12</sup>	27 <sup>14</sup>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-11-19.5	11/05/04	19.5	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-12-5	11/05/04	5.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-12-10	11/05/04	10.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-12-15	11/05/04	15.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-12-19.5	11/05/04	19.5	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-13-5	11/05/04	5.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-13-10	11/05/04	10.0	40 <sup>13</sup>	ND	520 <sup>14</sup>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-13-15	11/05/04	15.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-13-19	11/05/04	19.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-14-5	11/05/04	5.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-14-10	11/05/04	10.0	110 <sup>13</sup>	ND	360 <sup>14</sup>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-14-15	11/05/04	15.0	12 <sup>13</sup>	ND	1.2 <sup>14</sup>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-14-19.5	11/05/04	19.5	15 <sup>13</sup>	ND	82 <sup>14</sup>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MW-2-5.0	04/07/04	5.0	29 <sup>3</sup>	ND	860	ND	ND	19	87	ND	ND	2.9	ND	ND	0.098	ND	ND	4.4	27	9.8	ND	7.2	1.1	ND	ND	
MW-2-10.0	04/07/04	10.0	16 <sup>3</sup>	ND	530	ND	2.4	9.2	47	ND	ND	2.1	ND	ND	0.77	ND	ND	3.4	21	7.4	ND	5.0	0.23	ND	ND	
MW-2-15.0	04/07/04	15.0	ND	ND	ND	0.03	ND	0.021	0.029	ND	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0085	ND	ND	ND	
MW-2-20.0	04/07/04	20.0	ND	ND	ND	ND	0.0062	ND	0.037	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-3-5.0	04/07/04	5.0	Lost	Core																						
MW-3-10.0	04/07/04	10.0	Lost	Core																						
MW-3-14.0	04/07/04	14.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-3-20.0	04/07/04	20.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-4-5.5	04/30/04	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-4-10.5	04/30/04	10.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-4-15.5	04/30/04	15.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-4-19.5	04/30/04	19.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-5-6.0	04/30/04	6.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-5-10.0	04/30/04	10.0	27	ND	1,000 <sup>5</sup>	ND	ND	0.55	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-5-15.5	04/30/04	15.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-5-19.5	04/30/04	19.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-6-5.0	04/07/04	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-6-10.0	04/07/04	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-6-15.0	04/07/04	15.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-6-20.0	04/07/04	20.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-6A-5.0 <sup>15</sup>	09/27/08	5.0	ND <sup>2</sup>	11	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-6A-10.0	09/27/08	10.0	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	

Sample ID	Date Sampled	Depth BGS ft.	Petroleum Hydrocarbons										Other Volatile Organic Compounds										PNAs		
			Min-eral Spirits	TPHd (Diesel)	TPHg (Gasoline)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Acetone	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Isopropylbenzene	p-Isopropylbenzene	p-Isopropyltoluene	n-Propylbenzene	1,2,4-Tri-methylbenzene	1,3,5-Tri-methylbenzene	52 Other VOCs by 8260B	Napthalene	2-Methyl-napthalene	15 Other PNAs by 8270C
			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	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
MW-6A-15.0	09/27/08	15.0	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-6A-20.0	09/27/08	20.0	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-7-5.0	04/06/04	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-7-10.0	04/06/04	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-7-15.0	04/06/04	15.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-7-20.0	04/06/04	20.0	ND	7.9 <sup>4</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-8-5.0	04/07/04	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-8-10.0	04/07/04	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-8-15.0	04/06/04	15.0	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-8-20.0	04/06/04	20.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW-9-5.0	09/27/08	5.0	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-9-10.0	09/27/08	10.0	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-9-15.0	09/27/08	15.0	ND	ND	6.5	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-9-20.0	09/27/08	20.0	ND	ND	2.7	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-10-5.0	09/27/08	5.0	ND	ND	0.92	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-10-10.0	09/27/08	10.0	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-10-15.0	09/27/08	15.0	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-10-20.0	09/27/08	20.0	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-11-5.0	09/27/08	5.0	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-11-10.0	09/27/08	10.0	79	47	540 <sup>3</sup>	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-11-15.0	09/27/08	15.0	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-11-20.0	09/27/08	20.0	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-12-5.0	02/09/09	5.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-12-10.0	02/09/09	10.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-12-15.0	02/09/09	15.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-12-20.0	02/09/09	20.0	ND	ND	1.0	0.086	0.0075	0.036	0.046	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-13-5.0	02/09/09	5.0	ND	3.9	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-13-10.0	02/09/09	10.0	93	110	3.3	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-13-15.0	02/09/09	15.0	ND	1.3	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-13-20.0	02/09/09	20.0	2.7	2.8	2.3	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-14-5.0	02/09/09	5.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-14-10.0	02/09/09	10.0	2,400	1,700	5,600	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-14-15.0	02/09/09	15.0	ND	ND	2.5	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-14-20.0	02/09/09	20.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-15-5.0	02/09/09	5.0	1.2	15	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-15-10.0	02/09/09	10.0	2.3	1.6	1.6	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-15-15.0	02/09/09	15.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-15-20.0	02/09/09	20.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-16A-5.0	02/09/09	5.0	9.4	8.8	8.5	0.22	ND	0.21	0.17	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-16A-10.0	02/09/09	10.0	13	11	860	6.0	13	12	56	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-16A-15.0	02/09/09	15.0	ND	ND	2.0	0.10	0.019	0.027	0.055	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-16A-20.0	02/09/09	20.0	Lost	Core																					
MW-16B-5.0	02/10/09	5.0	Lost	Core																					
MW-16B-10.0	02/10/09	10.0	49	43	590	2.9	8.6	8.4	44	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	

Sample ID	Date Sampled	Depth BGS ft.	Petroleum Hydrocarbons					Other Volatile Organic Compounds															PNAs				
			Min-eral Spirits	TPHd (Diesel)	TPHg (Gasoline)	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Acetone	2-Butanone	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Isopropylbenzene	p-Isopropylbenzene	p-Isopropyltoluene	n-Propylbenzene	1,2,4-Tri-methylbenzene	1,3,5-Tri-methylbenzene	52 Other VOCs by 8260B GC/MS	Napthalene	2-Methyl-napthalene	15 Other PNAs by 8270C		
			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	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
MW-16B-15.0	02/10/09	15.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
MW-16B-20.0	02/10/09	20.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
MW-16B-25.0	02/10/09	25.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
MW-16C-5.0	02/10/09	5.0	ND	1.9	1.7	0.12	ND	0.15	0.060	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
MW-16C-10.0	02/10/09	10.0	42	29	<b>2,300</b>	<b>9.6</b>	17	<b>30</b>	<b>160</b>	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
MW-16C-15.0	02/10/09	15.0	ND	ND	6.1	0.13	0.12	0.11	0.54	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
MW-16C-20.0	02/10/09	20.0	ND	ND	ND	ND	ND	ND	0.014	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
MW-16C-25.0	02/10/09	25.0	ND	ND	0.39	0.0075	0.012	0.0090	0.038	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
MW-16C-30.0	02/10/09	30.0	ND	ND	0.40	0.0076	0.011	0.0091	0.038	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na		
<b>Groundwater Extraction Pit</b>																											
GEP-1-5.0	09/26/07	5.0	ND	6.7	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
GEP-1-10.0	09/26/07	10.0	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	
GEP-1-15.0	09/26/07	15.0	<b>310</b>	<b>220</b>	<b>3,900</b>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	

Concentrations in bold script exceed the 2008 San Francisco Bay Area RWQCB's Residential Environmental Screening Levels in shallow or deep soils, as appropriate, where groundwater is not a source of drinking water.

Notes:

- (1) ND = Not Detected above the Method Detection Limit (MDL).
- (2) na = Not analyzed
- (3) The laboratory reports that the detected hydrocarbon does not match its mineral spirits standard.
- (4) The laboratory reports that the detected hydrocarbon does not match its Diesel standard.
- (5) The laboratory reports that the detected hydrocarbon does not match its standard for gasoline.
- (6) Laboratory Method EPA 8260B analyzes for 108 Volatile Organic Compounds. Only those found are listed separately in this table.
- (7) The laboratory reports that the compound reported reflects individual or discrete unidentified peaks detected in the diesel range; the pattern does not match a typical fuel standard.
- (8) The laboratory reports that the hydrocarbon reported is in the early Diesel range and does not match the laboratory's Diesel standard.
- (9) Laboratory Method EPA 8270C analyzes for 17 Polynuclear Aromatics. Only those found are listed separately in this table.
- (10) Concentrations in bold script exceed the 2008 San Francisco Bay Area RWQCB's Environmental Screening Levels in shallow or deep soils, as appropriate, where groundwater is not a source of drinking water.
- (11) MWT-1-20.0 was also analyzed for 65 Semi-volatile chemicals by GC/MD - EPA8270C. None were detected in the sample.
- (12) Quantity of unknown hydrocarbon(s) in sample based on Diesel
- (13) Quantity of unknown hydrocarbon(s) in sample based on Mineral Spirits
- (14) Quantity of unknown hydrocarbon(s) in sample based on Gasoline
- (15) When first drilled, MW-6A was designated MW-17.
- (16) Concentrations of chemicals of concern that were detected in samples recovered from locations where soil has since been shipped off site are shown in *italic font*. At locations where the undisturbed in situ soil was excavated and the areas were restored with engineered fill derived from on-site soil, the concentrations are shown in smaller font.

## TABLE 2

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TABLE 2  
HEAVY METALS IN NATIVE AND IMPORTED SOIL  
OAK WALK SITE

Sample No.	Date Sampled	Depth BGS ft.	Anti-mony mg/Kg	Ar-senic mg/Kg	Bar-ium mg/Kg	Beryl-lium mg/Kg	Cad-mium mg/Kg	Chro-mium III mg/Kg	Chro-mium VI mg/Kg	Cobalt mg/Kg	Copper mg/Kg	Lead mg/Kg	Molyb-denum mg/Kg	Nickel mg/Kg	Sele-nium mg/Kg	Silver mg/Kg	Thal-lium mg/Kg	Vana-dium mg/Kg	Zinc mg/Kg	Mer-cury mg/Kg
BE-4-5.5	04/01/04	5.5	ND <sup>1</sup>	<b>2.6</b> <sup>3</sup>	110	ND	ND	27	na	2.6	17	4.3	ND	24	ND	ND	ND	<b>22</b> <sup>3</sup>	31	ND
BE-1-13.5	04/02/04	13.5	ND	1.3	110	ND	ND	35	ND	4.9	12	4.1	ND	46	ND	ND	ND	24	28	0.053
BE-3-19.5	04/02/04	19.5	ND	2.1	150	ND	ND	30	na	6.9	19	5.4	ND	26	ND	ND	ND	25	32	ND
Los Altos	08/21/07	19.5	na	na	na	na	ND	88	na	na	na	ND	na	63	na	na	na	na	28	na

Concentrations in bold script exceed the 2008 San Francisco Bay Area RWQCB's Residential Environmental Screening Levels in shallow or deep soils, as appropriate, where groundwater is not a source of drinking water.

Notes:

- (1) ND = Not Detected above the Method Detection Limit (MDL). na = not analyzed
- (2) Concentrations of chemicals of concern that were detected in samples recovered from locations where soil has since been shipped off site are shown in *italic font*. At locations where the undisturbed in situ soil was excavated and the areas were restored with engineered fill derived from on-site soil, the concentrations are shown in smaller font.
- (3) No heavy metals were detected at concentrations greater than those that are typical of their natural presence in the alluvial materials that originated in the Oakland Hills to the east of the subject site (Lawrence Berkeley National Laboratory 1995, Bradford, et al 1996).

## TABLE 3

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TABLE 3

RESULTS OF ANALYSES OF SOIL SAMPLES RECOVERED FROM OFF-SITE LOCATIONS

Sample ID	Date Sampled	Sample Depth ft. BGS	TRPH mg/Kg	Motor Oil mg/Kg	Mineral Spirits mg/Kg	TPHd mg/Kg	Kero-sene mg/Kg	TPHg mg/Kg	Ben-zene mg/Kg	Tolu-ene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	p-isopro-pyltoluene mg/Kg	Ace-tone mg/Kg	tert-Butyl-benzene mg/Kg	sec-Butyl-benzene mg/Kg	Naph-thalene mg/Kg	Other VOCs mg/Kg	PCBs mg/Kg	Lead mg/Kg
Borings for Dunne Paint Site <sup>3,4,5</sup>																				
HAB-1-4	06/10/92	4.0	na <sup>11</sup>	ND <sup>10</sup>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
HAB-1-7	06/10/92	7.0	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
HAB-2-4	06/10/92	4.0	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
HAB-2-7	06/10/92	7.0	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
HAB-3-4	06/10/92	4.0	na	ND	4.9	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
HAB-3-7	06/10/92	7.0	na	ND	1.5	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
HAB-4-4	06/10/92	4.0	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
HAB-4-7	06/10/92	7.0	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
HAB-5-4	06/10/92	4.0	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
HAB-5-7	06/10/92	7.0	na	ND	17	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
HAB-6-4	06/10/92	4.0	na	ND	3.4	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
HAB-6-7	06/10/92	7.0	na	ND	620	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
CDB-1@11	11/04/02	11.0	na	ND	na	ND	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
CDB-2@6	11/04/02	6.0	na	ND	na	160 <sup>12</sup>	na	94 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	ND	0.025	ND	na	7.3
CDB-2@16	11/04/02	16.0	na	ND	na	13 <sup>12</sup>	na	210 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
CDB-3@3	11/04/02	3.0	na	ND	na	ND	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	15
CDB-3@13	11/04/02	13.0	na	ND	na	37 <sup>12</sup>	na	250 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	0.115	0.048	1,2,4 trimethylbenzene 0.740	na	ND
CDB-4@10	11/04/02	10.0	na	ND	na	52 <sup>12</sup>	na	74 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	hexachlorobutadiene 0.092	na	ND
CDB-5@3	11/04/02	3.0	na	ND	na	ND	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	24
CDB-5@13	11/04/02	13.0	na	ND	na	21 <sup>12</sup>	na	180 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	ND	0.413	ND	na	ND
CDB-6@9	11/04/02	9.0	na	ND	na	38 <sup>12</sup>	na	440 <sup>12</sup>	ND	ND	ND	ND	ND	ND	0.0063	ND	0.081	ND	na	ND
CDB-7@4	11/04/02	4.0	na	5.5	na	120 <sup>12</sup>	na	250 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	0.017	ND	ND	na	24
CDB-7@12	11/04/02	12.0	na	ND	na	76 <sup>12</sup>	na	130 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	ND	0.060	ND	na	ND
CDB-7@23	11/04/02	23.0	na	ND	na	7.0 <sup>12</sup>	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
CDB-8@5	11/04/02	5.0	na	ND	na	130 <sup>12</sup>	na	230 <sup>12</sup>	ND	ND	ND	ND	ND	ND	0.027	ND	ND	ND	na	3.0
CDB-8@17	11/04/02	17.0	na	ND	na	40 <sup>12</sup>	na	130 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
CDB-9@6	11/05/02	6.0	na	ND	na	4.8 <sup>12</sup>	na	6.2 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	6.7
CDB-9@14	11/05/02	14.0	na	ND	na	100 <sup>12</sup>	na	513 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND

Table 3

Sample ID	Date Sampled	Sample Depth ft. BGS	TRPH mg/Kg	Motor Oil mg/Kg	Mineral Spirits mg/Kg	TPHd mg/Kg	Kero-sene mg/Kg	TPHg mg/Kg	Benzene mg/Kg	Tolu-ene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	p-isopro-pyltoluene mg/Kg	Ace-tone mg/Kg	tert-Butyl-benzene mg/Kg	sec-Butyl-benzene mg/Kg	Naph-thalene mg/Kg	Other VOCs mg/Kg	PCBs mg/Kg	Lead mg/Kg
CDB-10@6	11/05/02	6.0	na	ND	na	3,500 <sup>12</sup>	na	3,600 <sup>12</sup>	ND	ND	1.0	ND	ND	ND	ND	0.550	14	Isopropylbenzene 710 n-Propylbenzene 1,200 1,2,4-Trimethylbenzene 1,400	na	6.1
CDB-10@9	11/05/02	9.0	na	ND	na	220 <sup>12</sup>	na	380 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
CDB-10@25	11/05/02	25.0	na	ND	na	1.1 <sup>12</sup>	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
CDB-11@3	11/05/02	3.0	na	ND	na	4,300 <sup>12</sup>	na	2,500 <sup>12</sup>	ND	ND	3,500	ND	ND	ND	ND	ND	4,600	n-Propylbenzene 2,000 1,2,4-Trimethylbenzene 8,600 1,2,5-Trimethylbenzene 4,200	na	100
CDB-11@10	11/05/02	10.0	na	ND	na	720 <sup>12</sup>	na	1,800 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	na	ND
CDB-11@16	11/05/02	16.0	na	51	na	510 <sup>12</sup>	na	2,100 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	na	ND
CDB-12@3	11/05/02	3.0	na	ND	na	1.6	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	280
CDB-13@14	11/05/02	14.0	na	ND	na	160 <sup>12</sup>	na	400 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	ND
CDB-14@3	11/05/02	3.0	na	24	na	9.4	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.012	ND	na	130
CDB-16@3	11/05/02	3.0	na	28	na	6.0	na	7.4 <sup>12</sup>	ND	ND	ND	ND	ND	ND	ND	ND	0.012	ND	na	5.0
OB-2	06/30/03	10.5	na	na	160	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
OB-10	06/30/03	10.0	na	na	430	na	na	na	na	na	na	na	na	ND	na	ND	ND	na	na	na
B-1-3.5	02/10/05	3.5	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
B-1-7.5	02/10/05	7.5	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
B-1-11.5	02/10/05	11.5	na	na	180	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
B-2-3.5	02/10/05	3.5	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
B-2-7.5	02/10/05	7.5	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
B-2-12.5	02/10/05	12.5	na	na	9.6	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
B-3-3.5	02/10/05	3.5	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
B-3-7.5	02/10/05	7.5	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
B-3-11.5	02/10/05	11.5	na	na	330	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
B-4-3.5	02/10/05	3.5	na	na	ND	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
B-4-7.5	02/10/05	7.5	na	na	ND	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
B-4-11.5	02/10/05	11.5	na	na	1,600	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
B-4-13.5	02/10/05	13.5	na	na	1,400	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
B-5-3.5	02/10/05	3.5	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
B-5-7.5	02/10/05	7.5	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
B-5-11.5	02/10/05	11.5	na	na	4,900	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
B-5-13.5	02/10/05	13.5	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
B-6-3.5	02/10/05	3.5	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
B-6-7.5	02/10/05	7.5	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
B-6-11.5	02/10/05	11.5	na	na	380	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
B-6-13.5	02/10/05	13.5	na	na	260	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Table 3

Sample ID	Date Sampled	Sample Depth ft. BGS	TRPH mg/Kg	Motor Oil mg/Kg	Mineral Spirits mg/Kg	TPHd mg/Kg	Kero-sene mg/Kg	TPHg mg/Kg	Ben-zene mg/Kg	Tolu-ene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	p-isopro-pyltoluene mg/Kg	Ace-tone mg/Kg	tert-Butyl-benzene mg/Kg	sec-Butyl-benzene mg/Kg	Naph-thalene mg/Kg	Other VOCs mg/Kg	PCBs mg/Kg	Lead mg/Kg
Borings for Boysen Paint Site <sup>3,5,9</sup>																				
BH-A	2004	11.5	na	na	8.3	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-B	2004	11.5	na	na	130	na	na	na	ND	ND	ND	ND	ND	0.086	ND	ND	ND	ND	na	na
BH-C	2004	14.5	na	na	13	na	na	na	ND	ND	ND	ND	ND	0.052	ND	ND	ND	ND	na	na
BH-D	2004	15.5	na	na	5.4	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-E	2004	15.5	na	na	2.0	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-F	2004	19.5	na	na	ND	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-G	2004	19.5	na	na	ND	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-H	2004	7.5	na	na	14	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-I	2004	1.0	na	na	6.6	na	na	na	ND	ND	ND	ND	0.040	ND	0.015	0.040	0.040	ND	na	na
BH-J	2004	11.5	na	na	2.3	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-K	2004	15.5	na	na	ND	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-L	2004	19.5	na	na	1.2	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-M	2004	11.5	na	na	ND	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-N	2004	11.5	na	na	ND	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-O	2004	20.5	na	na	ND	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-P	2004	7.5	na	na	140	na	na	na	ND	ND	ND	ND	ND	0.085	0.0074	ND	ND	ND	na	na
BH-Q	2004	19.5	na	na	27	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-R	2004	11.5	na	na	14	na	na	na	ND	ND	ND	ND	ND	0.130	0.010	ND	ND	ND	na	na
BH-S	2004	11.5	na	na	ND	na	na	na	ND	ND	ND	ND	ND	ND	0.0056	ND	ND	ND	na	na
BH-T	2004	11.5	na	na	6.6	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-U	2004	7.5	na	na	ND	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-V	2004	11.5	na	na	12	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
	2004	25.5	na	na	3.3	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-W	2004	7.5	na	na	24	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na

Table 3

Sample ID	Date Sampled	Sample Depth ft. BGS	TRPH mg/Kg	Motor Oil mg/Kg	Mineral Spirits mg/Kg	TPHd mg/Kg	Kero-sene mg/Kg	TPHg mg/Kg	Ben-zene mg/Kg	Tolu-ene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	p-isopro-pyltoluene mg/Kg	Ace-tone mg/Kg	tert-Butyl-benzene mg/Kg	sec-Butyl-benzene mg/Kg	Naph-thalene mg/Kg	Other VOCs mg/Kg	PCBs mg/Kg	Lead mg/Kg
BH-X	2004	11.5	na	na	5.8	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-Y	2004	8.5	na	na	44	na	na	na	ND	ND	ND	ND	0.036	0.067	ND	ND	ND	ND	na	na
BH-Z	2004	11.5	na	na	51	na	na	na	ND	ND	ND	ND	0.026	0.100	ND	ND	0.028	ND	na	na
BH-AA	2004	11.5	na	na	<b>1,100</b>	na	na	na	ND	ND	ND	ND	0.058	ND	ND	ND	ND	ND	na	na
BH-BB	2004	11.5	na	na	<b>320</b>	na	na	na	ND	ND	ND	ND	0.017	ND	ND	ND	ND	ND	na	na
BH-CC	2004 2004	11.5 19.5	na na	na na	31 ND	na na	na na	na na	ND ND	ND ND	ND ND	ND ND	0.032 ND	ND ND	ND ND	ND ND	ND ND	ND ND	na na	na na
BH-DD	Aug. 2005	11.5	na	na	ND	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
BH-EE	Aug. 2005 Aug. 2005	3.5 23.5	na na	na na	ND ND	na na	na na	na na	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	na na	na na
BH-FF	Aug. 2005 Aug. 2005	3.5 23.5	na na	na na	ND ND	na na	na na	na na	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	na na	na na
BH-GG	Aug. 2005 Aug. 2005	5.5 19.5	na na	na na	ND ND	na na	na na	na na	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	na na	na na
BH-HH	Aug. 2005 Aug. 2005	5.5 11.5	na na	na na	ND 7.1	na na	na na	na na	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	na na	na na
BH-II	Aug. 2005 Aug. 2005 Aug. 2005	14.5 24.5 34.5	na na na	na na na	19 7.1 7.1	na na na	na na na	na na na	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	0.056 ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	na na na	na na na
BH-JJ	Aug. 2005 Aug. 2005	11.5 15.5	na na	na na	ND ND	na na	na na	na na	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	na na	na na
BH-KK	Aug. 2005 Aug. 2005	11.5 23.5	na na	na na	ND ND	na na	na na	na na	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	na na	na na
BH-LL	Aug. 2005 Aug. 2005	11.5 23.5	na na	na na	ND ND	na na	na na	na na	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	na na	na na
BH-MM	Aug. 2005 Aug. 2005	11.5 15.5	na na	na na	56 ND	na na	na na	na na	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	na na	na na
BH-NN	Aug. 2005 Aug. 2005	11.5 15.5	na na	na na	15 ND	na na	na na	na na	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	na na	na na
B-1-11.5 B-1-14	05/30/06 05/30/06	11.5 14	ND ND	ND ND	55 <b>110</b>	na na	na na	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	na na	na na
B-2-7 B-2-15	05/30/06 05/30/06	7.0 15.0	ND ND	ND ND	ND ND	ND ND	ND ND	ND 0.12	ND ND	ND 0.00052	ND ND	ND ND	ND ND	ND 0.020	ND ND	ND ND	ND ND	ND ND	na na	na na

Table 3

Sample ID	Date Sampled	Sample Depth ft. BGS	TRPH mg/Kg	Motor Oil mg/Kg	Mineral Spirits mg/Kg	TPHd mg/Kg	Kero-sene mg/Kg	TPHg mg/Kg	Benzene mg/Kg	Tolu-ene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	p-isopro-pyltoluene mg/Kg	Acet-ONE mg/Kg	tert-Butyl-benzene mg/Kg	sec-Butyl-benzene mg/Kg	Naph-thalene mg/Kg	Other VOCs mg/Kg	PCBs mg/Kg	Lead mg/Kg
B-3-7	05/30/06	7.0	ND	ND	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
B-4-7	05/30/06	7.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
B-5-7	05/30/06	7.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na
Borings and Confirmation Sampling for Celis Site <sup>1,2,6</sup>																				
LF-LFMW-1	07/08/93	4.5	77	16	na	220	na	550	0.84	1.2	5.6	2.7	na	na	na	na	na	na	na	na
	07/08/93	9.5	ND	ND	na	18	na	470	0.97	ND	6.6	8.9	na	na	na	na	na	na	na	na
	07/08/93	14.5	60	ND	na	16	na	8.4	0.14	0.17	0.081	0.37	na	na	na	na	na	na	na	na
LF-LFMW-2	07/08/93	9.5	30	ND	na	14	na	ND	4.7	35	13	68	na	na	na	na	na	na	na	na
	07/08/93	14.5	ND	ND	na	ND	na	75	0.009	0.012	ND	0.015	na	na	na	na	na	na	na	na
LF-LFMW-3	07/08/93	9.5	37	ND	na	ND	na	ND	0.062	0.28	1.1	1.1	na	na	na	na	na	na	na	na
	07/08/93	14.5	ND	ND	na	ND	na	850	0.014	ND	0.01	0.007	na	na	na	na	na	na	na	na
LF-LFMW-4	01/28/94	5	na	ND	na	ND	na	0.8	0.083	ND	ND	0.034	na	na	na	na	na	na	na	na
	01/28/94	10	na	ND	na	19	na	220	1.7	6.7	4.5	24	na	na	na	na	na	na	na	na
WC N-1	8/14/1994	8.0	ND	na	na	21	na	920	2.6	21	11	57	na	na	na	na	na	na	na	na
WC N-2	8/14/1994	8.0	ND	na	na	10	na	250	0.097	0.83	2.5	11	na	na	na	na	na	na	na	na
WC N-3	8/14/1994	8.0	ND	na	na	96	na	390	0.38	3	3.6	17	na	na	na	na	na	na	na	na
WC N-4	Late 1994	8.0	160	na	na	310	na	85	0.16	ND	1	1.3	na	na	na	na	na	na	na	na
WC W-1	8/14/1994	8.0	ND	na	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
WC W-2	8/14/1994	8.0	ND	na	na	34	na	230	0.34	0.61	2.3	6.9	na	na	na	na	na	na	na	na
WC W-3	8/14/1994	8.0	ND	na	na	180	na	20	0.012	0.01	0.029	0.043	na	na	na	na	na	na	na	na
WC W-4	8/14/1994	8.0	150	na	na	500	na	80	ND	0.073	0.26	0.99	na	na	na	na	na	na	na	na
WC S-1	8/14/1994	8.0	na	na	na	na	na	800	1.7	6	9.9	41	na	na	na	na	na	na	na	na
WC S-2	8/14/1994	8.0	ND	na	na	60	na	430	0.4	0.2	4	12	na	na	na	na	na	na	na	na
WC S-3	8/14/1994	8.0	na	na	na	na	na	730	1.4	ND	11	1.7	na	na	na	na	na	na	na	na
WC S-4	8/14/1994	8.0	ND	na	na	25	na	560	ND	ND	5.6	13	na	na	na	na	na	na	na	na
WC E-1	8/14/1994	8.0	na	na	na	na	na	240	0.33	3.5	3.4	16	na	na	na	na	na	na	na	na
WC E-2	8/14/1994	8.0	ND	na	na	2	na	170	0.81	3.4	1.8	8.9	na	na	na	na	na	na	na	na
WC E-3	8/14/1994	8.0	na	na	na	na	na	660	2.9	18	9.2	46	na	na	na	na	na	na	na	na
WC E-4	8/14/1994	8.0	ND	na	na	5.2	na	380	2.6	12	4.9	24	na	na	na	na	na	na	na	na
WC B-C-1	8/14/1994	9.5	ND	na	na	68	na	260	0.081	0.11	2	8.4	na	na	na	na	na	na	na	na
WC B-O&G-1	8/14/1994	9.5	ND	na	na	160	na	490	2.4	9.9	6.3	27	na	na	na	na	na	na	na	na
WC B-D-1	8/14/1994	9.5	15,000	na	na	18,000	na	650	3.8	1.7	8.1	17	na	na	na	na	na	na	na	na
WC B-G-1	8/14/1994	9.5	120	na	na	ND	na	540	0.64	ND	6.5	12	na	na	na	na	na	na	na	na
WC B-C-2	8/14/1994	9.5	ND	na	na	75	na	1,000	2.4	10	11	49	na	na	na	na	na	na	na	na
WC B-C-3	8/14/1994	9.5	ND	na	na	29	na	690	2.2	15	7.3	39	na	na	na	na	na	na	na	na
URS-SB-1-6-6.5	02/06/06	6.0	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-SB-1-10-10.	02/06/06	10.0	na	na	6.2	5.1	na	ND	6.2	5.1	ND	ND	na	na	na	na	na	na	na	na
URS-SB-1-15.5-1	02/06/06	15.5	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na

Table 3

Sample ID	Date Sampled	Sample Depth ft. BGS	TRPH mg/Kg	Motor Oil mg/Kg	Mineral Spirits mg/Kg	TPHD mg/Kg	Kero-sene mg/Kg	TPHg mg/Kg	Benzene mg/Kg	Tolu-ene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	p-isopro-pyltoluene mg/Kg	Ace-tone mg/Kg	tert-Butyl-benzene mg/Kg	sec-Butyl-benzene mg/Kg	Naph-thalene mg/Kg	Other VOCs mg/Kg	PCBs mg/Kg	Lead mg/Kg
URS-SB-1-18.5-1	02/06/06	18.5	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-SB-3-6-6.5	02/07/06	6.0	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-SB-3-11-11.0	02/07/06	11.0	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-SB-3-15.5-1	02/07/06	15.5	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-SB-6-5.5-6	02/07/06	5.5	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-SB-6-11.5-1	02/07/06	11.5	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-SB-6-15.5-1	02/07/06	15.5	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-SB-6-19.5-2	02/07/06	19.5	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-MW-1-6.5	07/02/07	6.0	na	na	ND	1.9	na	ND	ND	1.9	ND	ND	na	na	na	na	na	na	na	na
URS-MW-1-11.0	07/02/07	10.5	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-MW-1-16.0	07/02/07	15.5	na	na	ND	11	na	ND	ND	11	ND	ND	na	na	na	na	na	na	na	na
URS-MW-2-5.5	07/02/07	5.0	na	na	ND	1.3	na	ND	ND	1.3	ND	ND	na	na	na	na	na	na	na	na
URS-MW-2-11.0	07/02/07	10.5	na	na	ND	1.4	na	ND	ND	1.4	ND	ND	na	na	na	na	na	na	na	na
URS-MW-2-16.0	07/02/07	15.5	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-MW-3-10.0	06/29/07	9.5	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-MW-3-15.0	06/29/07	14.5	na	na	ND	1.8	na	ND	ND	1.8	ND	ND	na	na	na	na	na	na	na	na
URS-MW-3-20.0	06/29/07	19.5	na	na	ND	1.3	na	ND	ND	1.3	ND	ND	na	na	na	na	na	na	na	na
URS-MW-4-9.0	06/29/07	8.5	na	na	ND	8.0	na	ND	ND	8.0	ND	ND	na	na	na	na	na	na	na	na
URS-MW-4-14.5	06/29/07	14.0	na	na	ND	6.7	na	ND	ND	6.7	ND	ND	na	na	na	na	na	na	na	na
URS-MW-4-20.0	06/29/07	19.5	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-MW-5-6.5	06/29/07	6.0	na	na	2.2	5.1	na	3.8	2.2	5.1	3.8	ND	na	na	na	na	na	na	na	na
URS-MW-5-10.0	06/29/07	9.5	na	na	68	13	na	120	68	13	120	ND	na	na	na	na	na	na	na	na
URS-MW-5-15.0	06/29/07	14.5	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
Borings and Confirmation Sampling for San Francisco Bread Site <sup>1,6,7,8</sup>																				
SMW-1-6	09/04/92	18.5	na	na	na	ND	na	ND	0.0078	0.0061	ND	ND	na	na	na	na	na	na	na	4.9
LFSB17-4.5	08/09/93	4.5	70	ND	na	40	na	260	ND	22	12	69	na	na	na	na	na	na	na	na
LFSB17-6.0	08/09/93	7	50	ND	na	70	na	440	ND	27	8	43	na	na	na	na	na	na	na	na
LFSB17-12.0	08/09/93	12	47	190	na	130	na	500	190	9	4	23	na	na	na	na	na	na	na	na
MW-3-5.0	04/07/04	5.0	Lost Core		na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MW-3-10.0	04/07/04	10.0	Lost Core		na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MW-3-15.0	04/07/04	15.0	ND	ND	ND	ND	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na
MW-3-20.0	04/07/04	120.0	ND	ND	ND	ND	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na
URS-MW-5-6.5	06/29/07	6.0	na	na	2.2	5.1	na	3.8	ND	ND	ND	ND	na	na	na	na	na	na	na	na
URS-MW-5-10.0	06/29/07	9.5	na	na	68	13	na	120	ND	ND	2.3	ND	na	na	na	na	na	na	na	na
URS-MW-5-15.0	06/29/07	14.5	na	na	ND	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
Borings and Confirmation Sampling in 40th Street <sup>1</sup>																				

Sample ID	Date Sampled	Sample Depth ft. BGS	TRPH mg/Kg	Motor Oil mg/Kg	Mineral Spirits mg/Kg	TPHd mg/Kg	Kero-sene mg/Kg	TPHg mg/Kg	Bene-zene mg/Kg	Tolu-ene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	p-isopro-pyltoluene mg/Kg	Ace-tone mg/Kg	tert-Butyl-benzene mg/Kg	sec-Butyl-benzene mg/Kg	Naph-thalene mg/Kg	Other VOCs mg/Kg	PCBs mg/Kg	Lead mg/Kg
LFSB1-7.0	08/08/93	7	290	27	na	240	na	850	5.4	ND	25	42	na	na	na	na	na	na	na	na
LFSB1-9.5	08/08/93	9.5	130	ND	na	220	na	180	0.89	1.1	4.3	18	na	na	na	na	na	na	na	na
LFSB1-14.5	08/08/93	14.5	60	ND	na	ND	na	7.4	0.44	0.44	0.14	0.61	na	na	na	na	na	na	na	na
LFSB2-7.0	08/08/93	7	160	57	na	790	na	780	8	ND	31	140	na	na	na	na	na	na	ND	na
LFSB2-9.5	08/08/93	9.5	210	ND	na	200	na	720	2.4	5.2	15	59	na	na	na	na	na	na	na	na
LFSB2-14.5	08/08/93	14.5	43	12	na	ND	na	1.0	0.2	0.21	0.021	0.12	na	na	na	na	na	na	ND	na
LFSB3-9.5	08/07/93	9.5	37	ND	na	11	na	580	9.7	50	15	90	na	na	na	na	na	na	ND	na
LFSB3-14.5	08/07/93	14.5	37	ND	na	ND	na	0.9	0.092	0.16	0.031	0.17	na	na	na	na	na	na	ND	na
LFSB4-7.0	08/08/93	7	70	ND	na	13	na	380	3	5.2	8.2	18	na	na	na	na	na	na	na	na
LFSB4-14.5	08/08/93	14.5	210	ND	na	ND	na	ND	0.026	0.005	0.019	0.023	na	na	na	na	na	na	na	na
LFSB5-7.0	08/08/93	7	37	ND	na	15	na	410	2.4	0.6	16	6.3	na	na	na	na	na	na	na	na
LFSB5-14.5	08/08/93	14.5	93	ND	na	ND	na	ND	0.011	ND	0.008	0.008	na	na	na	na	na	na	na	na
LFSB6-9.5	08/08/93	9.5	67	ND	na	51	na	490	2.7	ND	15	15	na	na	na	na	na	na	na	na
LFSB6-14.5	08/08/93	14.5	ND	ND	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LFSB7-9.5	08/07/93	9.5	170	66	na	52	na	750	2.5	8.5	22	93	na	na	na	na	na	na	na	na
LFSB7-14.5	08/07/93	14.5	ND	ND	na	ND	na	2.8	ND	ND	0.029	0.03	na	na	na	na	na	na	na	na
LFSB8-9.5	08/08/93	9.5	130	ND	na	110	na	2,800	22	9.5	82	290	na	na	na	na	na	na	na	na
LFSB8-14.5	08/08/93	14.5	37	11	na	ND	na	ND	0.009	ND	ND	ND	na	na	na	na	na	na	na	na
LFSB9-7.0	08/07/93	7	ND	ND	na	14	na	210	2.8	13	5.1	29	na	na	na	na	na	na	na	na
LFSB9-9.5	08/07/93	9.5	na	na	na	na	na	1,200	14	81	26	140	na	na	na	na	na	na	na	na
LFSB9-14.5	08/07/93	14.5	77	ND	na	ND	na	ND	0.079	0.059	0.011	0.041	na	na	na	na	na	na	na	na
LFSB10-7.0	08/07/93	7	na	na	na	na	na	73	2.6	4.7	1.6	7.7	na	na	na	na	na	na	na	na
LFSB10-9.5	08/07/93	9.5	40	ND	na	ND	na	1,100	ND	7.8	ND	22	na	na	na	na	na	na	na	na
LFSB10-14.5	08/07/93	14.5	ND	ND	na	ND	na	8.6	0.48	0.29	0.1	0.48	na	na	na	na	na	na	na	na
LFSB11-14.5	08/09/93	14.5	40	11	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LFSB12-1.0	08/09/93	1	4,600	400	na	ND	na	ND	na	na	na	na	na	na	na	na	na	na	ND	na
LFSB12-3.0	08/09/93	3	420	64	na	560	na	6,500	na	na	na	na	na	na	na	na	na	na	ND	na
LFSB13-5.0	08/09/93	5	63	ND	na	ND	na	23	na	na	na	na	na	na	na	na	na	na	ND	na
LFSB13-6.5	08/09/93	6.5	37	ND	na	ND	na	13	na	na	na	na	na	na	na	na	na	na	ND	na
LFSB14-2.0	08/09/93	2	2,200	480	na	ND	na	42	na	na	na	na	na	na	na	na	na	na	0.22	na
LFSB14-4.5	08/09/93	4.5	47	ND	na	ND	na	ND	na	na	na	na	na	na	na	na	na	na	ND	na
LFSB15-4.5	08/09/93	4.5	480	12	na	140	na	4,700	na	na	na	na	na	na	na	na	na	na	ND	na
LFSB15-6.0	08/09/93	6	120	14	na	59	na	3,700	na	na	na	na	na	na	na	na	na	na	ND	na
LFSB16-4.5	08/09/93	4.5	60	ND	na	ND	na	9	na	na	na	na	na	na	na	na	na	na	ND	na
LFSB16-6.0	08/09/93	6	53	ND	na	ND	na	8	na	na	na	na	na	na	na	na	na	na	ND	na
LFSB18-1.0	08/09/93	1	2,200	320	na	ND	na	1	na	na	na	na	na	na	na	na	na	na	ND	na
LFSB18-3.0	08/09/93	3	1,100	390	na	ND	na	ND	na	na	na	na	na	na	na	na	na	na	ND	na
LFSB19-1.5	08/09/93	1.5	2,200	530	na	ND	na	ND	na	na	na	na	na	na	na	na	na	na	ND	na

Table 3

Sample ID	Date Sampled	Sample Depth ft. BGS	TRPH mg/Kg	Motor Oil mg/Kg	Mineral Spirits mg/Kg	TPHD mg/Kg	Kero-sene mg/Kg	TPHg mg/Kg	Benzene mg/Kg	Tolu-ene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	p-isopro-pyltoluene mg/Kg	Acetone mg/Kg	tert-Butyl-benzene mg/Kg	sec-Butyl-benzene mg/Kg	Naph-thalene mg/Kg	Other VOCs mg/Kg	PCBs mg/Kg	Lead mg/Kg
LFSB19-3.0	08/09/93	3	<b>3,600</b>	<b>740</b>	na	ND	na	1	na	na	na	na	na	na	na	na	na	na	ND	na
LF-1-4.5	08/07/93	4.5	77	16	na	<b>220</b>	na	<b>550</b>	<b>0.84</b>	1.2	<b>5.6</b>	2.7	na	na	na	na	na	na	na	na
LF-1-9.5	08/07/93	9.5	ND	ND	na	18	na	<b>470</b>	<b>0.97</b>	ND	<b>6.6</b>	8.9	na	na	na	na	na	na	na	na
LF-1-14.5	08/07/93	14.5	60	ND	na	16	na	8.4	0.14	0.17	0.081	0.37	na	na	na	na	na	na	na	na
LF-2-9.5	08/07/93	9.5	30	ND	na	14	na	<b>740</b>	<b>4.70</b>	<b>35</b>	<b>13</b>	<b>68</b>	na	na	na	na	na	na	na	na
LF-2-14.5	08/07/93	14.5	ND	ND	na	ND	na	ND	0.009	0.012	ND	0.015	na	na	na	na	na	na	na	na
LF-3-9.5	08/07/93	9.5	37	ND	na	ND	na	75	0.062	0.28	1.1	1.1	na	na	na	na	na	na	na	na
LF-3-14.5	08/07/93	14.5	ND	ND	na	ND	na	ND	0.014	ND	0.01	0.007	na	na	na	na	na	na	na	na
LF-B1-2	08/30/94	2	ND	na	na	ND	na	0.8	0.008	ND	0.016	0.085	na	na	na	na	na	na	na	na
LF-B1-5	08/30/94	5	30	na	na	ND	na	<b>110</b>	<b>0.840</b>	0.520	<b>3.2</b>	12	na	na	na	na	na	na	na	na
LF-B1-10	08/30/94	10	30	na	na	ND	na	<b>690</b>	<b>12</b>	<b>50</b>	<b>18</b>	<b>99</b>	na	na	na	na	na	na	na	na
LF-B2-2	08/30/94	2	10	na	na	ND	na	<b>110</b>	<b>0.6</b>	2.9	<b>3.3</b>	<b>16</b>	na	na	na	na	na	na	na	na
LF-B2-5	08/30/94	5	10	na	na	1.0	na	66	<b>0.37</b>	0.8	0.79	3.5	na	na	na	na	na	na	na	na
LF-B2-10	08/30/94	10	30	na	na	ND	na	<b>830</b>	<b>13</b>	<b>52</b>	<b>21</b>	<b>110</b>	na	na	na	na	na	na	na	na
LF-B3-2	08/30/94	2	80	na	na	ND	na	<b>440</b>	<b>8.5</b>	36	<b>12</b>	<b>58</b>	na	na	na	na	na	na	na	na
LF-B3-5	08/30/94	5	200	na	na	8.0	na	<b>810</b>	<b>14</b>	<b>62</b>	<b>22</b>	<b>100</b>	na	na	na	na	na	na	na	na
LF-B3-10	08/30/94	10	50	na	na	ND	na	<b>390</b>	<b>7.1</b>	<b>22</b>	<b>7.2</b>	<b>38</b>	na	na	na	na	na	na	na	na
LF-B4-2	08/30/94	2	40	na	na	ND	na	49	<b>0.14</b>	0.12	2.3	11	na	na	na	na	na	na	na	na
LF-B4-5	08/30/94	5	<b>1,300</b>	na	na	28	na	<b>8,800</b>	<b>6.8</b>	7.3	<b>190</b>	<b>870</b>	na	na	na	na	na	na	na	na
LF-B4-10	08/30/94	10	110	na	na	3.0	na	<b>510</b>	<b>1.1</b>	0.96	<b>3.4</b>	<b>13</b>	na	na	na	na	na	na	na	na
LF-B5-2	08/30/94	2	10	na	na	ND	na	0.4	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B5-5	08/30/94	5	<b>2,400</b>	na	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B5-10	08/30/94	10	ND	na	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B6-2	08/30/94	2	20	na	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B6-5	08/30/94	5	10	na	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B6-10	08/30/94	10	ND	na	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B7-2	08/30/94	2	10	na	na	ND	na	27	<b>0.42</b>	ND	0.75	0.05	na	na	na	na	na	na	na	na
LF-B7-5	08/30/94	5	ND	na	na	ND	na	16	<b>0.67</b>	ND	ND	0.025	na	na	na	na	na	na	na	na
LF-B7-10	08/30/94	10	20	na	na	ND	na	<b>520</b>	<b>7.4</b>	<b>30</b>	14	<b>78</b>	na	na	na	na	na	na	na	na
LF-B8-2	08/30/94	2	50	na	na	5.0	na	3.4	<b>0.2</b>	ND	0.56	0.02	na	na	na	na	na	na	na	na
LF-B8-5	08/30/94	5	ND	na	na	ND	na	14	<b>0.3</b>	0.01	0.26	ND	na	na	na	na	na	na	na	na
LF-B8-10	08/30/94	10	20	na	na	ND	na	<b>140</b>	<b>2.1</b>	5.8	4	<b>21</b>	na	na	na	na	na	na	na	na
LF-B9-2	08/30/94	2	20	na	na	ND	na	2.8	<b>0.33</b>	0.005	0.41	0.07	na	na	na	na	na	na	na	na
LF-B9-5	08/30/94	5	ND	na	na	ND	na	40	<b>1.2</b>	0.013	2.6	0.15	na	na	na	na	na	na	na	na
LF-B9-10	08/30/94	10	20	na	na	ND	na	<b>190</b>	<b>4.3</b>	<b>11</b>	5.5	<b>28</b>	na	na	na	na	na	na	na	na
LF-B10-2	08/30/94	2	150	na	na	ND	na	29	0.038	0.048	0.18	<b>1.2</b>	na	na	na	na	na	na	na	na
LF-B10-5	08/30/94	5	30	na	na	ND	na	13	ND	0.02	0.05	ND	na	na	na	na	na	na	na	na
LF-B10-10	08/30/94	10	ND	na	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B11-2	08/30/94	2	20	na	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B11-5	08/30/94	5	ND	na	na	ND	na	1	ND	ND	ND	ND	na	na	na	na	na	na	na	na

Table 3



Sample ID	Date Sampled	Sample Depth ft. BGS	TRPH mg/Kg	Motor Oil mg/Kg	Mineral Spirits mg/Kg	TPHd mg/Kg	Kero-sene mg/Kg	TPHg mg/Kg	Benzene mg/Kg	Tolu-ene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	p-isopro-pyltoluene mg/Kg	Ace-tone mg/Kg	tert-Butyl-benzene mg/Kg	sec-Butyl-benzene mg/Kg	Naph-thalene mg/Kg	Other VOCs mg/Kg	PCBs mg/Kg	Lead mg/Kg
LF-B11-10	08/30/94	10	40	na	na	ND	na	<b>250</b>	<b>1.1</b>	0.35	<b>4.4</b>	<b>21</b>	na	na	na	na	na	na	na	na
LF-B12-2	08/30/94	2	30	na	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B12-5	08/30/94	5	ND	na	na	ND	na	0.9	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B12-10	08/30/94	10	30	na	na	ND	na	<b>160</b>	<b>0.97</b>	0.19	<b>4.1</b>	<b>20</b>	na	na	na	na	na	na	na	na
LF-B13-2	08/30/94	2	<b>600</b>	na	na	<b>220</b>	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B13-5	08/30/94	5	40	na	na	10	na	4.2	ND	ND	0.02	ND	na	na	na	na	na	na	na	na
LF-B13-10	08/30/94	10	20	na	na	3.0	na	6.9	<b>0.36</b>	ND	0.45	0.13	na	na	na	na	na	na	na	na
LF-B14-2	08/30/94	2	<b>410</b>	na	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B14-5	08/30/94	5	ND	na	na	ND	na	1.6	0.01	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B14-10	08/30/94	10	ND	na	na	ND	na	2.9	0.006	ND	0.01	ND	na	na	na	na	na	na	na	na
LF-B15-2	08/30/94	2	<b>420</b>	na	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B15-5	08/30/94	5	ND	na	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B15-10	08/30/94	10	20	na	na	ND	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B16-2	08/30/94	2	50	na	na	10	na	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na
LF-B16-5	08/30/94	5	ND	na	na	ND	na	<b>28</b>	<b>0.16</b>	ND	0.96	0.037	na	na	na	na	na	na	na	na
LF-B16-10	08/30/94	10	20	na	na	ND	na	<b>130</b>	<b>2.5</b>	5.4	<b>2.6</b>	<b>15</b>	na	na	na	na	na	na	na	na

Concentrations in bold script exceed the 2008 San Francisco Bay Area RWQCB's Residential Environmental Screening Levels in shallow or deep soils, as appropriate, where groundwater is not a source of drinking water.

NOTES:

- (1) Data Source: Levine-Fricke 1994, 1993
- (2) Data Source: Woodward-Clyde International-Americas 1997, 1998
- (3) Data Source: Aqua Science Engineers, Inc. 2005a,b
- (4) Data Source: Clayton Group Services 2007, 2004a,b, 2003, 2002
- (5) Data Source: Hageman-Aquiar, Inc. 1992
- (6) Data Source: URS 2006, 2007a
- (7) Data Source: The San Joaquin Company 2005
- (8) Data Source: SEACOR Science and Engineering Analysis Corporation 1992
- (9) Data Source: Environmental Resource Management 2006
- (10) ND = Not Detected above the Method Detection Limit (MDL).
- (11) na = not analyzed
- (12) Laboratory reports pattern is closer to mineral spirits or Stoddard solvent.

## TABLE 4

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TABLE 4  
DEPTHS TO GROUNDWATER

Well No.	Date Measured	Casing Elevation ft. MSL	Groundwater Depth ft.	Groundwater Elevation ft. MSL
WCEW-1		41.73		
	05/19/04		7.88	33.85
	11/08/04		7.13	34.60
	04/15/07		7.39	34.34
	06/21/07		7.74	33.99
	08/09/07		8.00	33.73
	09/21/09		7.64	34.09
MW-2		44.40		
	05/19/04		5.98	38.42
	11/08/04		4.94	39.46
	04/15/07		4.86	39.54
	06/21/07		5.62	38.78
	08/09/07		5.42	38.98
	09/21/09		6.35	38.05
MW-3		45.49		
	05/19/04		5.66	39.83
	11/08/04		5.89	39.60
	04/15/07		5.25	40.24
	06/21/07		5.95	39.54
	08/09/07		6.57	38.92
	09/21/09		5.42	40.07
MW-4		47.31		
	05/19/04		6.19	41.12
	11/08/04		5.81	41.50
	09/21/09		7.42	39.89
MW-5		42.51		
	05/19/04		7.39	35.12
	11/08/04		7.09	35.42
	04/15/07		6.92	35.59
	06/21/07		7.50	35.01
	08/09/07		7.42	35.09
	09/21/09		6.01	36.50
MW-6 <sup>2</sup>		43.35		
	05/19/04		7.16	36.19
	11/08/04		6.93	36.42
MW-6A		43.18		
	09/21/09		6.16	37.02
MW-7		44.75		
	05/19/04		8.40	36.35
	11/08/04		8.10	36.65
	09/21/09		6.01	38.74

Well No.	Date Measured	Casing Elevation ft. MSL	Groundwater Depth ft.	Groundwater Elevation ft. MSL
MW-8	05/19/04	48.38	9.65	38.73
	11/08/04		9.05	39.33
	09/21/09		7.58	40.80
MW-9	09/21/09	47.85	7.91	39.94
MW-10	09/21/09	45.66	5.72	39.94
MW-11	09/21/09	45.10	7.43	37.67
MW-12	09/21/09	42.93	5.72	37.21
MW-13	09/21/09	45.56	7.61	37.95
MW-14	09/21/09	45.19	7.38	37.81
MW-15	09/21/09	43.55	6.55	37.00
MW-16A	09/21/09	44.50	7.00	37.50
MW-16B	09/21/09	44.59	7.24	37.35
MW-16C	09/21/09	44.48	7.61	36.87
<b>URS Off-site Wells</b>				
URS MW-1	09/21/09	42.21	8.15	34.06
URS MW-2	09/21/09	40.83	8.63	32.20
URS MW-3	09/21/09	40.54	9.89	30.65
URS MW-4	09/21/09	41.41	9.81	31.60
URS MW-5	09/21/09	43.93	5.84	38.09
LFMW-LF-4	09/21/09	40.76	7.71	33.05

Well No.	Date Measured	Casing Elevation ft. MSL	Groundwater Depth ft.	Groundwater Elevation ft. MSL
<b>Temporary Wells 2004</b>				
MWT-1	05/19/04	42.98	8.43	34.55
	11/08/04		6.82	36.16
MWT-2	05/19/04	45.28	7.69	37.59
	11/08/04		7.17	38.11
MWT-3	05/19/04	47.64	7.64	40.00
	11/08/04		7.66	39.98
MWT-4	05/19/04	44.74	8.43	36.31
	11/08/04		7.99	36.75
MWT-5	05/19/04	47.10	9.07	38.03
	11/08/04		8.84	38.26
MWT-6	05/19/04	45.21	9.05	36.16
	11/08/04		8.73	36.48
MWT-7 <sup>1</sup>	05/19/04	46.61	9.90	36.71
	11/08/04	45.69	8.60	37.09
MWT-8	05/19/04	47.23	9.65	37.58
	11/08/04		9.31	37.92
MWT-9	05/19/04	45.78	8.70	37.08
	11/08/04		8.23	37.55
MWT-10	05/19/04	47.22	9.53	37.69
	11/08/04		9.03	38.19
MWT-11	11/08/04	46.63	9.71	36.92
MWT-12	11/08/04	47.97	10.79	37.18
MWT-13	11/08/04	48.16	10.65	37.51
MWT-14	11/08/04	47.85	9.63	38.22

**Notes:**

- 1) MWT-7 casing truncated by vandals. Elevation resurveyed on 11/10/04
- 2) MW-6 damaged during construction. Replaced by MW-6A on 09/27/08

## TABLE 5

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TABLE 5

RESULTS OF ANALYSES OF GROUNDWATER SAMPLES RECOVERED FROM TRENCHES, PITS AND WELLS ON THE OAK WALK SITE

Sample ID	Date Sampled	Petroleum Hydrocarbons			BTEX Compounds				Fuel Oxygenates				Other Volatile Organic Compounds								PNAs				
		TPHd (diesel) µg/L	Mineral Spirits µg/L	TPHg (gasoline) µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	MTBE µg/L	TAME µg/L	ETBE µg/L	DIPE µg/L	TBA µg/L	n-Butylbenzene µg/L	sec-Butylbenzene µg/L	tert-Butylbenzene µg/L	isopropylbenzene µg/L	p-Isopropylbenzene µg/L	p-Isopropyltoluene µg/L	n-propylbenzene µg/L	1,2,4-trimethylbenzene µg/L	1,3,5-trimethylbenzene µg/L	52 Other VOCs by 8260B µg/L	Naphthalene µg/L	15 Other PNAs by 8270C µg/L
<b>Trenches</b>																									
T3-W	12/03/03	2,300 <sup>3</sup>	na	6,300 <sup>5</sup>	ND	ND	31	30	ND	na	na	na	na	100	47	ND	ND	23	ND	230	320	110	ND	12	ND
T7-W	12/02/03	ND	na	ND	ND	ND	ND	ND	ND	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
T-10W	09/24/07	6,100	9,100	70,000	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
W11	08/08/07	4,500	5,800	1,800	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
<b>Groundwater Extraction Pit</b>																									
GEP-1A	09/26/07	54,000	81,000	8,200	1.4	3.6	ND	2.2	1.9	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GEP-1B	10/04/07	530	810	1,100	ND	ND	ND	ND	ND	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Monitoring Wells</b>																									
WCEW-1	05/19/04	ND	600 <sup>6</sup>	3,700	90	0.66	48	56	170	na	na	na	na	ND	8.7	ND	12	1.8	ND	31	14	5.6	ND	8.3	ND
	09/24/09	1,600	390	1,400	1.5	ND	1.2	ND	150	ND	ND	ND	21	na	na	na	na	na	na	na	na	na	na	na	na
MW-2	05/19/04	ND	2,100 <sup>6</sup>	49,000	7,900	2,100	980	8,300	770	na	na	na	na	100	ND	ND	ND	ND	ND	ND	1,600	460	ND	490	ND
	09/18/07	1,400	1,500	8,300	1,500	ND	340	21	84	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	09/24/09	400	350	4,000	1,500	ND	520	ND	47	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
MW-3	05/19/04	ND	420 <sup>6</sup>	1,300	ND	ND	ND	1.1	5.8	na	na	na	na	14	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND
	09/24/09	110	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
MW-4	05/19/04	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/22/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
MW-5	05/19/04	ND	330 <sup>6</sup>	2,600 <sup>5</sup>	ND	ND	ND	ND	17	na	na	na	na	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/24/09	220	250	430	ND	ND	ND	ND	0.77	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
MW-6*	05/19/04	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Sample ID	Date Sampled	Petroleum Hydrocarbons			BTEX Compounds				Fuel Oxygenates					Other Volatile Organic Compounds									PNAs			
		TPHd (diesel) µg/L	Mineral Spirits µg/L	TPHg (gasoline) µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	MTBE µg/L	TAME µg/L	ETBE µg/L	DIPE µg/L	TBA µg/L	n-Butylbenzene µg/L	sec-Butylbenzene µg/L	tert-Butylbenzene µg/L	isopropylbenzene µg/L	p-Isopropylbenzene µg/L	p-Isopropyltoluene µg/L	n-propylbenzene µg/L	1,2,4-trimethylbenzene µg/L	1,3,5-trimethylbenzene µg/L	52 Other VOCs by 8260B µg/L	Naphthalene µg/L	15 Other PNAs by 8270C µg/L	
MW-6A	09/22/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-7	05/19/04 09/22/09	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	na na	na na	na na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	
MW-8	05/19/04 09/22/09	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	na na	na na	na na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	ND na	
MW-9	09/24/09	78	ND	190	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-10	09/22/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-11	09/24/09	ND	ND	70	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-12	09/22/09	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-13	09/22/09	66	ND	130	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-14	09/22/09	72	ND	68	ND	ND	ND	ND	13	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-15	09/22/09	ND	ND	51	ND	ND	ND	ND	2.6	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-16A	09/22/09	<b>2,400</b>	<b>4,100</b>	<b>64,000</b>	<b>18,000</b>	<b>2,500</b>	<b>3,000</b>	<b>11,000</b>	830	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-16B	09/22/09	<b>410</b>	<b>480</b>	<b>4,000</b>	<b>1,600</b>	18	<b>150</b>	<b>170</b>	500	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
MW-16C	09/22/09	ND	ND	<b>270</b>	ND	ND	ND	ND	230	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
<b>URS Wells<sup>10</sup></b>																										
URS-MW-1	09/21/09	90	83	120	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
URS-MW-2	09/21/09	210	ND	ND	ND	ND	ND	ND	49	ND	ND	ND	40	na	na	na	na	na	na	na	na	na	na	na	na	
URS-MW-3	09/21/09	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
URS-MW-4	09/21/09	110	ND	ND	ND	ND	ND	ND	56	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
URS-MW-5	09/21/09	<b>1,100</b>	99	150	ND	ND	ND	ND	63	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
LF-MW-LF-4	09/21/09	<b>1,600</b>	<b>320</b>	<b>490</b>	ND	ND	7.9	ND	2.0	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	
<b>Temporary Wells</b>																										
MWT-1	5/19/04	ND	74 <sup>6</sup>	<b>350</b>	ND	ND	ND	ND	ND	na	na	na	na	8.0	ND	ND	1.0	ND	ND	1.0	ND	ND	ND	ND	ND	
MWT-2	5/19/04	ND	<b>3,200<sup>6</sup></b>	<b>28,000</b>	<b>460</b>	ND	<b>1,200</b>	<b>2,700</b>	66	na	na	na	na	100	ND	ND	ND	ND	ND	310	1,600	490	ND	<b>340</b>	ND	
MWT-3	5/19/04	ND	<b>450</b>	<b>1,000<sup>5</sup></b>	ND	ND	ND	ND	ND	na	na	na	na	ND	ND	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	



Sample ID	Date Sampled	Petroleum Hydrocarbons			BTEX Compounds				Fuel Oxygenates				Other Volatile Organic Compounds								PNAs				
		TPHd (diesel) µg/L	Mineral Spirits µg/L	TPHg (gasoline) µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	MTBE µg/L	TAME µg/L	ETBE µg/L	DIPE µg/L	TBA µg/L	n-Butylbenzene µg/L	sec-Butylbenzene µg/L	tert-Butylbenzene µg/L	isopropylbenzene µg/L	p-Isopropylbenzene µg/L	p-Isopropyltoluene µg/L	n-propylbenzene µg/L	1,2,4-trimethylbenzene µg/L	1,3,5-trimethylbenzene µg/L	52 Other VOCs by 8260B µg/L	Naphthalene µg/L	15 Other PNAs by 8270C µg/L
MWT-4	5/19/04	ND	88 <sup>6</sup>	<b>540<sup>5</sup></b>	ND	ND	ND	ND	na	na	na	na	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWT-5	5/19/04	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWT-6 <sup>9</sup>	5/19/04	ND	<b>980</b>	<b>4,200<sup>5</sup></b>	ND	ND	ND	ND	na	na	na	na	ND	ND	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWT-7	5/19/04	ND	<b>3,200</b>	<b>56,000<sup>5</sup></b>	0.78	ND	ND	ND	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWT-8	5/19/04	ND	<b>370</b>	<b>800<sup>5</sup></b>	ND	ND	ND	ND	na	na	na	na	ND	ND	1.6	ND	ND	ND	ND	ND	0.70	ND	ND	ND	ND
MWT-9	5/19/04	ND	ND	ND	ND	ND	ND	0.79	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MWT-10	5/19/04	ND	ND	59 <sup>5</sup>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-11	11/6/04	ND	<b>3,500<sup>7</sup></b>	<b>930<sup>8</sup></b>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-12	11/6/04	ND	<b>830<sup>7</sup></b>	<b>1,400<sup>8</sup></b>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-13	11/6/04	ND	<b>440<sup>7</sup></b>	<b>1,100<sup>5</sup></b>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MWT-14	11/6/04	ND	<b>1,200<sup>7</sup></b>	<b>4,600<sup>5</sup></b>	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Concentrations in bold script exceed the 2008 San Francisco Bay Area RWQCB's Residential Environmental Screening Levels in shallow soils where groundwater is not a source of drinking water.

Notes:

- (1) ND = Not Detected above the Method Detection Limit (MDL).
- (2) na = Not Analyzed.
- (3) The laboratory reports that the detected hydrocarbon does not match its diesel standard.
- (4) Laboratory Method 8260B tests for 66 Volatile Organic Compounds. Only those detected are presented on this table.
- (5) The laboratory reports that the detected hydrocarbon does not match its gasoline standard.
- (6) The laboratory reports that the detected hydrocarbon does not match its mineral spirits standard.
- (7) Quantity of unknown hydrocarbons in sample based on Mineral Spirits
- (8) Quantity of unknown hydrocarbons in sample based on gasoline
- (9) Monitoring Well MW-6 was destroyed on November 11, 2007 and replaced with Monitoring Well MW-6A on September 27, 2008
- (10) Data from URS

## TABLE 6

SJC

TABLE 6

RESULTS OF ANALYSES OF GROUNDWATER SAMPLES RECOVERED FROM OFF-SITE LOCATIONS

Sample ID	Date Sampled	Petroleum Hydrocarbons								Volatile Organic Compounds													
		TRPH µg/L	Motor Oil µg/L	TEPH µg/L	TPHd µg/L	Mineral Spirits µg/L	TPPH µg/L	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Total Xylenes µg/L	MTBE µg/L	Naphthalene µg/L	tert-Butyl Benzene µg/L	sec-Butyl Benzene µg/L	n-Butyl Benzene µg/L	1,2,4-Trimethyl benzene µg/L	Isopropyl benzene µg/L	Vinyl Chloride µg/L	1,1-Dichloro ethene µg/L	cis-1,2 Di-chloroethene µg/L	Other VOCs µg/L
Dunne Paint Site <sup>3,4,5</sup>																							
B-12	11/04/02	na <sup>11</sup>	260 <sup>12</sup>	na	17,000	na	na	9,200	63	13	ND <sup>10</sup>	26	ND	38	ND	52	47	6.5	120	ND	ND	ND	n-Propylbenzene 47
B-14	11/04/02	na	ND	na	220,000	na	na	170,000	ND	2.0	ND	ND	ND	30	ND	ND	ND	ND	ND	ND	ND	ND	DIPE 2.4
B-15	11/04/02	na	ND	na	16,000	na	na	4,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Carbon Disulfide 2.4
B-16	11/04/02	na	ND	na	1,200,000	na	na	150,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OB-1	06/27/03	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OB-2	06/30/03	na	na	na	na	12,000	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OB-3	06/27/03	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OB-4	06/27/03	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OB-5	06/27/03	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OB-6	06/27/03	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OB-7	06/27/03	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Trichloroethene 15; Tetrachloroethene 11
OB-8	06/27/03	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OB-9	06/27/03	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
OB-10	06/30/03	na	na	na	na	5,800	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CW-1	11/12/03	na	na	na	na	85	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/12/04	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/15/04	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/14/04	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CW-2	11/12/03	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/12/04	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/15/04	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/14/04	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CW-3	11/12/03	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	TCE 5.1
	03/12/04	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/15/04	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/14/04	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-D1	08/26/88	na	na	na	na	1,000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	01/18/89	na	na	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	04/24/89	na	na	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	02/21/90	na	na	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	06/10/92	na	na	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	06/10/93	na	na	na	na	230	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	09/29/93	na	na	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	09/29/93	na	na	na	na	110	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	12/14/99	na	na	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	11/12/03	na	na	na	na	85	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	03/12/04	na	na	na	na	260	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	06/15/04	na	na	na	na	100	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	09/14/04	na	na	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
MW-D2	08/26/88	na	na	na	na	1,600	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	01/18/89	na	na	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	04/24/89	na	na	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	02/21/90	na	na	na	na	300	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	06/10/92	na	na	na	na	76	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	06/10/93	na	na	na	na	9,100	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	09/24/93	na	na	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	09/29/93	na	na	na	na	220	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Sample ID	Date Sampled	TRPH μg/L	Motor Oil μg/L	TEPH μg/L	TPHd μg/L	Mineral Spirits μg/L	TPPH μg/L	TPHg μg/L	Benzene μg/L	Toluene μg/L	Ethyl Benzene μg/L	Total Xylenes μg/L	MTBE μg/L	Naphthalene μg/L	tert-Butyl Benzene μg/L	sec-Butyl Benzene μg/L	n-Butyl Benzene μg/L	1,2,4-Trimethyl benzene μg/L	Isopropyl benzene μg/L	Vinyl Chloride μg/L	1,1-Dichloro ethene μg/L	cis-1,2 Di-chloroethene μg/L	Other VOCs μg/L
	12/10/98	na	na	na	ND	180	95	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na	na	na
	12/14/99	na	na	na	na	100	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	11/12/03	na	na	na	na	1,400	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/12/04	na	na	na	na	330	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/15/04	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/14/04	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-1-W	02/10/05	na	na	na	na	330	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-2-W	02/10/05	na	na	na	na	220	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-4-W	02/10/05	na	na	na	na	1,600	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
B-5-W	02/10/05	na	na	na	na	7,200	na	na	ND	ND	ND	ND	ND	ND	5.3	ND	ND	ND	ND	ND	ND	ND	ND
B-6-W	02/10/05	na	na	na	na	47,000	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boysen Paint Site <sup>3,5,9</sup>																							
MW-B1	09/30/91	na	na	18,000	ND	na	29,000	na	5	6	250	980	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/10/93	na	na	27,000	na	na	57,000	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/29/93	na	na	na	na	43,000	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	05/28/03	na	na	1,100,000	na	26,000	37,000	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/15/04	na	na	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	09/14/04	na	na	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	12/16/04	na	na	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	03/30/04	na	na	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
MW-B2	06/10/93	na	na	3,800	na	na	510	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/29/93	na	na	290,000	na	na	290,000	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/10/98	na	na	ND	ND	150,000	2,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/14/99	na	na	na	na	630	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	05/28/03	na	na	22,000	na	26,000	1,600	na	ND	ND	ND	ND	ND	ND	3.2	3.2	ND	ND	ND	ND	ND	ND	ND
	06/15/04	na	na	na	na	3,000	na	na	ND	ND	ND	ND	ND	ND	ND	ND	33	ND	ND	ND	ND	ND	ND
	09/14/05	na	na	na	na	410	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/16/04	na	na	na	na	480	na	na	ND	ND	ND	ND	ND	ND	1.8	1.4	ND	ND	ND	ND	ND	ND	ND
	03/30/05	na	na	na	na	14,000	na	na	ND	ND	ND	ND	ND	ND	5.8	4.1	ND	ND	ND	2.2	ND	0.57	ND
	06/27/05	na	na	na	na	4,300	na	na	ND	ND	ND	ND	ND	ND	5.9	4.7	ND	ND	ND	2.2	ND	ND	ND
MW-B3	06/10/93	na	na	1,700	na	na	1,400	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/29/93	na	na	na	na	2,400	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/10/98	na	na	ND	ND	120	830	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/14/99	na	na	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	05/28/03	na	na	ND	na	ND	ND	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/15/04	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/14/05	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/16/04	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	03/30/05	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	06/27/05	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	TCE 3.4; 1,1,1-Trichloroethene 0.5
MW-B4	06/10/93	na	na	36,000	na	na	36,000	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/29/93	na	na	na	na	1,400	na	na	ND	ND	ND	ND	ND	na	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/10/98	na	na	na	1,000	7,500	2,700	ND	ND	ND	ND	ND	na	na	ND	ND	ND	na	na	ND	ND	ND	ND
	12/14/99	na	na	na	na	5,100	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	05/28/03	na	na	7,000	na	990	14,000	na	ND	ND	ND	ND	na	na	2.8	ND	ND	na	na	1.8	ND	ND	ND
	06/15/04	na	na	na	na	1,300	na	na	ND	ND	ND	ND	na	na	ND	ND	ND	na	na	ND	ND	ND	ND
	09/14/05	na	na	na	na	400	na	na	ND	ND	ND	ND	na	na	ND	ND	ND	na	na	ND	ND	ND	ND
	12/16/04	na	na	na	na	450	na	na	ND	ND	ND	ND	na	na	4.6	ND	ND	na	na	ND	ND	ND	ND
	03/30/05	na	na	na	na	3,000	na	na	ND	ND	ND	ND	na	na	6.5	2.0	ND	na	na	1.3	ND	ND	ND
	06/27/05	na	na	na	na	2,800	na	na	ND	ND	ND	ND	na	na	7.1	3.0	ND	na	na	1.9	ND	ND	TCE 3.4
BES-1	04/21/94	na	na	18,000	na	12,000	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,1,1-Trichloroethene 0.5
	12/10/98	na	na	ND	na	78,000	ND	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	12/14/99	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
	05/28/03	na	na	na	na	19,000	na	na	ND	ND	ND	ND	ND	ND	4	ND	ND	ND	ND	20	1.5	17	trans-1,2 Dichloroethene 2.1
	06/18/03	na	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	14	ND
	06/15/04	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	09/14/05	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	12/16/04	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	03/30/05	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL
	06/27/05	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL

Sample ID	Date Sampled	TRPH µg/L	Motor Oil µg/L	TEPH µg/L	TPHd µg/L	Mineral Spirits µg/L	TPPH µg/L	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Total Xylenes µg/L	MTBE µg/L	Naphthalene µg/L	tert-Butyl Benzene µg/L	sec-Butyl Benzene µg/L	n-Butyl Benzene µg/L	1,2,4-Trimethyl benzene µg/L	Isopropyl benzene µg/L	Vinyl Chloride µg/L	1,1-Dichloro ethene µg/L	cis-1,2 Di-chloroethene µg/L	Other VOCs µg/L	
MW-LD4	09/30/91 04/06/93 09/29/93 12/10/98 12/14/99 01/13/00	na na na na na na	na na na na na na	na <b>21,000</b> na na na na	na na na 170 na na	na na <b>700</b> 130 <b>440,000</b> <b>630,000</b>	na na na 83 na na	na na na ND na na	2.0 ND ND ND na na	3.1 ND ND ND na na	9.0 ND ND ND na na	2.4 ND ND ND na na	na na na na ND ND	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 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 na na	na na na na na na	
BH-A	2004	na	na	na	na	54	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-B	2004	na	na	na	na	<b>1,700,000</b>	na	na	ND	ND	ND	ND	ND	ND	ND	9.0	ND	ND	ND	ND	ND	ND	ND	ND
BH-C	2004	na	na	na	na	<b>230</b>	na	na	ND	ND	ND	ND	ND	ND	ND	2.2	ND	ND	ND	0.51	ND	4.7	ND	ND
BH-E	2004	na	na	na	na	<b>3,600</b>	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-F	2004	na	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-G	2004	na	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	TCE 0.57
BH-H	2004	na	na	na	na	<b>1,200,000</b>	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-I	2004	na	na	na	na	<b>57,000</b>	na	na	ND	ND	ND	ND	ND	ND	ND	35	ND	ND	ND	ND	ND	ND	ND	n-Propylbenzene 20
BH-J	2004	na	na	na	na	<b>1,600,000</b>	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-K	2004	na	na	na	na	<b>1,300</b>	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-L	2004	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-M	2004	na	na	na	na	72	na	na	ND	0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-N	2004	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-O	2004	na	na	na	na	ND	na	na	1.6	26	2.4	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-P	2004	na	na	na	na	<b>680</b>	na	na	ND	0.57	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-Q	2004	na	na	na	na	<b>110,000</b>	na	na	ND	ND	ND	ND	ND	ND	6.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-R	2004	na	na	na	na	<b>880,000</b>	na	na	ND	ND	ND	ND	ND	ND	4.9	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-S	2004	na	na	na	na	<b>520</b>	na	na	ND	0.64	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-T	2004	na	na	na	na	<b>11,000</b>	na	na	0.7	12	1.2	6.8	ND	ND	2.0	ND	ND	0.93	ND	ND	ND	ND	ND	ND
BH-U	2004	na	na	na	na	<b>1,600</b>	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-W	2004	na	na	na	na	<b>870,000</b>	na	na	ND	ND	ND	ND	ND	2.6	1.0	ND	ND	4.0	ND	ND	ND	ND	ND	ND
BH-X	2004	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-Y	2004	na	na	na	na	<b>1,400,000</b>	na	na	ND	12	ND	12	ND	41	46	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-Z	2004	na	na	na	na	<b>59,000</b>	na	na	ND	11	ND	7.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-AA	2004	na	na	na	na	<b>2,000,000</b>	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-BB	2004	na	na	na	na	<b>1,100,000</b>	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-DD	Aug. 2005	na	na	na	na	<b>970</b>	na	na	ND	2.9	0.58	3.8	ND	ND	ND	ND	ND	0.78	ND	ND	ND	ND	ND	ND
BH-EE	Aug. 2005	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-FF	Aug. 2005	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-II-16-20'	Aug. 2005	na	na	na	na	160	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-II-23-27'	Aug. 2005	na	na	na	na	56	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-II-45-50'	Aug. 2005	na	na	na	na	68	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-JJ	Aug. 2005	na	na	na	na	<b>520</b>	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Sample ID	Date Sampled	TRPH µg/L	Motor Oil µg/L	TEPH µg/L	TPHd µg/L	Mineral Spirits µg/L	TPPH µg/L	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethyl Benzene µg/L	Total Xylenes µg/L	MTBE µg/L	Naphthalene µg/L	tert-Butyl Benzene µg/L	sec-Butyl Benzene µg/L	n-Butyl Benzene µg/L	1,2,4-Trimethyl benzene µg/L	Isopropyl benzene µg/L	Vinyl Chloride µg/L	1,1-Dichloro ethene µg/L	cis-1,2 Di-chloroethene µg/L	Other VOCs µg/L
BH-KK	Aug. 2005	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-LL	Aug. 2005	na	na	na	na	ND	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-MM	Aug. 2005	na	na	na	na	<b>3,500</b>	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH-NN	Aug. 2005	na	na	na	na	ND	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
B-1	05/31/06	na	na	na	ND	ND	na	<b>460</b>	ND	0.65	ND	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Acetone 47
B-2	05/30/06	na	na	na	ND	ND	na	120	ND	0.52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Acetone 20
B-4	06/07/06	na	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Celis Site <sup>1,2,6</sup>																							
LF-LFMW-1	08/07/93	11	ND	na	<b>41,000</b>	na	na	<b>100,000</b>	<b>13,000</b>	<b>9,400</b>	<b>3,100</b>	<b>14,000</b>	na	na	na	na	na	na	na	na	na	na	na
LF-LFMW-2	08/07/93	ND	ND	na	95	na	na	<b>13,000</b>	<b>2,400</b>	<b>2,900</b>	<b>500</b>	<b>2,000</b>	na	na	na	na	na	na	na	na	na	na	na
LF-LFMW-3	08/07/93	ND	ND	na	<b>780</b>	na	na	<b>11,000</b>	<b>1,500</b>	<b>5,100</b>	<b>2,900</b>	<b>5,000</b>	na	na	na	na	na	na	na	na	na	na	na
LF-LFMW-4	01/28/94	na	160	na	<b>1,400</b>	na	na	<b>18,000</b>	<b>1,000</b>	<b>1,900</b>	<b>880</b>	<b>4,700.0</b>	na	na	na	na	na	na	na	na	na	na	na
	09/26/97	na	ND	na	<b>480</b>	na	na	<b>3,200</b>	<b>44</b>	<b>6.6</b>	<b>49</b>	<b>180</b>	ND	17	na	na	na	na	na	na	na	na	na
	07/10/07	na	na	na	<b>620</b>	<b>260</b>	na	<b>450</b>	3.5	ND	11	1.8	6.2	na	na	na	na	na	na	na	na	na	na
	10/31/07	na	na	na	<b>3,400</b>	<b>450</b>	na	<b>780</b>	1.3	ND	15	1.1	5.7	na	na	na	na	na	na	na	na	na	na
	01/18/08	na	na	na	<b>1,000</b>	<b>500</b>	na	<b>970</b>	4.1	ND	17	0.8	5.0	na	na	na	na	na	na	na	na	na	na
	09/21/09	na	na	na	<b>1,600</b>	<b>320</b>	na	<b>490</b>	ND	ND	7.9	ND	2.0	na	na	na	na	na	na	na	na	na	na
WCEW-1	09/26/97	na	ND	na	<b>180,000</b>	na	na	<b>110,000</b>	<b>2,800</b>	<b>4,900</b>	<b>3,100</b>	<b>12,000</b>	ND	<b>120</b>	na	na	na	na	na	na	na	na	ND
	12/05/97	na	ND	na	95	na	na	<b>4,700</b>	<b>2,100</b>	<b>1,800</b>	<b>2,500</b>	<b>10,000</b>	340	<b>170</b>	na	na	na	na	na	na	na	na	ND
	03/13/98	na	ND	na	<b>780</b>	na	na	<b>7,700</b>	<b>2,500</b>	<b>1,300</b>	<b>1,000</b>	<b>3,400</b>	570	<b>421</b>	na	na	na	na	na	na	na	na	ND
	06/02/98	na	<b>550</b>	na	<b>780</b>	na	na	<b>3,400</b>	<b>2,100</b>	<b>460</b>	<b>910</b>	<b>2,990</b>	350	<b>1,000</b>	na	na	na	na	na	na	na	na	ND
	5/19/2004 <sup>4</sup>	na	na	na	ND	<b>600</b>	na	<b>3,700</b>	<b>90</b>	0.66	<b>48</b>	56	170	8.3	ND	8.7	ND	14	12	ND	ND	ND	1,3,5 Trimethylbenzene 5.6; p-Isopropylbenzene 1.8 n-Propylbenzene 31
SB-1-15-20	02/06/06	na	na	na	<b>310</b>	110	na	<b>220</b>	ND	ND	ND	ND	5.2	ND	ND	8.7	ND	ND	ND	ND	ND	ND	ND
URS-MW-1	07/10/07	na	na	na	<b>580</b>	<b>550</b>	na	<b>960</b>	ND	ND	ND	ND	1.7	na	na	na	na	na	na	na	na	na	na
	10/31/07	na	na	na	<b>670</b>	150	na	<b>270</b>	ND	ND	ND	ND	1.3	na	na	na	na	na	na	na	na	na	na
	01/18/08	na	na	na	<b>220</b>	79	na	150	ND	ND	ND	ND	1.1	na	na	na	na	na	na	na	na	na	na
	09/21/09	na	na	na	90	83	na	120	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na
URS-MW-2	07/10/07	na	na	na	<b>240</b>	ND	na	ND	ND	ND	ND	ND	140	ND	ND	ND	ND	ND	ND	ND	ND	ND	TBA 18
	10/31/07	na	na	na	180	ND	na	ND	ND	4.4	ND	5.1	160	na	na	na	na	na	na	na	na	na	na
	01/18/08	na	na	na	170	ND	na	ND	ND	ND	ND	ND	160	na	na	na	na	na	na	na	na	na	na
	09/21/09	na	na	na	210	ND	na	ND	ND	ND	ND	ND	49	na	na	na	na	na	na	na	na	na	na
URS-MW-3	07/10/07	na	na	na	ND	ND	na	ND	ND	ND	ND	ND	1.3	na	na	na	na	na	na	na	na	na	na
	10/31/07	na	na	na	50	ND	na	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na
	01/18/08	na	na	na	ND	ND	na	ND	ND	ND	ND	ND	ND	na	na	na	na	na	na	na	na	na	na
	09/21/09	na	na	na	ND	ND	na	ND	ND	ND	ND	ND	1.9	na	na	na	na	na	na	na	na	na	na
URS-MW-4	07/10/07	na	na	na	110	ND	na	ND	ND	ND	ND	ND	82	na	na	na	na	na	na	na	na	na	na
	10/31/07	na	na	na	170	ND	na	ND	ND	ND	ND	ND	7.2	na	na	na	na	na	na	na	na	na	na
	01/18/08	na	na	na	110	ND	na	ND	ND	ND	ND	ND	3.9	na	na	na	na	na	na	na	na	na	na
	09/21/09	na	na	na	110	ND	na	ND	ND	ND	ND	ND	56	na	na	na	na	na	na	na	na	na	na
URS-MW-5	09/21/09	na	na	na	<b>1,100</b>	99	na	150	ND	ND	ND	ND	63.0	na	na	na	na	na	na	na	na	na	na

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San Francisco Bread Site <sup>1,6,7,8</sup>																								
SMW-1	09/11/92	na	na	na	200	na	na	<b>1,400</b>	<b>470</b>	45	43	100	na	na	na	na	na	na	na	na	na	na	na	na
	12/03/92	na	na	na	na	na	na	ND	ND	ND	1.6	ND	na	na	na	na	na	na	na	na	na	na	na	na
	03/04/93	na	na	na	na	na	na	<b>700</b>	1.1	ND	ND	1.1	na	na	na	na	na	na	na	na	na	na	na	na
	06/04/93	na	na	na	na	na	na	<b>2,900</b>	<b>340</b>	58	<b>50</b>	<b>140</b>	na	na	na	na	na	na	na	na	na	na	na	na
	09/02/93	na	na	na	na	na	na	<b>1,500</b>	<b>340</b>	ND	ND	<b>140</b>	na	na	na	na	na	na	na	na	na	na	na	na
	12/01/93	na	na	na	na	na	na	<b>810</b>	<b>170</b>	23	22	39	na	na	na	na	na	na	na	na	na	na	na	na
	03/08/94	na	na	na	na	na	na	<b>5,800</b>	<b>1,700</b>	<b>430</b>	<b>230</b>	<b>490</b>	na	na	na	na	na	na	na	na	na	na	na	na
MW-3	05/19/04	na	na	na	ND	<b>420</b>	na	<b>1,300</b>	ND	ND	ND	1.1	5.8	ND	ND	ND	14	ND	ND	ND	ND	ND	1,3,5 Trimethylbenzene 12	
URS-MW-5	07/10/07	na	na	na	<b>820</b>	160	na	<b>270</b>	0.6	ND	22	ND	99	na	na	na	na	na	na	na	na	na	na	na
	10/31/07	na	na	na	<b>1,400</b>	<b>1,400</b>	na	<b>2,500</b>	3.9	ND	<b>270</b>	ND	47	na	na	na	na	na	na	na	na	na	na	na
	01/18/08	na	na	na	<b>2,000</b>	<b>540</b>	na	<b>1,000</b>	3.3	ND	<b>110</b>	ND	49	na	na	na	na	na	na	na	na	na	na	na

Concentrations in bold script exceed the 2008 San Francisco Bay Area RWQCB's Residential Environmental Screening Levels in shallow soils where groundwater is not a source of drinking water.

Notes:

- (1) Data Source: Levine-Fricke 1994, 1993
- (2) Data Source: Woodward-Clyde International-Americas 1997, 1998
- (3) Data Source: Aqua Science Engineers, Inc. 2005a,b
- (4) Data Source: Clayton Group Services 2007, 2004a,b, 2003, 2002
- (5) Data Source: Hageman-Aquiar, Inc. 1992
- (6) Data Source: URS 2006, 2007a, 2009
- (7) Data Source: The San Joaquin Company 2005
- (8) Data Source: SEACOR Science and Engineering Analysis Corporation 1992
- (9) Data Source: Environmental Resource Management 2006
- (10) ND = Not Detected above the Method Detection Limit (MDL).
- (11) na = Not Analyzed.

## TABLE 7

SJC



Table 7

RESULTS OF ANALYSES OF SOIL SAMPLES RECOVERED FROM  
FLOORS OF REMEDIAL EXCAVATIONS  
August 10 - 30, 2007

Sample ID	Date Sampled	Elevation NAVD ft.	TPHd (diesel) mg/Kg	Mineral Spirits mg/Kg	TPHg (gasoline) mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Total Xylenes mg/Kg
<i>Remedial Excavation No. 1</i>									
W275N08	08/28/07	36.62	3.0	1.7	9.7	ND	ND	ND	ND
W275N30	08/28/07	36.73	29	40	<b>510</b>	<b>0.97</b>	2.8	<b>8.5</b>	<b>51</b>
W275N55	08/30/07	36.06	32	26	<b>140</b>	ND	ND	ND	ND
W275N80	08/30/07	36.73	18	19	85	ND	ND	ND	ND
W275N105	08/28/07	36.74	54	ND	1.7	0.014	0.048	0.087	0.57
W305N08	08/28/07	36.13	ND	ND	1.9	ND	ND	ND	ND
W305N30	08/28/07	36.04	3.1	4.1	<b>130</b>	ND	2.0	1.8	9.3
W305N55	08/28/07	36.10	4.1	5.7	59	ND	ND	ND	2.6
W305N80	08/28/07	35.29	8.2	10	0.32	ND	ND	ND	ND
W305N115	08/28/07	36.47	ND	ND	ND	ND	ND	ND	ND
W335N08	08/28/07	35.69	ND	ND	ND	ND	ND	ND	ND
W335N30	08/28/07	35.66	42	57	<b>140</b>	ND	ND	ND	4.1
W335N55	08/28/07	34.96	6.5	8.4	7.7	ND	ND	ND	ND
W335N80	08/28/07	35.50	ND	ND	ND	ND	ND	ND	ND
W335N105	08/28/07	35.40	100	<b>140</b>	<b>120</b>	ND	ND	ND	ND
<i>Remedial Excavation No. 2</i>									
W0N0	08/14/07	40.81	28	6.3	3.2	ND	ND	ND	ND
W0N25	08/14/07	40.54	ND	ND	ND	ND	ND	ND	ND
W0N35	08/14/07	40.42	ND	ND	ND	ND	ND	ND	ND
W0N50	08/14/07	40.25	ND	ND	ND	ND	ND	ND	ND
W0N65	08/14/07	40.81	ND	ND	ND	ND	ND	ND	ND
W15N61	08/10/07	40.57	ND	ND	ND	ND	ND	ND	ND
W25N0	08/14/07	39.47	ND	ND	ND	ND	ND	ND	ND
W25N25	08/14/07	39.94	ND	ND	ND	ND	ND	ND	ND
W25N50	08/17/07	40.71	ND	ND	ND	ND	ND	ND	ND
W25N75	08/17/07	41.05	ND	ND	ND	ND	ND	ND	ND
W50N0	08/22/07	39.95	3.0	ND	ND	ND	ND	ND	ND
W50N50	08/17/07	40.41	ND	ND	ND	ND	ND	ND	ND
W50N75	08/17/07	40.44	ND	ND	ND	ND	ND	ND	ND
W75N0	08/22/07	40.61	19	24	<b>350</b>	ND	3.9	<b>8.1</b>	<b>21</b>
W75N25	08/22/07	40.22	26	29	<b>280</b>	ND	3.9	<b>2.9</b>	9.2
W75N50	08/17/07	40.19	ND	ND	0.90	0.0077	ND	ND	ND
W75N75	08/17/07	40.92	ND	ND	ND	ND	ND	ND	ND
W100N0	08/23/07	40.38	13	14	<b>180</b>	ND	1.6	<b>2.9</b>	<b>16</b>
W100N25	08/23/07	40.72	18	15	<b>150</b>	ND	ND	2.3	ND
W100N50	08/17/07	40.23	ND	ND	0.70	0.0094	ND	0.0051	ND

Oak Walk Redevelopment Project, Emeryville, CA

Sample ID	Date Sampled	Elevation NAVD ft.	TPHd (diesel) mg/Kg	Mineral Spirits mg/Kg	TPHg (gasoline) mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Total Xylenes mg/Kg
W100N75	08/17/07	40.21	ND	ND	ND	ND	ND	ND	ND
W125N0	08/23/07	40.54	7.1	9.2	72	ND	ND	1.2	3.9
W125N25	08/27/07	40.36	32	31	100	ND	ND	ND	ND
W125N50	08/27/07	39.72	9.3	7.6	<b>150</b>	ND	ND	ND	ND
W125N75	08/17/07	40.53	ND	ND	ND	ND	ND	ND	ND
W150N0	08/23/07	39.65	10	9.9	96	ND	ND	1.1	3.2
W150N25	08/23/07	40.09	18	21	<b>290</b>	ND	ND	<b>6.0</b>	8.2
W150N50	08/17/07	39.32	ND	ND	ND	ND	ND	ND	ND
W175N0	08/23/07	39.93	2.6	1.6	2.9	ND	ND	ND	ND
W175N25	08/23/07	40.39	2.8	2.4	9.0	0.020	ND	0.11	0.0099
W175N50	08/27/07	39.89	ND	ND	ND	ND	ND	ND	2.4
W175N75	08/27/07	39.13	ND	ND	ND	ND	ND	ND	ND
W200N0	08/27/07	40.30	ND	ND	0.47	ND	ND	ND	ND
W200N50	08/27/07	40.06	5.6	5.2	93	ND	ND	1.6	ND
W200N75	08/27/07	39.92	<b>940</b>	<b>1300</b>	<b>5100</b>	ND	ND	<b>50</b>	<b>270</b>
W213N25	08/27/07	40.76	6.8	5.4	6.5	ND	ND	0.055	ND

**Notes:**

- (1) Concentrations in **bold** script exceed the 2008 San Francisco Bay Area RWQCB's Environmental Screening Levels for residential property in shallow soils where groundwater is not a source of drinking water.
- (2) ND = Not Detected above the Method Detection Limit (MDL).

## TABLE 8

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TABLE 8

**RWQCB TIER 1 CONCENTRATION LIMITS (ESLs)  
FOR CHEMICALS OF CONCERN IN SHALLOW SOIL, GROUNDWATER AND SOIL GAS  
AT SITES WHERE SGROUNDWATER IS NOT A SOURCE OF DRINKING WATER**  
**Shallow = <3m BGS for soil; <1.5m BGS for soil gas.**

Chemical of Concern	Limiting Concentrations to Protect Human Health				
	Soil		Groundwater	Soil Gas for Vapor Intrusion	
	Residential mg/Kg	Commercial mg/Kg	Resid. or Comm. µg/L	Residential µg/m <sup>3</sup>	Commercial µg/m <sup>3</sup>
Acetone	0.50	0.50	1,500	666,000	1,800,000
Aroclor <sup>®</sup> 1260 (PCBs)	0.22	0.74	0.014	n/a	n/a
Antimony	6.3	40	30	n/a	n/a
Arsenic	0.39	1.6	36	n/a	n/a
Barium	750	1,500	1,000	n/a	n/a
Benzene	0.12	0.27	46	84	280
Beryllium	4.0	8.0	0.53	n/a	n/a
2-Butatone (Metyl Ethyl Ketone)	13	13	14,000	1,000,000	2,900,000
n-Butylbenzene (1-Phenylbutane)	ne	ne	ne	ne	ne
sec-Butylbenzene (Butyl Benzene)	ne	ne	ne	ne	ne
tert-Butylbenzene	ne	ne	ne	ne	ne
Cadmium	1.7	7.4	0.25	n/a	n/a
Chromium III	750	750	180	n/a	n/a
Chromium VI	8.0	8.0	11	n/a	n/a
Cobalt	40	80	3.0	n/a	n/a
Copper	230	230	3.1	n/a	n/a
Dibromoethane (EDB)	ne	ne	ne	ne	ne
Ethyl benzene	2.3	4.7	43	980	3,300
Lead	200	750	2.5	n/a	n/a
Mercury	1.3	10	0.025	n/a	n/a
2-Methylnaphthalene	0.25	0.25	2.1	ne	ne
4-Methylphenol	ne	ne	ne	ne	ne
Methyl Teritary Butyl Ether	8.4	8.4	1,800	9,400	31,000
Methylene Chloride	7.2	17	2,200	5,200	17,000

Chemical of Concern	Limiting Concentrations to Protect Human Health				
	Soil		Groundwater	Soil Gas for Vapor Intrusion	
	Residential mg/Kg	Commercial mg/Kg	Resid. or Comm. µg/L	Residential µg/m <sup>3</sup>	Commercial µg/m <sup>3</sup>
Molybdenum	40	40	240	n/a	n/a
Naphthalene	1.3	2.8	24	72	240
Nickel	150	150	8.2	n/a	n/a
Isopropylbenzene (Cumene)	ne	ne	ne	ne	ne
p-Isopropylbenzene	ne	ne	ne	ne	ne
p-Isopropyltoluene (p-Cymene)	ne	ne	ne	ne	ne
n-Propylbenzene (Isocumene)	ne	ne	ne	ne	ne
Selenium	10	10	5.0	n/a	n/a
Silver	20	40	0.19	n/a	n/a
Tetrachlorethene	0.47	0.90	120	410	4100
Thallium	1.3	16	4.0	n/a	n/a
Toluene	9.3	9.3	130	63,000	180,000
TPHd, TPHms (Diesel and Mineral Spirits)	100	180	210	10,000	29,000
TPHg (Gasoline)	100	180	210	10,000	29,000
Trichloroethene	1.9	4.1	360	1,200	4,100
1,2,4 Trimethylbenzene	ne	ne	ne	ne	ne
1,3,5 Trimethylbenzene	ne	ne	ne	ne	ne
Vanadium	16	200	19	n/a	n/a
Xylene Isomers (Total)	11.0	11.0	100	21,000	58,000
Zinc	600	600	81	n/a	n/a

**Notes:**

n/a = not applicable to soil gas

ne = not established in the RWQCB ESL guidance document (California Regional Water Quality Control Board San Francisco Bay Region (2008), *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. California Regional Water Quality Control Board San Francisco Bay Region INTERIM FINAL. November 2007 (Revised May 2008).

## TABLE 9

TABLE 9

**RWQCB TIER 1 CONCENTRATION LIMITS (ESLs)  
FOR CHEMICALS OF CONCERN IN DEEP SOIL, GROUNDWATER AND SOIL GAS  
AT SITES WHERE SGROUNDWATER IS NOT A SOURCE OF DRINKING WATER**  
**Deep = >3m BGS for soil; >1.5m BGS for soil gas.**

Chemical of Concern	Limiting Concentrations to Protect Human Health				
	Soil		Groundwater	Soil Gas for Vapor Intrusion	
	Residential mg/Kg	Commercial mg/Kg	Resid. or Comm. µg/L	Residential µg/m <sup>3</sup>	Commercial µg/m <sup>3</sup>
Acetone	0.50	0.50	1,500	666,000	1,800,000
Aroclor® 1260 (PCBs)	6.3	6.3	0.014	n/a	n/a
Antimony	310	310	30	n/a	n/a
Arsenic	15	15	36	n/a	n/a
Barium	2,500	2,600	1,000	n/a	n/a
Benzene	2.0	2.0	46	84	280
Beryllium	98	98	0.53	n/a	n/a
2-Butatone (Metyl Ethyl Ketone)	13	13	14,000	1,000,000	2,900,000
n-Butylbenzene (1-Phenylbutane)	ne	ne	ne	ne	ne
sec-Butylbenzene (Butyl Benzene)	ne	ne	ne	ne	ne
tert-Butylbenzene	ne	ne	ne	ne	ne
Cadmium	39	39	0.25	n/a	n/a
Chromium III	2,500	5,000	180	n/a	n/a
Chromium VI	0.53	0.53	11	n/a	n/a
Cobalt	94	94	3.0	n/a	n/a
Copper	2,500	5,000	3.1	n/a	n/a
Dibromoethane (EDB)	ne	ne	ne	ne	ne
Ethyl benzene	4.7	4.7	43	980	3,300
Lead	750	750	2.5	n/a	n/a
Mercury	58	58	0.025	n/a	n/a
2-Methylnaphthalene	0.25	0.25	2.1	ne	ne
4-Methylphenol	ne	ne	ne	ne	ne
Methyl Teritary Butyl Ether	8.4	8.4	1,800	9,400	31,000
Methylene Chloride	34	34	2,200	5,200	17,000

Deep = &gt;3m BGS for soil; &gt;1.5m BGS for soil gas.

Chemical of Concern	Limiting Concentrations to Protect Human Health				
	Soil		Groundwater	Soil Gas for Vapor Intrusion	
	Residential mg/Kg	Commercial mg/Kg	Resid. or Comm. µg/L	Residential µg/m <sup>3</sup>	Commercial µg/m <sup>3</sup>
Molybdenum	2,500	3,900	240	n/a	n/a
Naphthalene	4.8	4.8	24	72	240
Nickel	260	260	8.2	n/a	n/a
Isopropylbenzene (Cumene)	ne	ne	ne	ne	ne
p-Isopropylbenzene	ne	ne	ne	ne	ne
p-Isopropyltoluene (p-Cymene)	ne	ne	ne	ne	ne
n-Propylbenzene (Isocumene)	ne	ne	ne	ne	ne
Selenium	2,500	3,900	5.0	n/a	n/a
Silver	2,500	3,900	0.19	n/a	n/a
Tetrachlorethene	17	17	120	410	4100
Thallium	62	62	4.0	n/a	n/a
Toluene	9.3	9.3	130	63,000	180,000
TPHd, TPHms (Diesel and Mineral Spirits)	180	180	210	10,000	29,000
TPHg (Gasoline)	180	180	210	10,000	29,000
Trichloroethene	33	33	360	1,200	4,100
1,2,4 Trimethylbenzene	ne	ne	ne	ne	ne
1,3,5 Trimethylbenzene	ne	ne	ne	ne	ne
Vanadium	770	770	19	n/a	n/a
Xylene Isomers (Total)	11	11	100	21,000	58,000
Zinc	2,500	5,000	81	n/a	n/a

**Notes:**

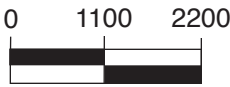
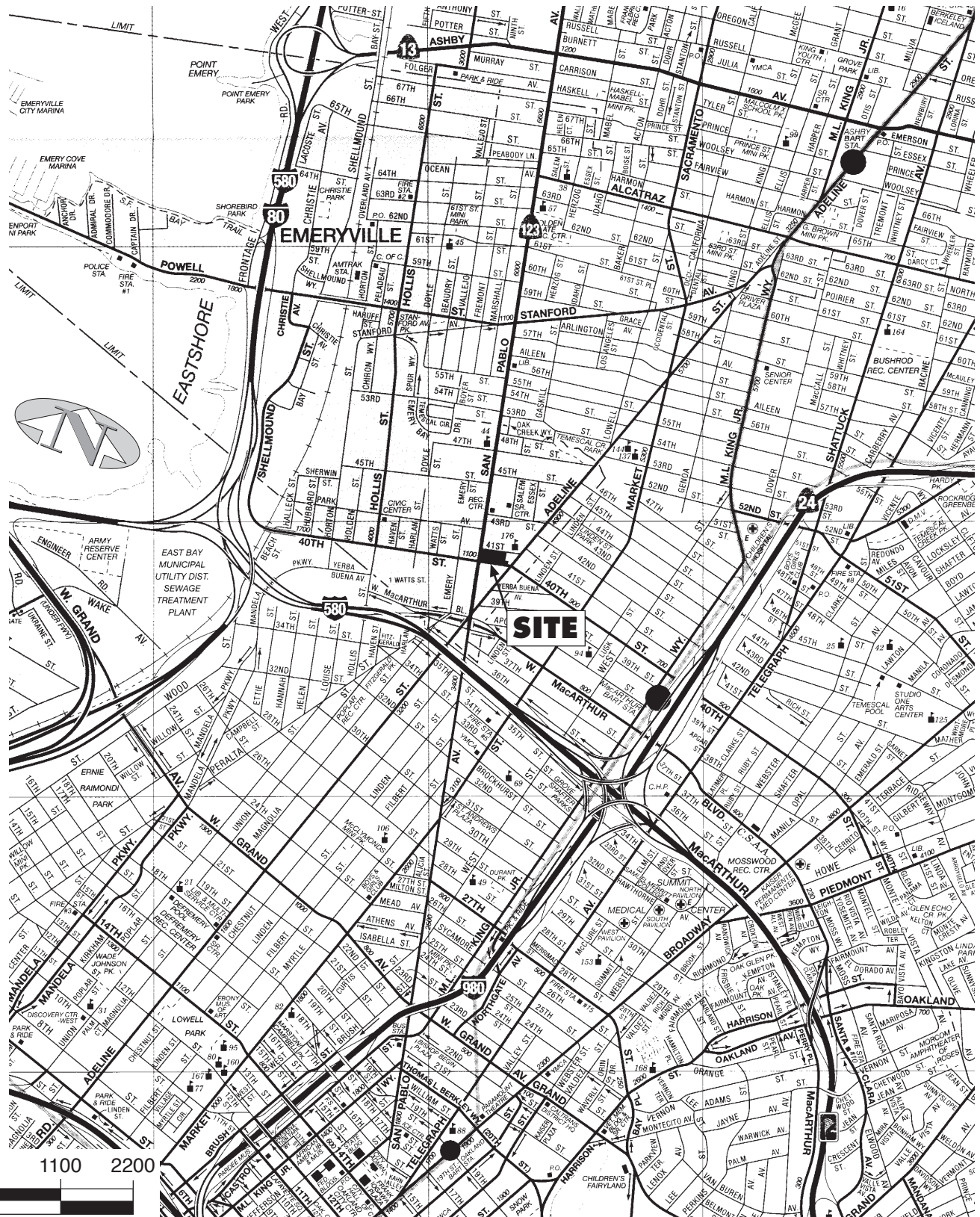
n/a = not applicable to soil gas

ne = not established in the RWQCB ESL guidance document (California Regional Water Quality Control Board San Francisco Bay Region (2008), *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*. California Regional Water Quality Control Board San Francisco Bay Region INTERIM FINAL. November 2007 (Revised May 2008).



## FIGURES

SJC



SCALE IN FEET

Basemap: AAA; Oakland-Berkeley-Alameda (12/02)

**SITE LOCATION**  
 Oak Walk Site  
 Emeryville, California

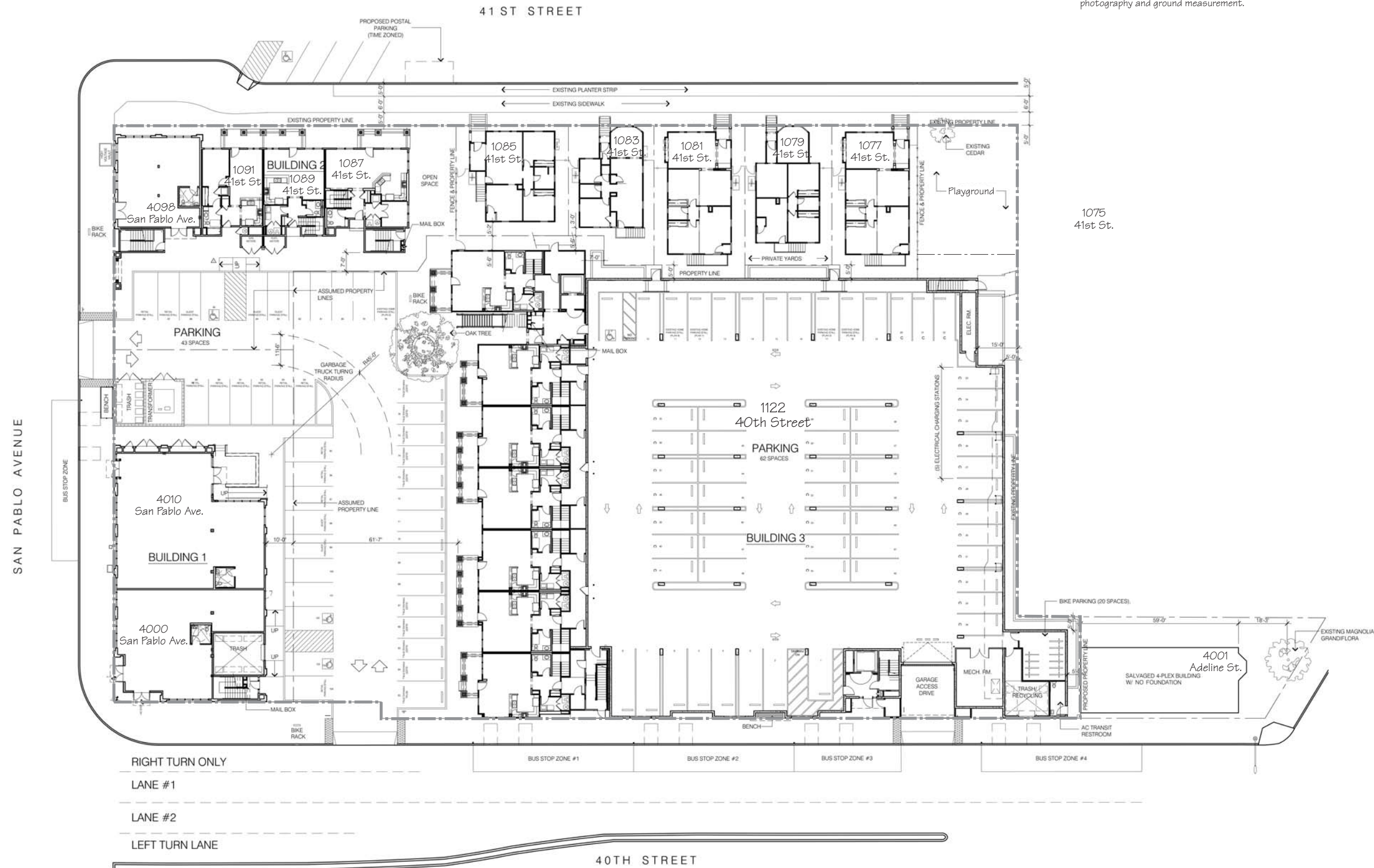
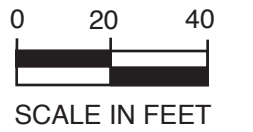
FIG 1

**The San Joaquin Company Inc.**

Project Number: 0004.0812

Drawn by: GNM Date: 10/18/09

**Base Map:**  
 This base map was prepared from various resources, including information provided by Hunt Hale Jones Architects (Project # 429001.00, Revision Date 12.03.08,) aerial photography and ground measurement.



**SITE PLAN**  
 Oak Walk Site  
 Emeryville, California

FIG 2

**The San Joaquin Company Inc.**

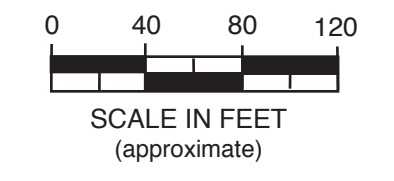
Project Number: 0004.0812

Drawn by: GNM | Date: 10/18/09

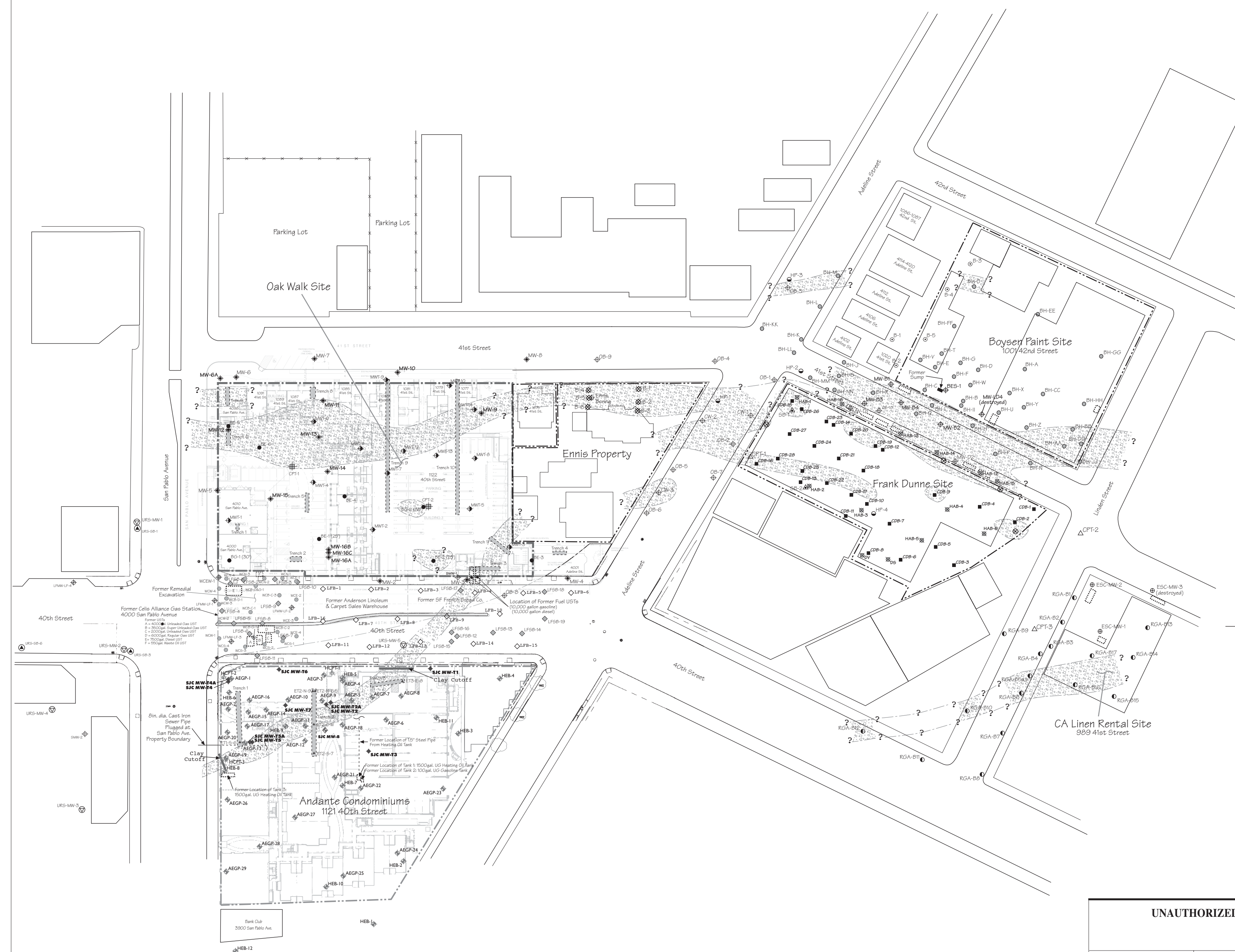


**Base Map:**  
This base map was prepared from various resources, including information provided by:

- Hunt Hale Jones Architects (Project # 423001.00, Revision Date 12.03.08.)
- Say Area Land Surveying - ALTA / ACSM Land Title Survey; Portion of Lots 3, 4, 5 & 6 of the H.C. Dohr's Homestead (Nov. 2003)
- Sandis Humber Jones - ALTA / ACSM Land Title Survey; San Pablo Ave. & 40th Street Extension Drawing No. 600104.ALTA (7/25/01)
- Clayton Group Services - Monitoring Well Locations Former Dunner Paints 1007 41st St., Oakland, Figure 2, Project No. 70-03365.04 (12/05/03)
- Clayton Group Services - Historical Subject Property Plan 1007 41st St. & 4050 Adeline St., Oakland, Figure 3, Project No. 70-03365.00 (09/06/02)
- Aerial Photography and Ground Measurement



**Note:**  
Except on Andante and Frank Dunn sites, location and continuity of paleo streambed deposits are tentative. Continuity of paleo streambed channels as shown on Boyson Paint Site, 41st Street, Ennis Property, 40th Street, California Linen Rental, and Adeline Street are assumed based on a preponderance of available boring log, hydrostratigraphic and geochemical data.



**EXPLANATION**

● MW-1	SJC Monitoring Well (Oak Walk)	● WDW-1	Woodward-Clyde Soil Sample
● MWT-1	SJC Temporary Monitoring Well (Oak Walk)	◆ LFSB-14	Levine • Fricke Soil Boring
● BE-1	SJC Environmental Boring (Oak Walk)	◆ LFB-1	Levine • Fricke Soil Boring
● BG-1	SJC Geotech Boring (Oak Walk)	◆ FAW-LF-2	Levine • Fricke Monitoring Well
■ CPT-1	Cone Penetrometer Test Location (Oak Walk)	◆ HEB-2	Harza Exploratory Boring
■ Trench	Exploratory Trench	◆ SEMW-1	SECOR Monitoring Well
■ UG	Underground Storage Tank (removed)	◆ AEP-6	APEX Envirotech, Inc. Boring
■ WCEW-1	Woodward-Clyde Extraction Well	◆ SJC MW-T1	SJC Temporary Monitoring Well (SNK Andante)
◆ OB-6	Clayton Monitoring Well (CW) & Temporary Monitoring Well (OB)	■ Paleo	Paleo Streambed, Gravelly Areas
◆ B-2	Clayton Boring (Ennis)	▲ ETI-S-6	Trench Soil Sample Location
◆ CDB-10	Clayton Boring (Dunne)	◆ MW-D1	Dunne Paints Monitoring Well
◆ B-2	ERM Boring (6/06)	◆ HP-2	ASE Boring
◆ MW-B1	Kozel Property Monitoring Well	◆ BH-S	ASE Temporary Well
◆ URS-MW-1	URS Geoprobe Soil Boring	◆ ESC-MW-1	Environmental Strategies Corp Monitoring Well
◆ URS-MW-3	URS Monitoring Well	◆ HEB-4	Hageman-Aguilar, Inc. Soil Boring
◆ RGA-B17	RGA Environmental Boring	◆ CPT-2	Cone Penetrometer Test (SCI)
◆ Extraction Well	Extraction Well	◆ SB-2	Soil Boring (SCI)

**UNAUTHORIZED RELEASE SITES IN NEIGHBORHOOD OF SUBJECT PROPERTY**

Oak Walk Site  
Emeryville, California

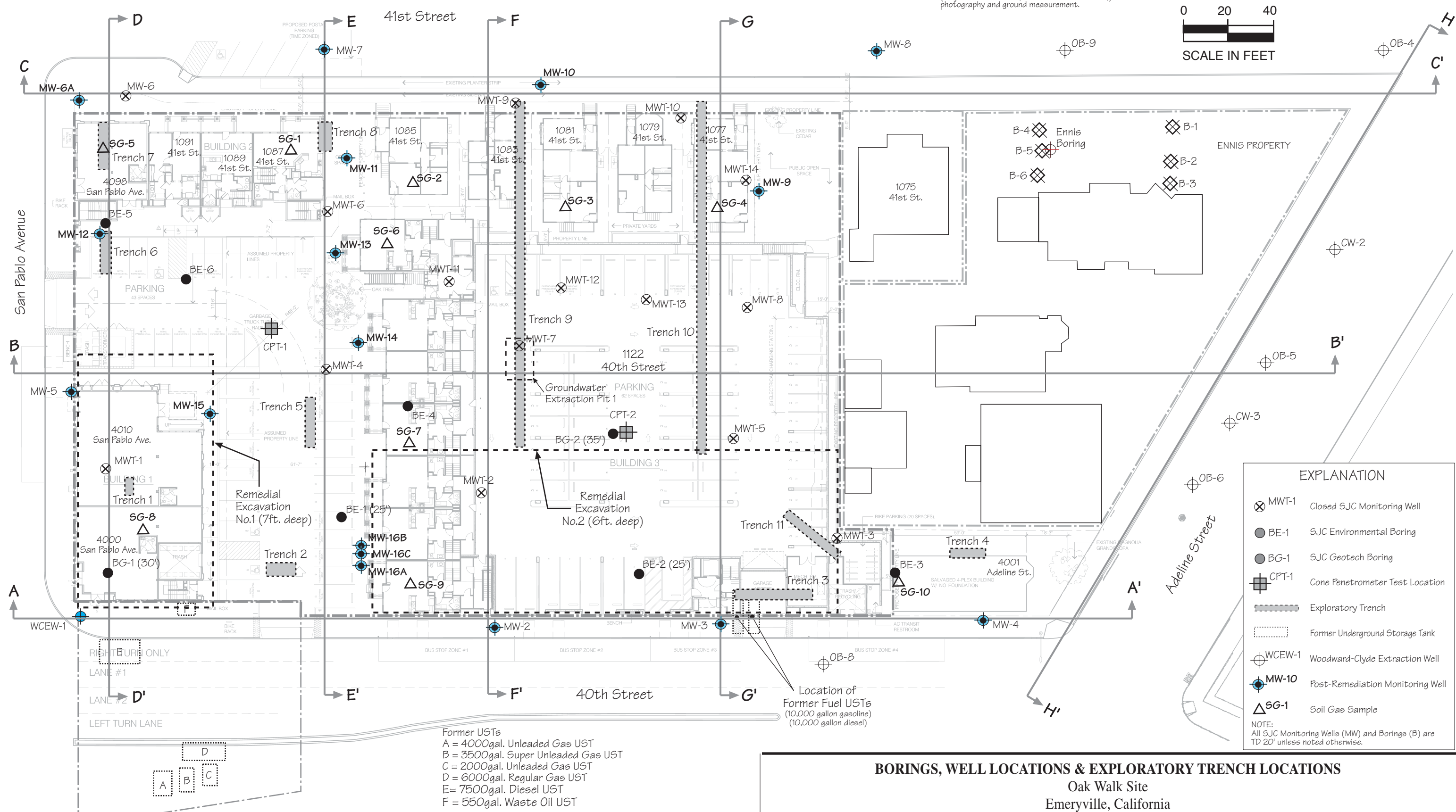
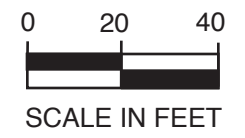
FIG 3

**The San Joaquin Company Inc.**

Project Number: 0004.0812  
Drawn by: GNM Date: 10/18/09



**Base Map:**  
 This base map was prepared from various resources, including information provided by Hunt Hale Jones Architects (Project # 429001.00, Revision Date 12.03.08,) aerial photography and ground measurement.



EXPLANATION	
	MWT-1 Closed SJC Monitoring Well
	BE-1 SJC Environmental Boring
	BG-1 SJC Geotech Boring
	CPT-1 Cone Penetrometer Test Location
	Exploratory Trench
	Former Underground Storage Tank
	WCEW-1 Woodward-Clyde Extraction Well
	MW-10 Post-Remediation Monitoring Well
	SG-1 Soil Gas Sample

NOTE:  
 All SJC Monitoring Wells (MW) and Borings (B) are TD 20' unless noted otherwise.

Former USTs  
 A = 4000gal. Unleaded Gas UST  
 B = 3500gal. Super Unleaded Gas UST  
 C = 2000gal. Unleaded Gas UST  
 D = 6000gal. Regular Gas UST  
 E = 7500gal. Diesel UST  
 F = 550gal. Waste Oil UST

**BORINGS, WELL LOCATIONS & EXPLORATORY TRENCH LOCATIONS**

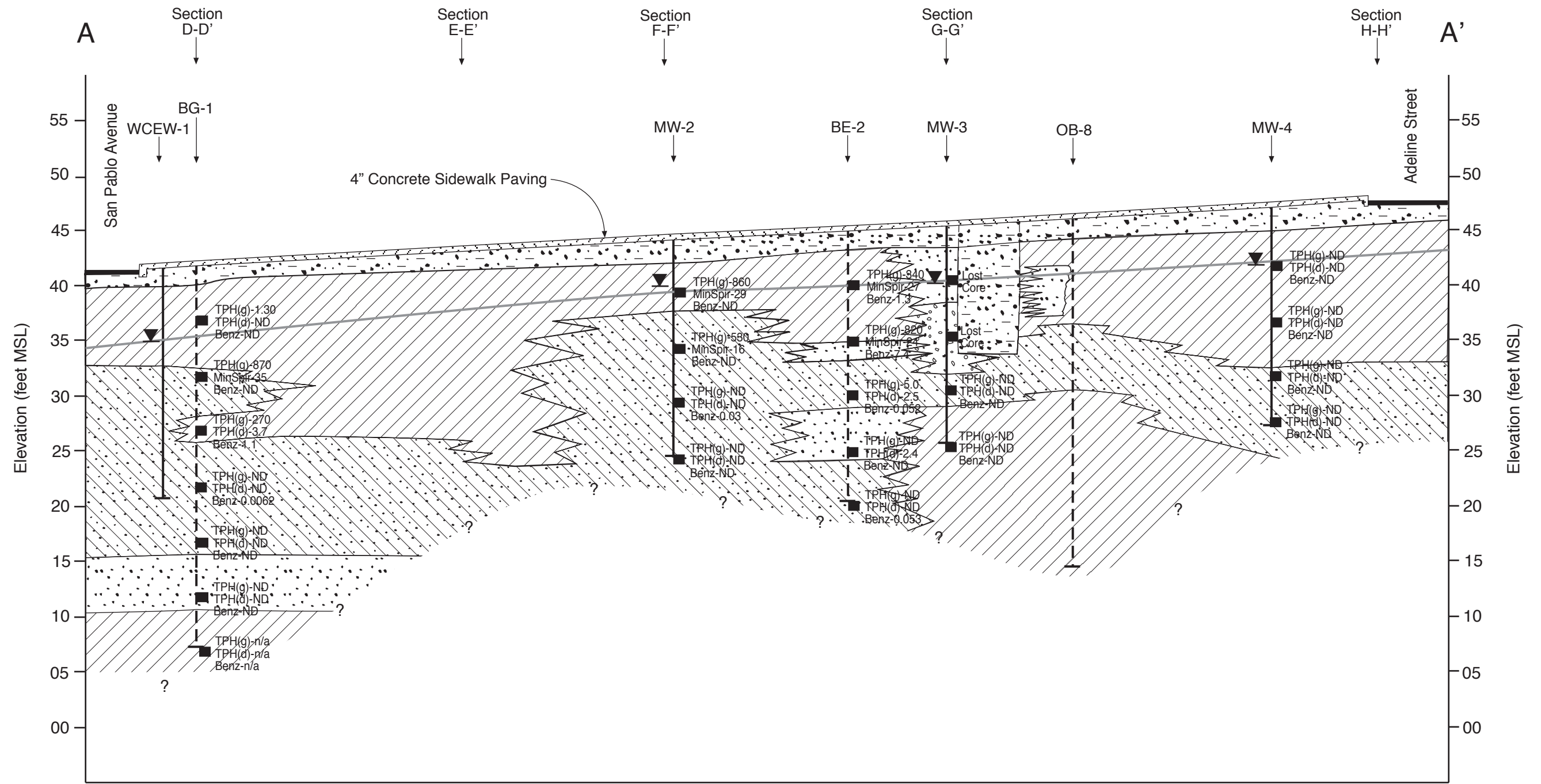
Oak Walk Site  
 Emeryville, California

FIG 4

**The San Joaquin Company Inc.**

Project Number: 0004.0812  
 Drawn by: GNM Date: 10/18/09





**HYDROSTRATIGRAPHIC SECTION A-A'**

Oak Walk Site  
Emeryville, California

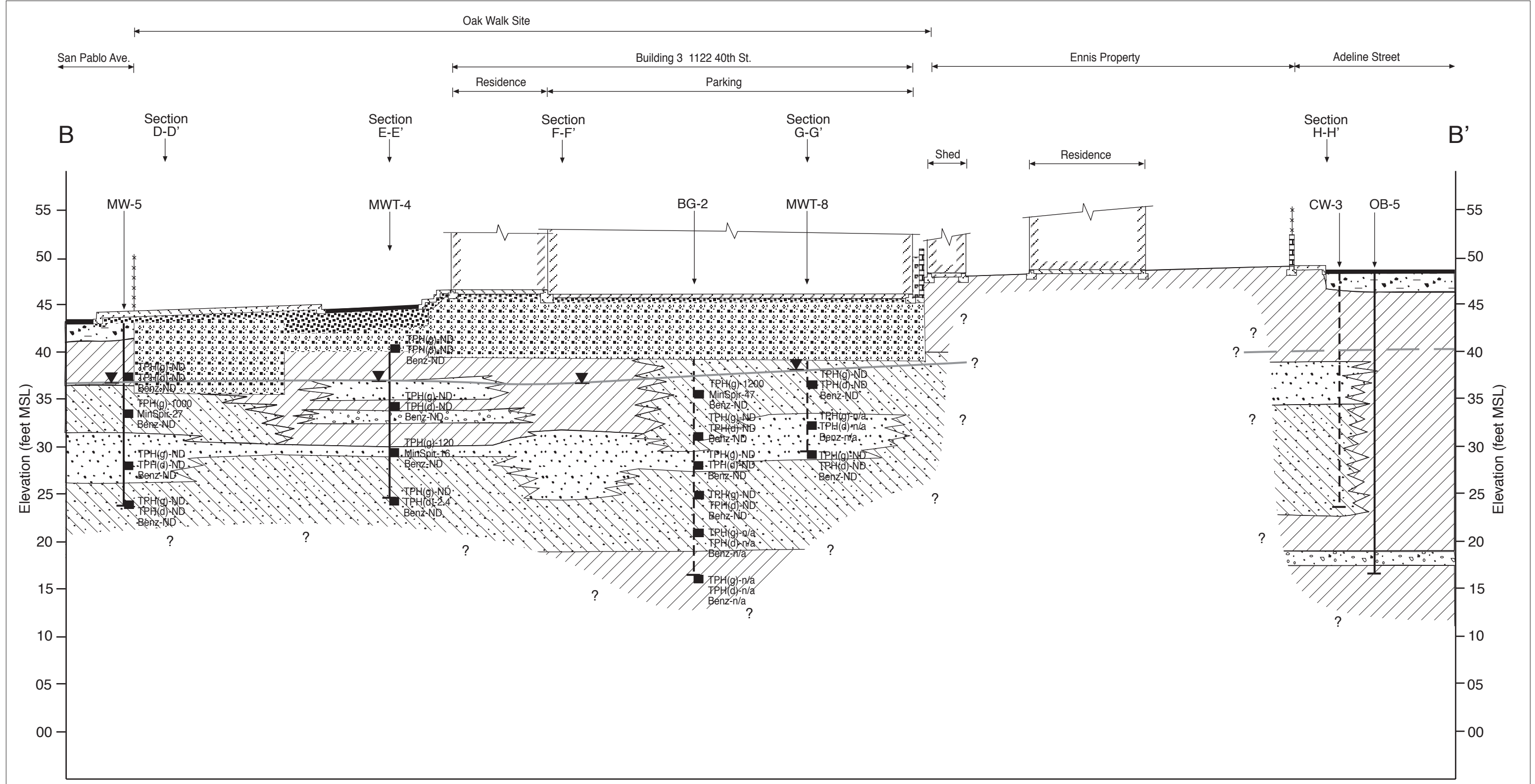
FIG 5

**The San Joaquin Company Inc.**










Project Number: 0004.0812

Drawn by: GNM

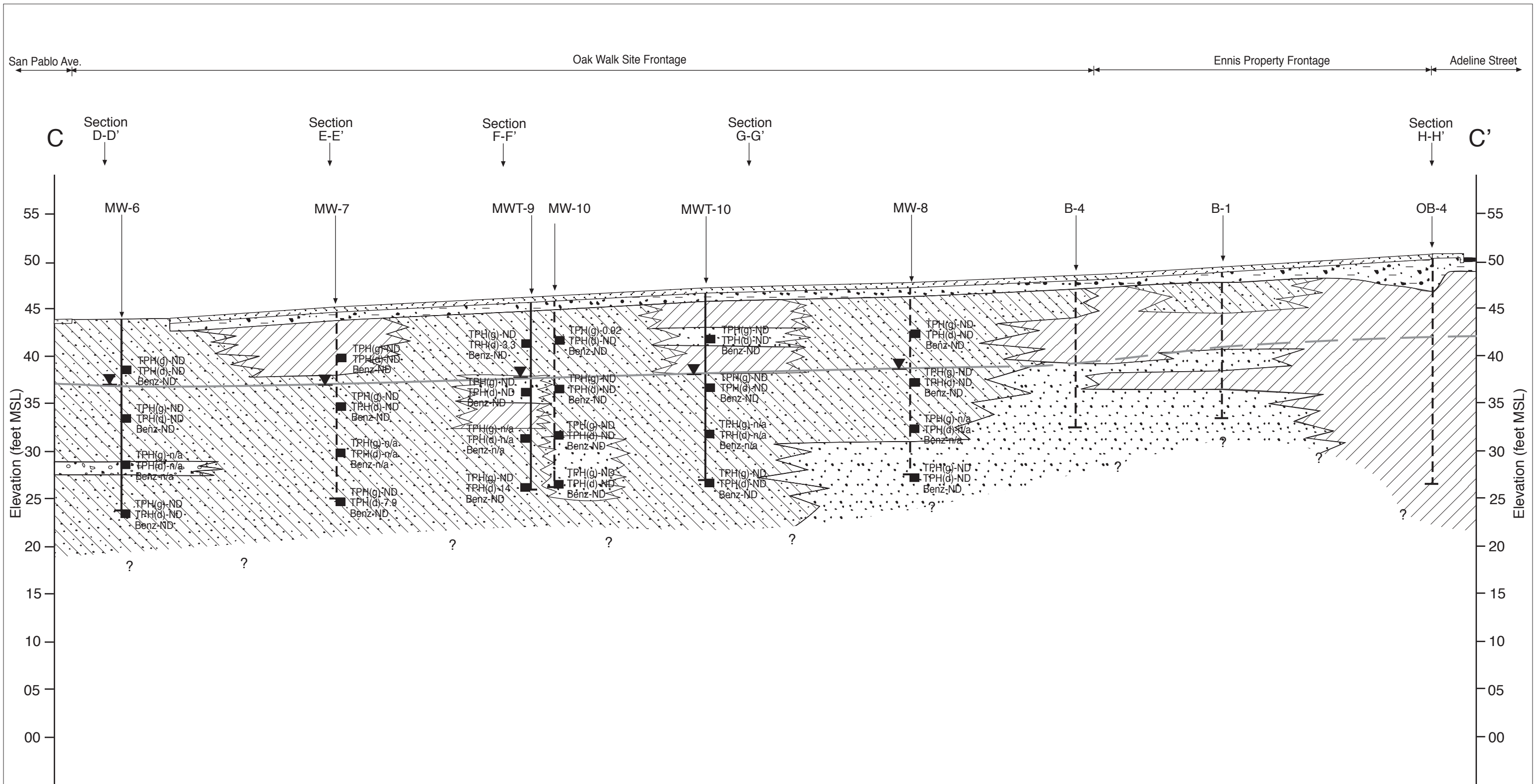
Date: 11/30/09



**EXPLANATION**

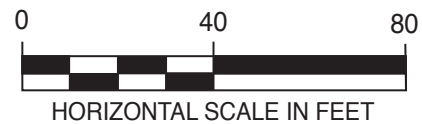
- |   |  |  |
|---|--|--|
|  Clays and Silty Clays                               |  Gravel                               |  Engineered Fill  |
|  Sandy Clay and Clays with some Silt, Sand or Gravel |  Gravelly Fill                        |  A/B/ Gravel Fill |
|  Silts, Clayey Gravel and Sands                      |  Water Table (11/08/04)               |  |
|   |  Soil Sample Analysis Results (mg/kg) |  |
- Gasoline-340  
MineralSpirits/TPH(d)-27  
Benzene-ND
- 0 40 80  
HORIZONTAL SCALE IN FEET

<b>HYDROSTRATIGRAPHIC SECTION B-B'</b> Oak Walk Site Emeryville, California		
FIG 6	<b>The San Joaquin Company Inc.</b>	Project Number: 0004.0812
		Drawn by: GNM      Date: 11/30/09



**EXPLANATION**

- |  |  |  |                                      |  |                  |
|--|--|--|--------------------------------------|--|------------------|
|  | Clays and Silty Clays                                  |  | Gravel                               |  | Engineered Fill  |
|  | Sandy Clay and Clays with some Silt, Sand or Gravel    |  | Gravelly Fill                        |  | A/B/ Gravel Fill |
|  | Silts, Clayey Gravel and Sands                         |  | Water Table (11/08/04)               |  |                  |
|  | Gasoline-340<br>MineralSpirits/TPH(d)-27<br>Benzene-ND |  | Soil Sample Analysis Results (mg/kg) |  |                  |



**HYDROSTRATIGRAPHIC SECTION C-C'**

Oak Walk Site  
Emeryville, California

FIG 7

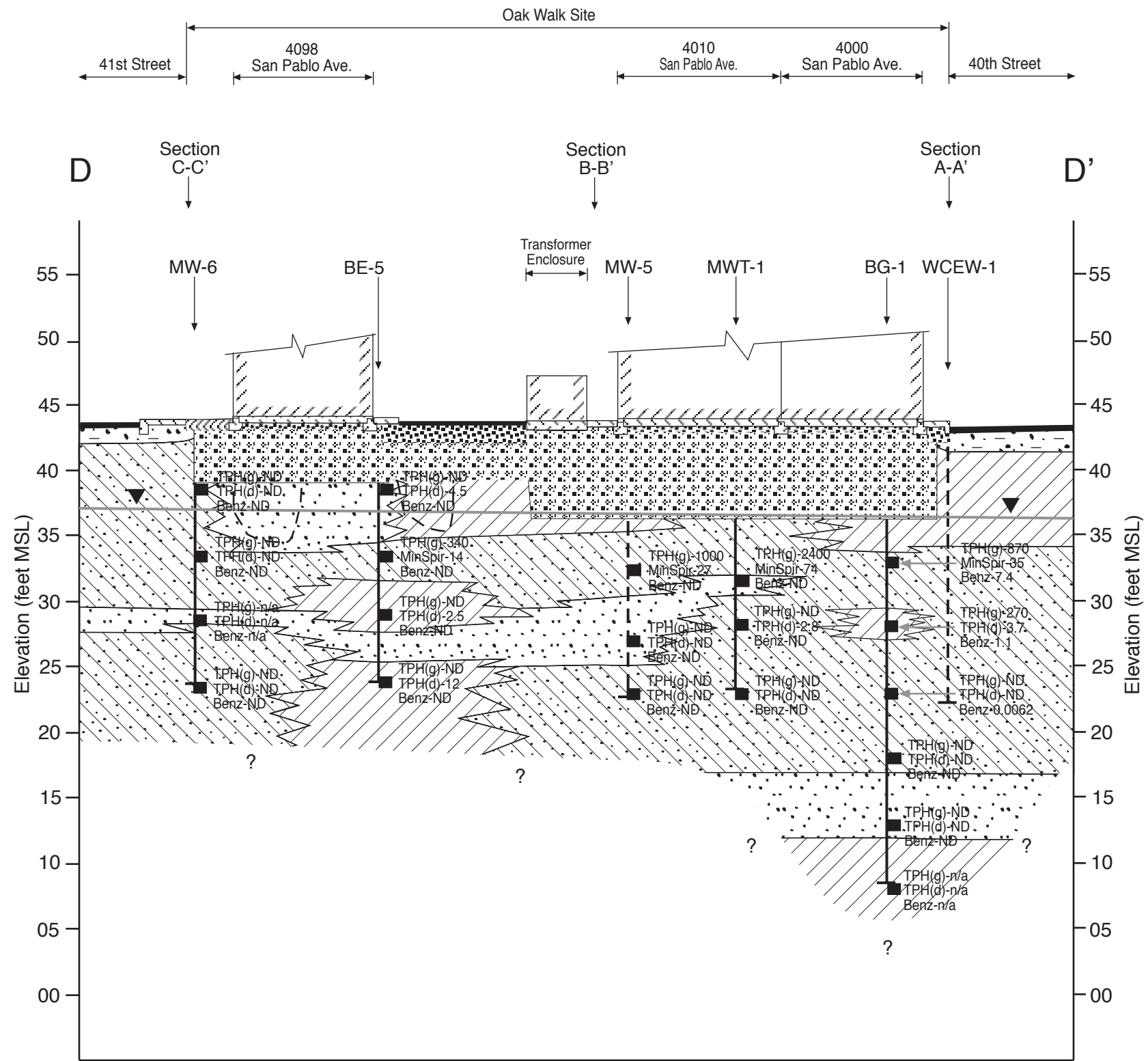
**The San Joaquin Company Inc.**

Project Number: 0004.0812

Drawn by: GNM

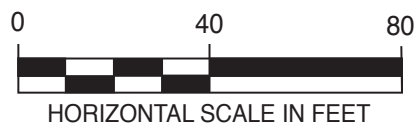
Date: 12/02/09





**EXPLANATION**

- |  |  |  |                                      |  |                  |
|--|--|--|--------------------------------------|--|------------------|
|  | Clays and Silty Clays                                  |  | Gravel                               |  | Engineered Fill  |
|  | Sandy Clay and Clays with some Silt, Sand or Gravel    |  | Gravelly Fill                        |  | A/B/ Gravel Fill |
|  | Silts, Clayey Gravel and Sands                         |  | Water Table (11/08/04)               |  |                  |
|  | Gasoline-340<br>MineralSpirits/TPH(d)-27<br>Benzene-ND |  | Soil Sample Analysis Results (mg/kg) |  |                  |



**HYDROSTRATIGRAPHIC SECTION D-D'**

Oak Walk Site  
Emeryville, California

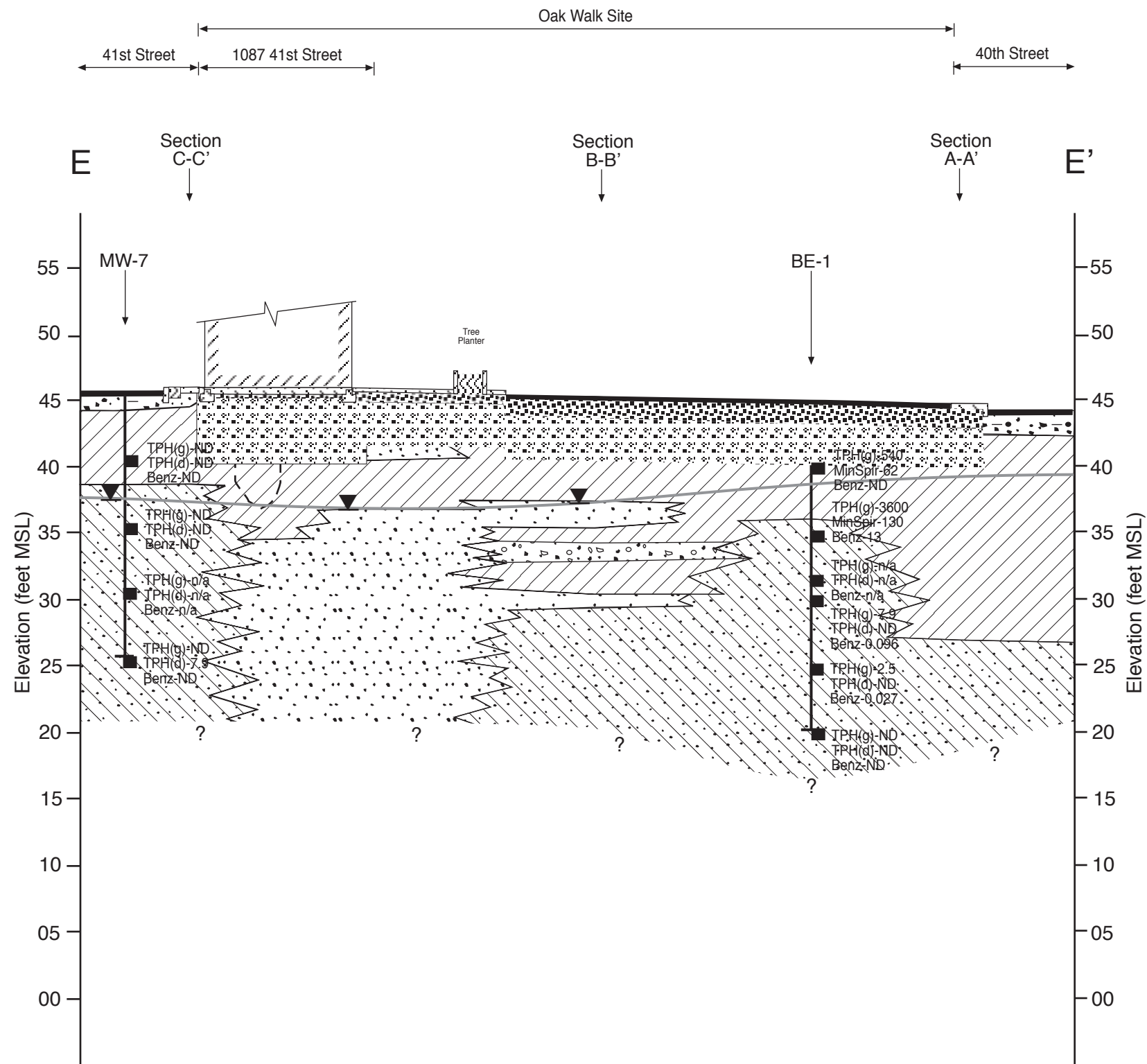
FIG 8

**The San Joaquin Company Inc.**

Project Number: 0004.0812

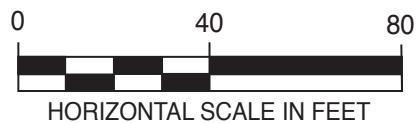
Drawn by: GNM

Date: 12/02/09



**EXPLANATION**

- |  |   |  |                                      |  |                  |
|--|---|--|--------------------------------------|--|------------------|
|  | Clays and Silty Clays                                   |  | Gravel                               |  | Engineered Fill  |
|  | Sandy Clay and Clays with some Silt, Sand or Gravel     |  | Gravelly Fill                        |  | A/B/ Gravel Fill |
|  | Silts, Clayey Gravel and Sands                          |  | Water Table (11/08/04)               |  |                  |
|  | Gasoline-340<br>Mineral Spirits/TPH(d)-27<br>Benzene-ND |  | Soil Sample Analysis Results (mg/kg) |  |                  |



**HYDROSTRATIGRAPHIC SECTION E-E'**

Oak Walk Site  
Emeryville, California

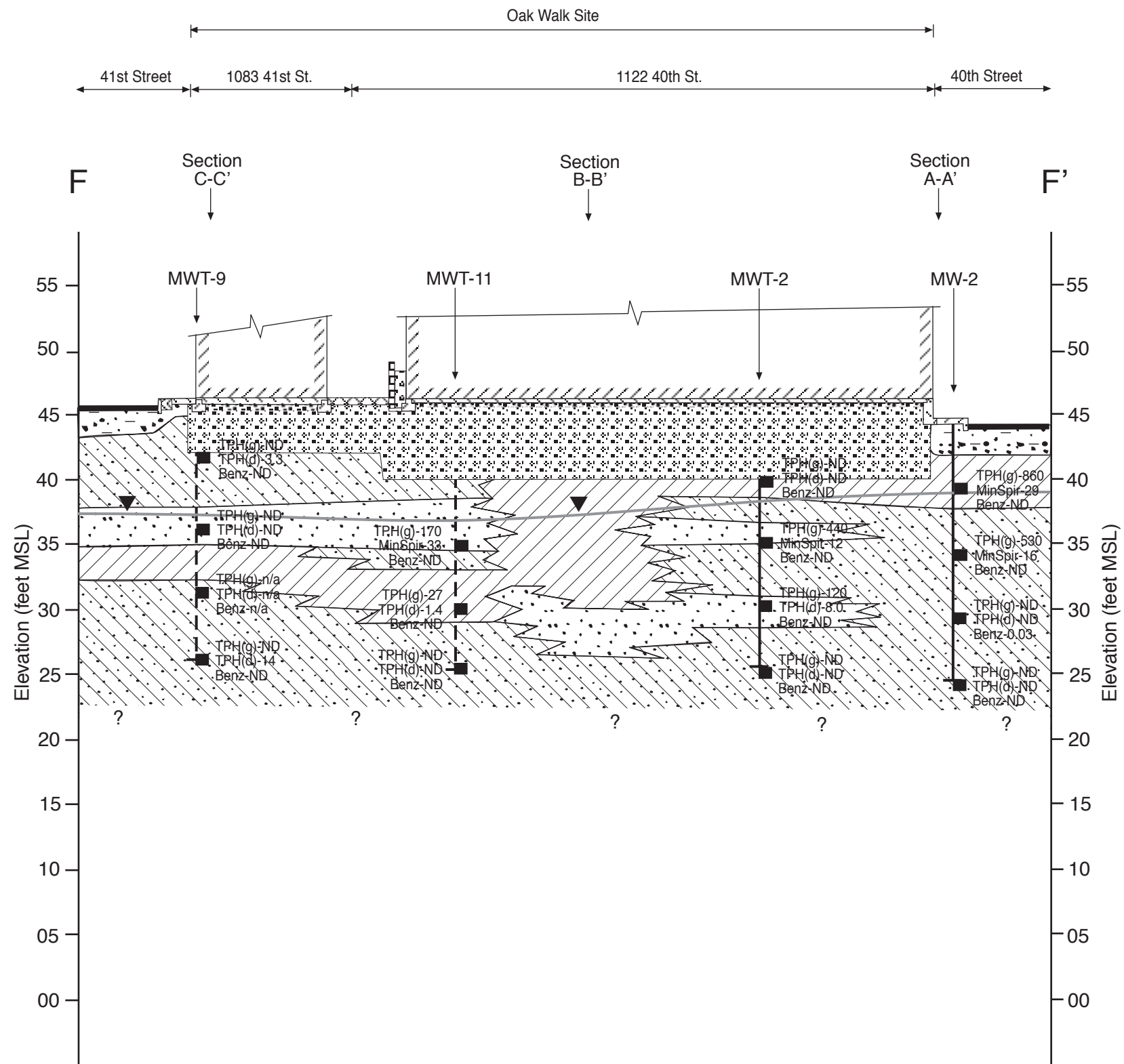
FIG 9

**The San Joaquin Company Inc.**

Project Number: 0004.0812

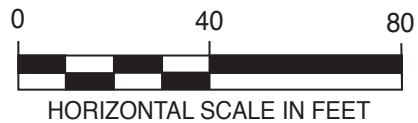
Drawn by: GNM

Date: 12/02/09



**EXPLANATION**

- |  |  |  |                                      |  |                  |
|--|--|--|--------------------------------------|--|------------------|
|  | Clays and Silty Clays                                  |  | Gravel                               |  | Engineered Fill  |
|  | Sandy Clay and Clays with some Silt, Sand or Gravel    |  | Gravelly Fill                        |  | A/B/ Gravel Fill |
|  | Silts, Clayey Gravel and Sands                         |  | Water Table (11/08/04)               |  |                  |
|  | Gasoline-340<br>MineralSpirits/TPH(d)-27<br>Benzene-ND |  | Soil Sample Analysis Results (mg/kg) |  |                  |



**HYDROSTRATIGRAPHIC SECTION F-F'**

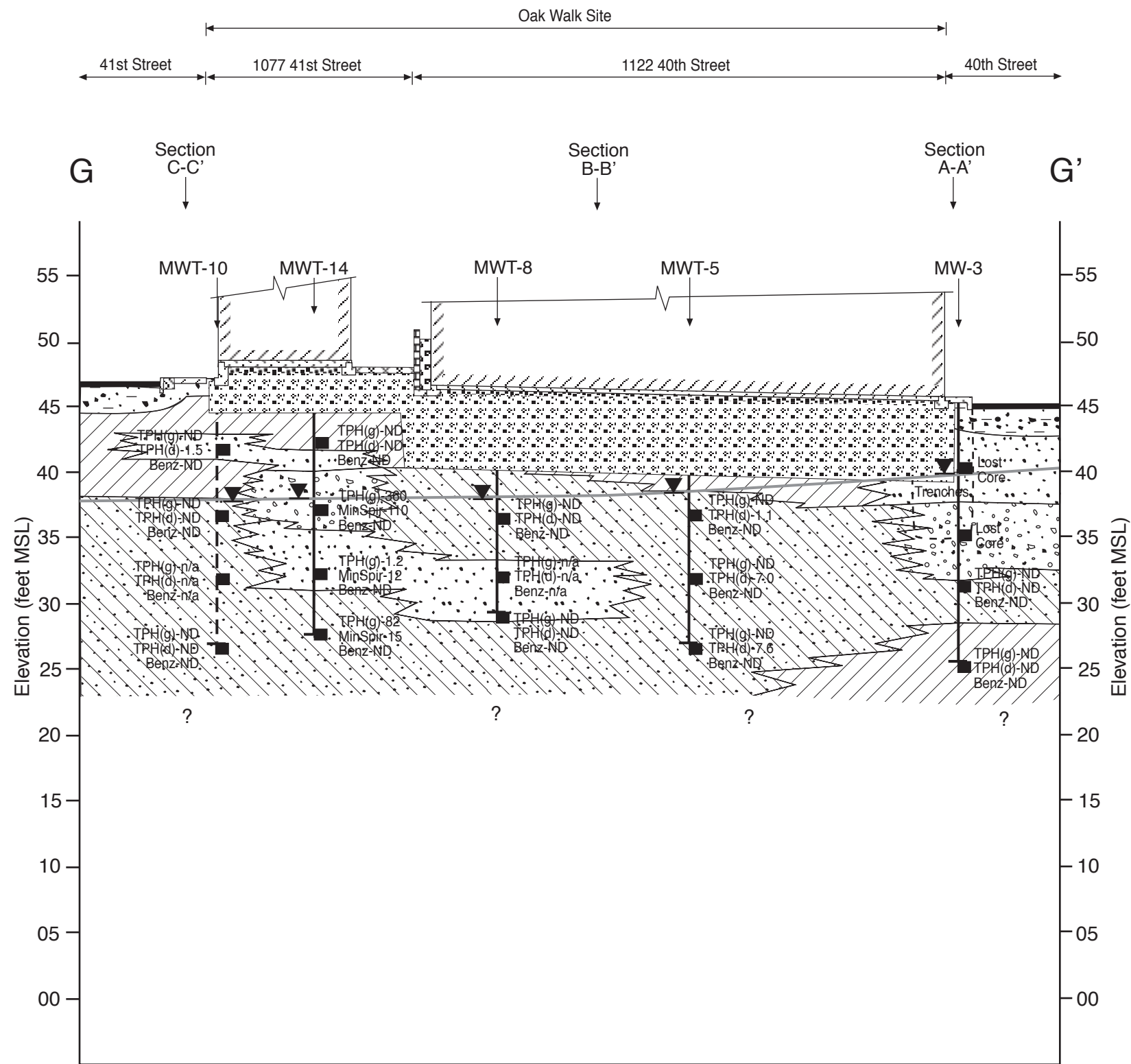
Oak Walk Site  
Emeryville, California

FIG 10

**The San Joaquin Company Inc.**

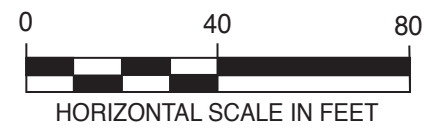
Project Number: 0004.0812

Drawn by: GNM Date: 11/30/09



**EXPLANATION**

- |  |   |  |                        |  |                                      |
|--|---|--|------------------------|--|--------------------------------------|
|  | Clays and Silty Clays                               |  | Gravel                 |  | Engineered Fill                      |
|  | Sandy Clay and Clays with some Silt, Sand or Gravel |  | Gravelly Fill          |  | A/B/ Gravel Fill                     |
|  | Silts, Clayey Gravel and Sands                      |  | Water Table (11/08/04) |  | Soil Sample Analysis Results (mg/kg) |
- Gasoline-340  
MineralSpirits/TPH(d)-27  
Benzene-ND



**HYDROSTRATIGRAPHIC SECTION G-G'**

Oak Walk Site  
Emeryville, California

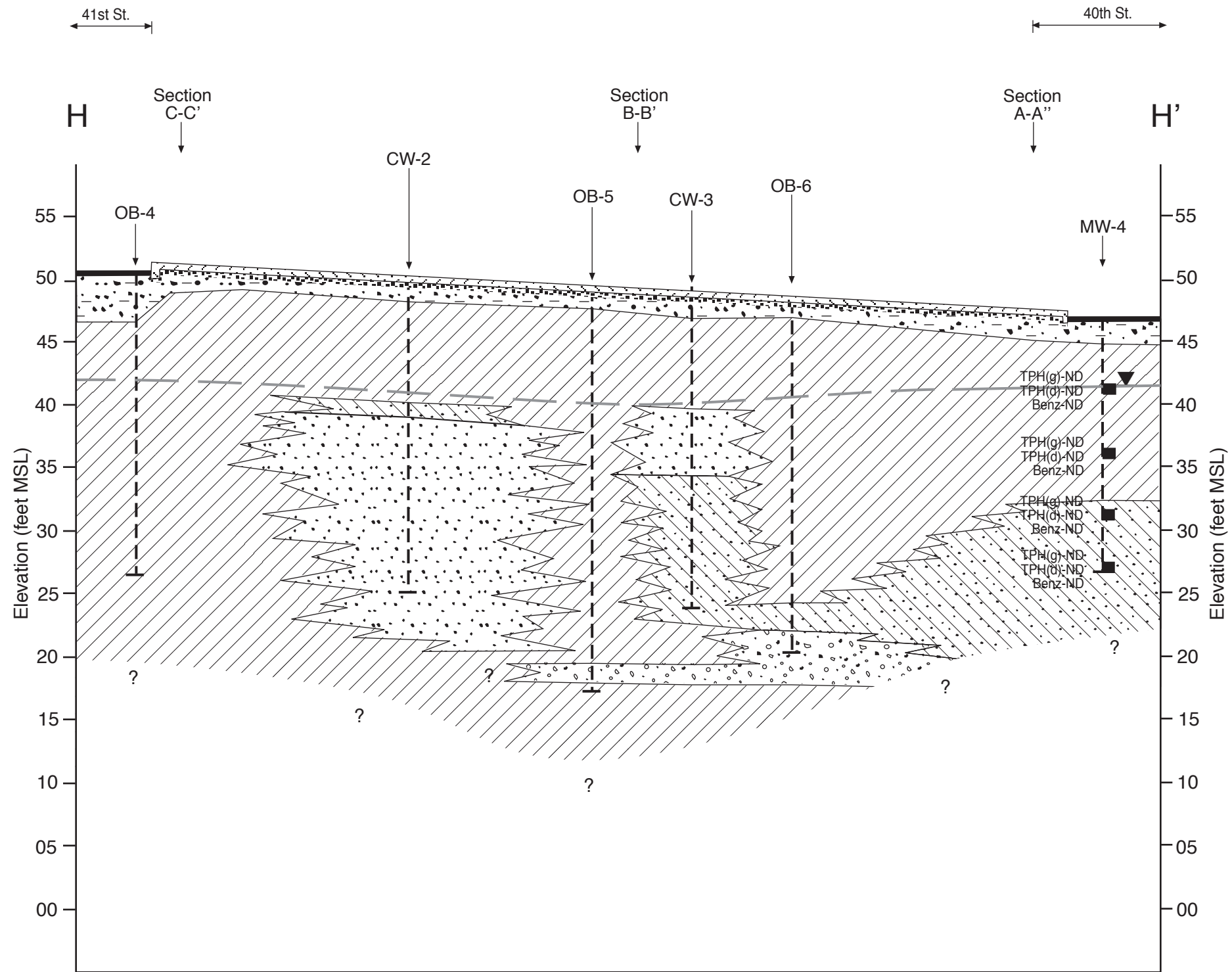
FIG 11

**The San Joaquin Company Inc.**









Project Number: 0004.0812

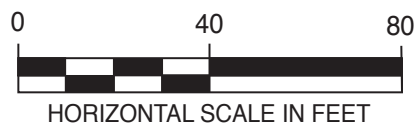
Drawn by: GNM

Date: 12/02/09



**EXPLANATION**

- |   |  |   |
|---|--|---|
|  Clays and Silty Clays                               |  Gravel                 |  Engineered Fill  |
|  Sandy Clay and Clays with some Silt, Sand or Gravel |  Gravelly Fill          |  A/B/ Gravel Fill |
|  Silts, Clayey Gravel and Sands                      |  Water Table (11/08/04) |   |
| Gasoline-340<br>MineralSpirits/TPH(d)-27<br>Benzene-ND  | Soil Sample Analysis<br>Results (mg/kg)  |   |

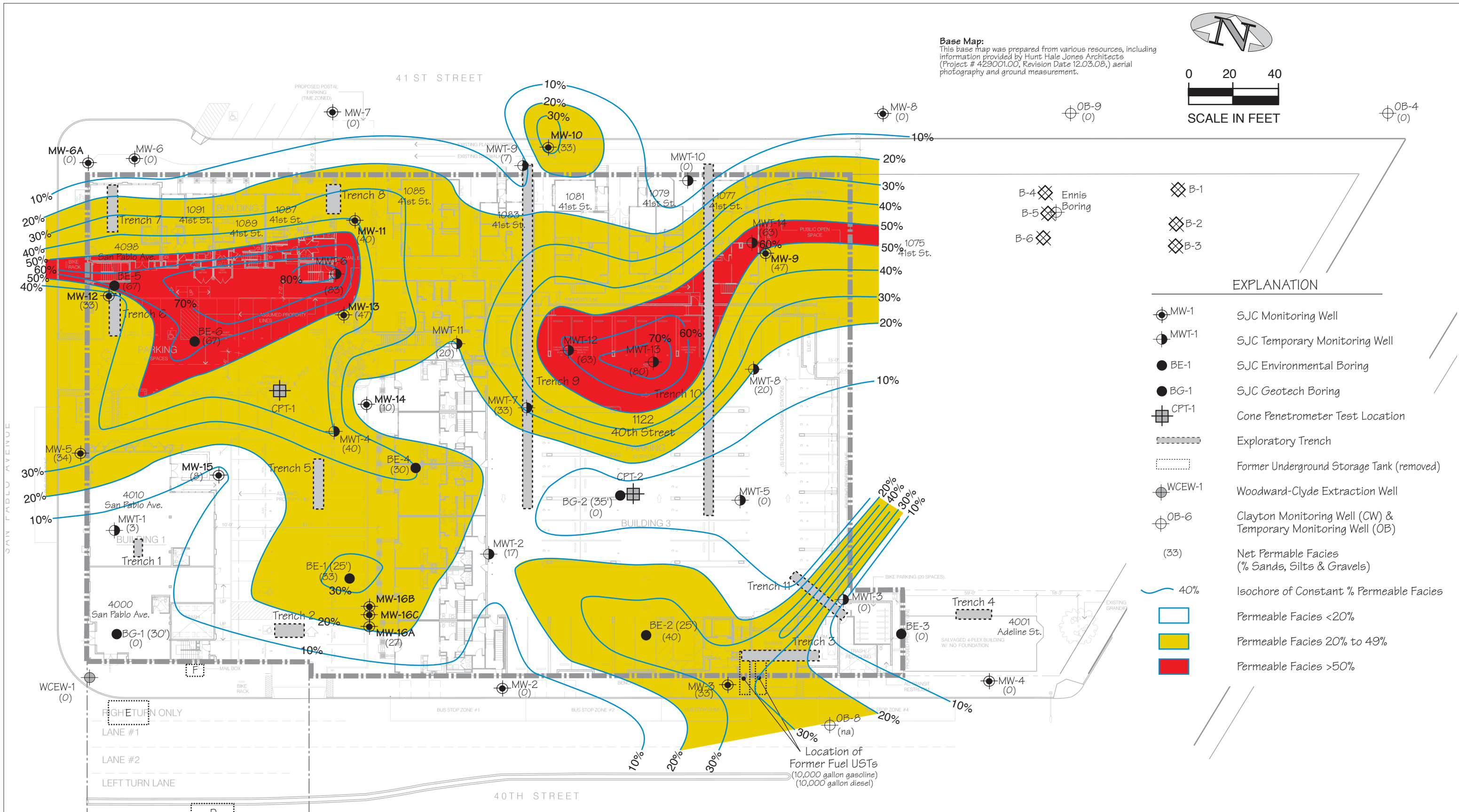
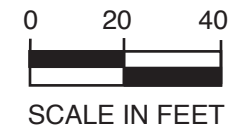


<b>HYDROSTRATIGRAPHIC SECTION H-H'</b> Oak Walk Site Emeryville, California		
FIG 12	<b>The San Joaquin Company Inc.</b>	Project Number: 0004.0812 Drawn by: GNM    Date: 12/02/09





**Base Map:**  
 This base map was prepared from various resources, including information provided by Hunt Hale Jones Architects (Project # 429001.00, Revision Date 12.03.08,) aerial photography and ground measurement.



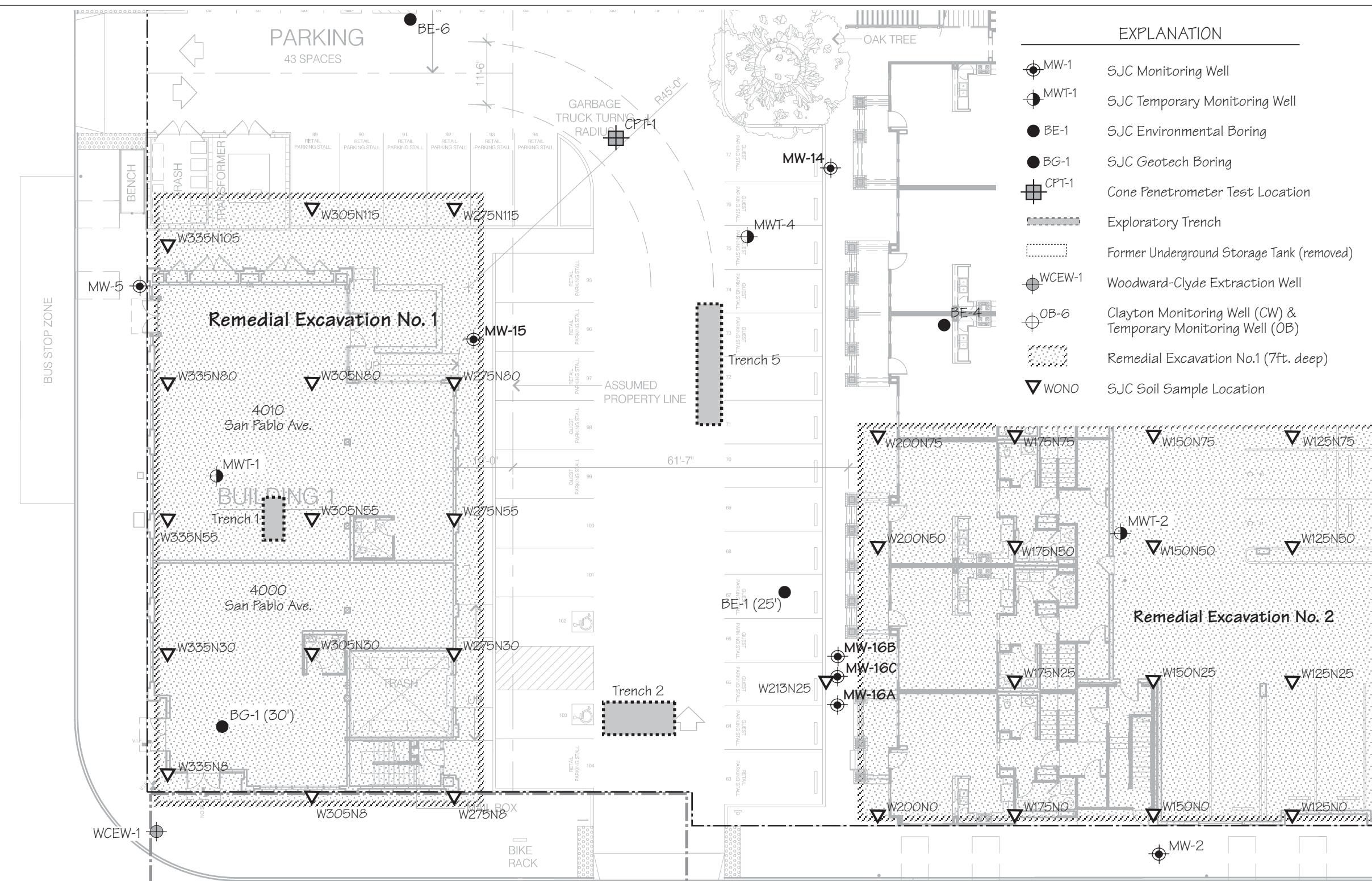
- B-4 Ennis Boring
- B-5 Boring
- B-6 Boring
- B-1
- B-2
- B-3

- EXPLANATION**
- MW-1 SJC Monitoring Well
  - MWT-1 SJC Temporary Monitoring Well
  - BE-1 SJC Environmental Boring
  - BG-1 SJC Geotech Boring
  - CPT-1 Cone Penetrometer Test Location
  - Exploratory Trench
  - Former Underground Storage Tank (removed)
  - WCEW-1 Woodward-Clyde Extraction Well
  - OB-6 Clayton Monitoring Well (CW) & Temporary Monitoring Well (OB)
  - (33) Net Permeable Facies (% Sands, Silts & Gravels)
  - 40% Isochore of Constant % Permeable Facies
  - Permeable Facies <20%
  - Permeable Facies 20% to 49%
  - Permeable Facies >50%

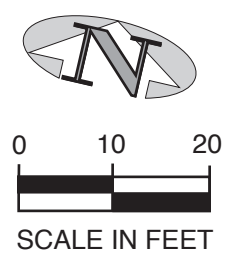
**Former USTs**  
 A = 4000gal. Unleaded Gas UST  
 B = 3500gal. Super Unleaded Gas UST  
 C = 2000gal. Unleaded Gas UST  
 D = 6000gal. Regular Gas UST  
 E = 7500gal. Diesel UST  
 F = 550gal. Waste Oil UST

<b>NET PERMEABLE FACIES</b>		Oak Walk Site Emeryville, California	
FIG 13	<b>The San Joaquin Company Inc.</b>	Project Number: 0004.0812	Date: 12/02/09

SAN PABLO AVENUE



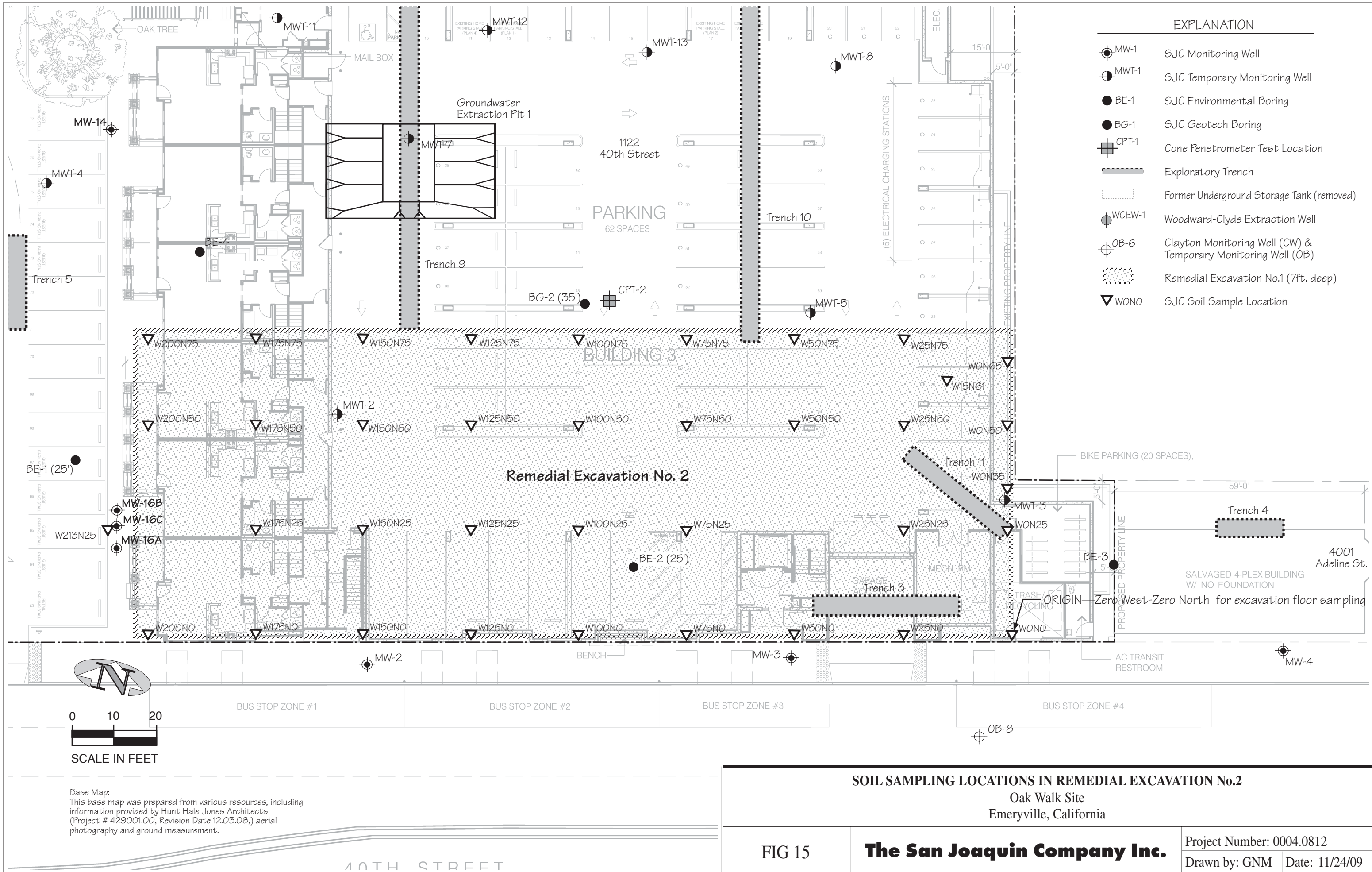
EXPLANATION	
	SJC Monitoring Well
	SJC Temporary Monitoring Well
	SJC Environmental Boring
	SJC Geotech Boring
	Cone Penetrometer Test Location
	Exploratory Trench
	Former Underground Storage Tank (removed)
	Woodward-Clyde Extraction Well
	Clayton Monitoring Well (CW) & Temporary Monitoring Well (OB)
	Remedial Excavation No.1 (7ft. deep)
	SJC Soil Sample Location



Base Map:  
This base map was prepared from various resources, including information provided by Hunt Hale Jones Architects (Project # 429001.00, Revision Date 12.03.08,) aerial photography and ground measurement.

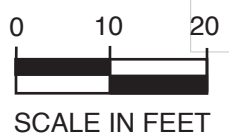
RIGHT TURN ONLY  
LANE #1  
LANE #2  
LEFT TURN LANE

<b>SOIL SAMPLING LOCATIONS IN REMEDIAL EXCAVATION No.1</b>	
Oak Walk Site Emeryville, California	
FIG 14	<b>The San Joaquin Company Inc.</b>
Project Number: 0004.0812	
Drawn by: GNM Date: 11/24/09	



**EXPLANATION**

- MW-1 SJC Monitoring Well
- MWT-1 SJC Temporary Monitoring Well
- BE-1 SJC Environmental Boring
- BG-1 SJC Geotech Boring
- ⊕ CPT-1 Cone Penetrometer Test Location
- ▬ Exploratory Trench
- ▭ Former Underground Storage Tank (removed)
- ⊕ WCEW-1 Woodward-Clyde Extraction Well
- ⊕ OB-6 Clayton Monitoring Well (CW) & Temporary Monitoring Well (OB)
- ▨ Remedial Excavation No.1 (7ft. deep)
- ▽ WONO SJC Soil Sample Location



Base Map:  
 This base map was prepared from various resources, including information provided by Hunt Hale Jones Architects (Project # 429001.00, Revision Date 12.03.08,) aerial photography and ground measurement.

**SOIL SAMPLING LOCATIONS IN REMEDIAL EXCAVATION No.2**  
 Oak Walk Site  
 Emeryville, California

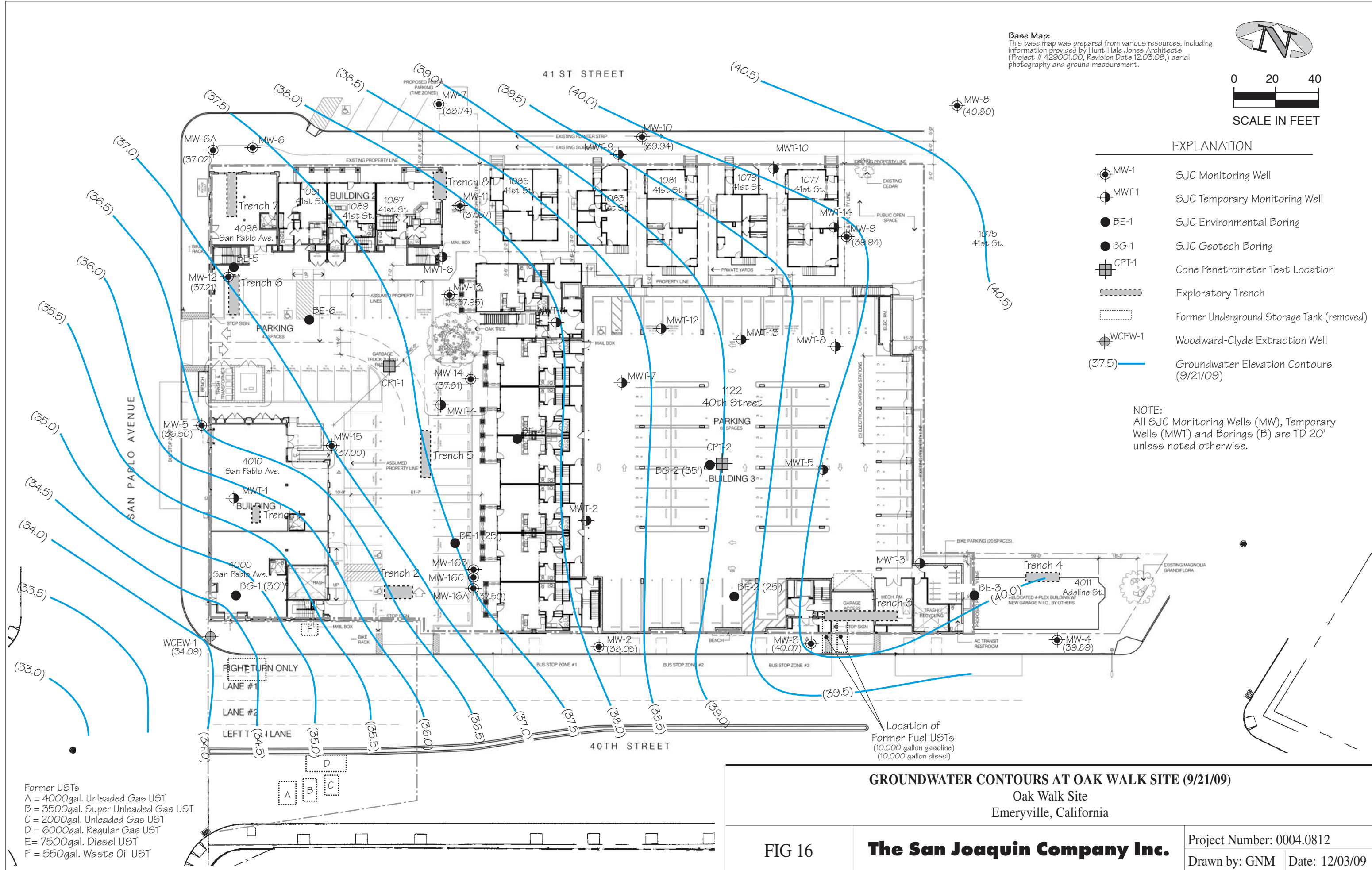
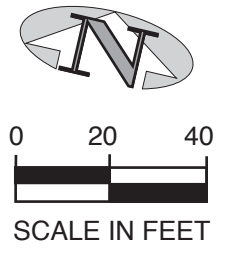
FIG 15

**The San Joaquin Company Inc.**

Project Number: 0004.0812  
 Drawn by: GNM Date: 11/24/09



**Base Map:**  
 This base map was prepared from various resources, including information provided by Hunt Hale Jones Architects (Project # 429001.00, Revision Date 12.03.08,) aerial photography and ground measurement.



EXPLANATION	
	SJC Monitoring Well
	SJC Temporary Monitoring Well
	SJC Environmental Boring
	SJC Geotech Boring
	Cone Penetrometer Test Location
	Exploratory Trench
	Former Underground Storage Tank (removed)
	Woodward-Clyde Extraction Well
	Groundwater Elevation Contours (9/21/09)

**NOTE:**  
 All SJC Monitoring Wells (MW), Temporary Wells (MWT) and Borings (B) are TD 20' unless noted otherwise.

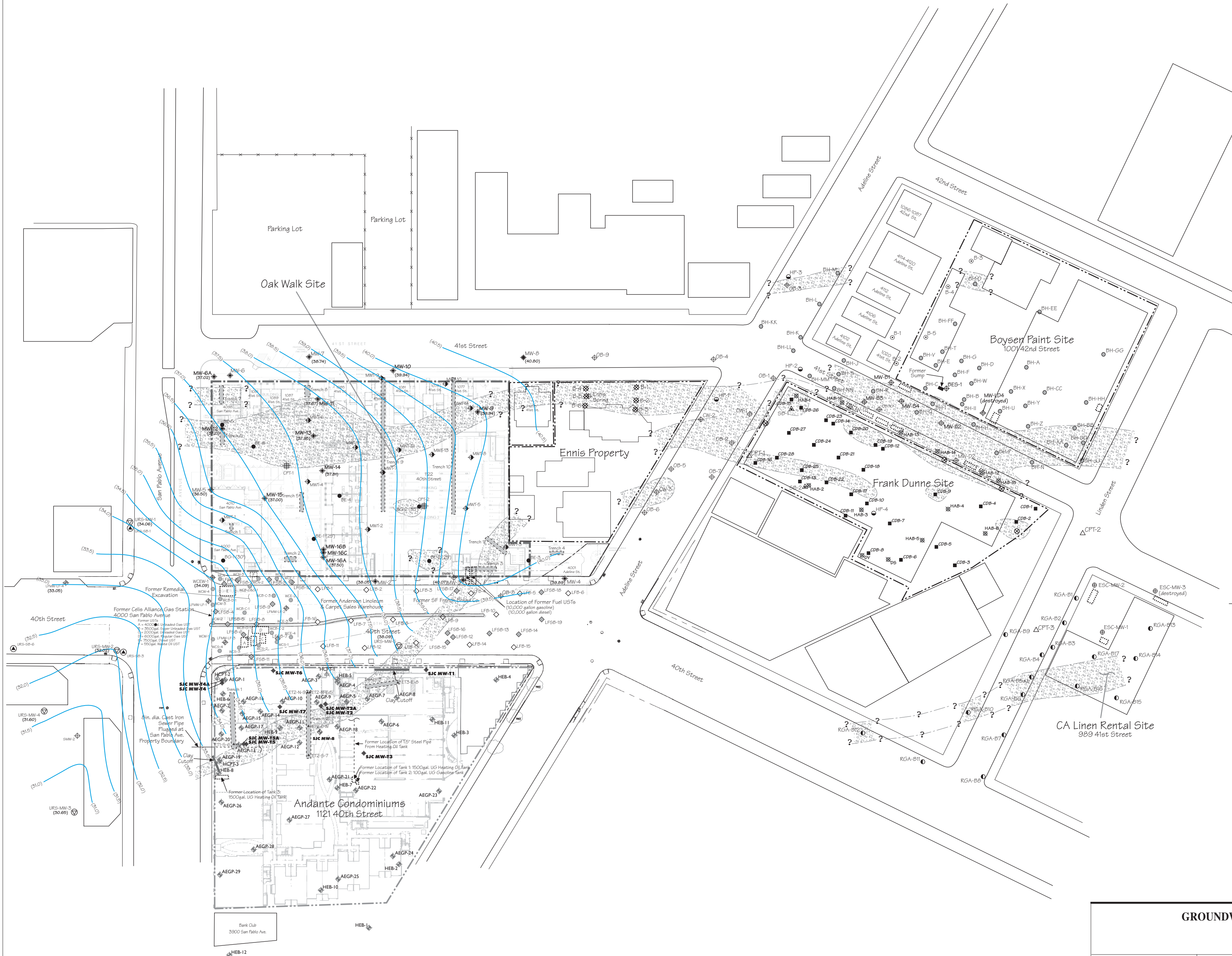
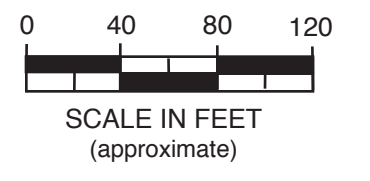
Former USTs  
 A = 4000gal. Unleaded Gas UST  
 B = 3500gal. Super Unleaded Gas UST  
 C = 2000gal. Unleaded Gas UST  
 D = 6000gal. Regular Gas UST  
 E = 7500gal. Diesel UST  
 F = 550gal. Waste Oil UST

**GROUNDWATER CONTOURS AT OAK WALK SITE (9/21/09)**  
 Oak Walk Site  
 Emeryville, California



**Base Map:**  
This base map was prepared from various resources, including information provided by:

- Hunt Hale Jones Architects (Project # 42900100, Revision Date 12.03.08.)
- Bay Area Land Surveying - ALTA / ACSM Land Title Survey; Portion of Lots 3, 4, 5 & 6 of the H.C. Dohr's Homestead (Nov. 2003)
- Gandis Humber Jones - ALTA / ACSM Land Title Survey; San Pablo Ave. & 40th Street Extension Drawing No. 600104.ALTA (7/25/01)
- Clayton Group Services - Monitoring Well Locations Former Dunner Paints 1007 41st St., Oakland, Figure 2, Project No. 70-03365.04 (12/05/03)
- Clayton Group Services - Historical Subject Property Plan 1007 41st St. & 4050 Adeline St., Oakland, Figure 3, Project No. 70-03365.00 (09/06/02)
- Aerial Photography and Ground Measurement



**Note:**  
Except on Andante and Frank Dunne sites, location and continuity of paleo streambed deposits are tentative. Continuity of paleo streambed channels as shown on Boyson Paint Site, 41st Street, Ennis Property, 40th Street, California Linen Rental, and Adeline Street are assumed based on a preponderance of available boring log, hydrostratigraphic and geochemical data.

**EXPLANATION**

	Groundwater Elevation Contour (9/21/09) Contour Interval 0.5'		Woodward-Clyde Soil Sample
	SJC Monitoring Well (Oak Walk)		Woodward-Clyde Soil Boring
	SJC Temporary Monitoring Well (Oak Walk)		Levine Fricke Soil Boring
	SJC Environmental Boring (Oak Walk)		Levine Fricke Monitoring Well
	SJC Geotech Boring (Oak Walk)		Harza Exploratory Boring
	Cone Penetrometer Test Location (Oak Walk)		SECOR Monitoring Well
	Exploratory Trench		APEX Envirotech, Inc. Boring
	Underground Storage Tank (removed)		SJC Temporary Monitoring Well (SNK Andante)
	Woodward-Clyde Extraction Well		Paleo Streambed, Gravelly Areas
	Clayton Monitoring Well (CW) & Temporary Monitoring Well (OB)		Trench Soil Sample Location
	Clayton Boring (Ennis)		Dunne Paints Monitoring Well
	Clayton Boring (Dunn)		ASE Boring
	ERM Boring (6/06)		ASE Temporary Well
	Kozel Property Monitoring Well		Environmental Strategies Corp Monitoring Well
	URS Geoprobe Soil Boring		Hageman-Aguilar, Inc. Soil Boring
	URS Monitoring Well		Cone Penetrometer Test (SCI)
	RGA Environmental Boring		Soil Boring (SCI)
	Extraction Well		

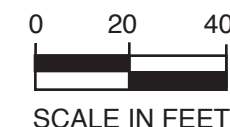
**GROUNDWATER COUNTOURS AT OAK WALK & CELIS SITES (9/21/09)**

Oak Walk Site  
Emeryville, California

FIG 17

**The San Joaquin Company Inc.**

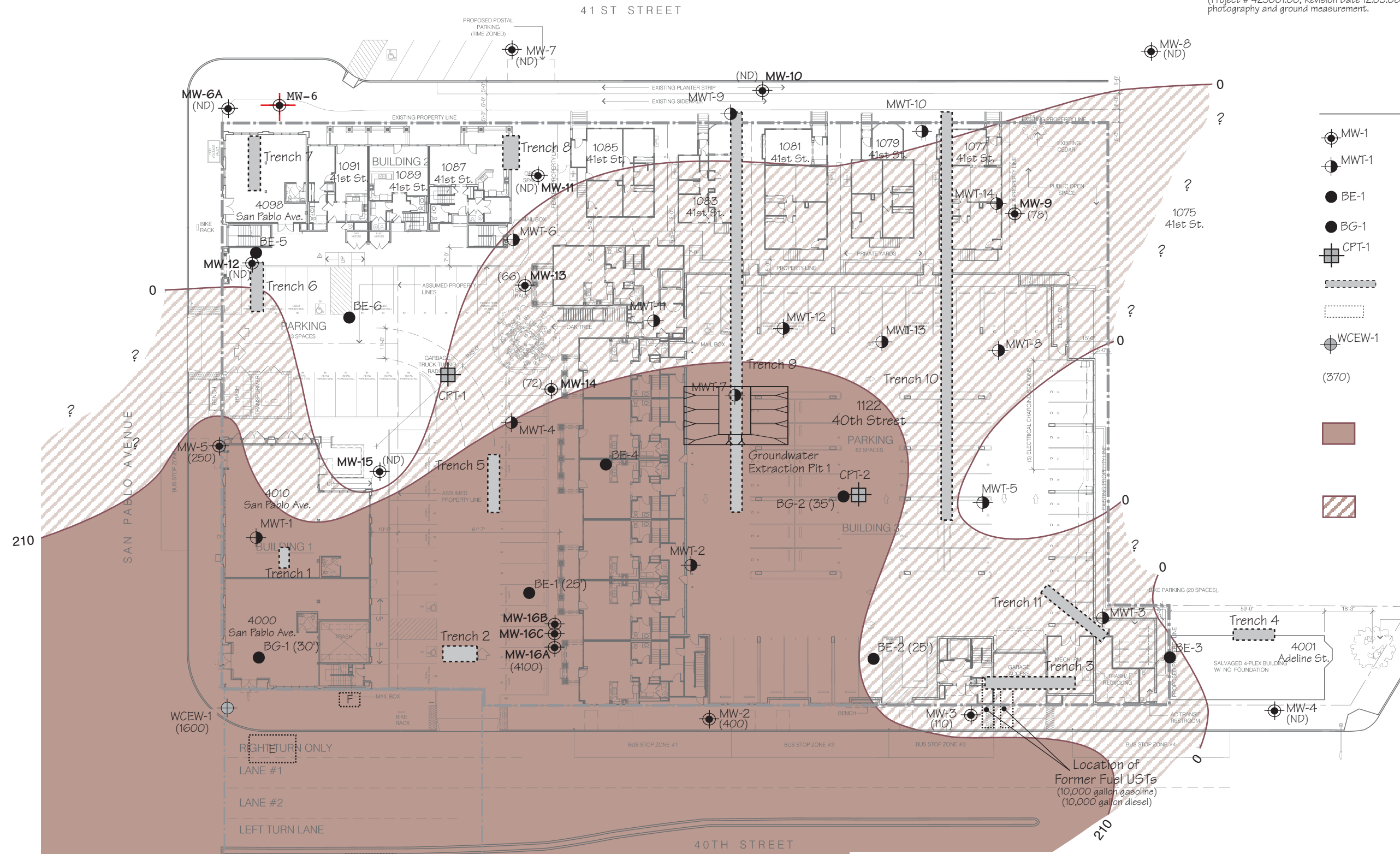
Project Number: 0004.0812  
Drawn by: GNM Date: 10/31/09



**Base Map:**  
This base map was prepared from various resources, including information provided by Hunt Hale Jones Architects (Project # 429001.00, Revision Date 12.03.08,) aerial photography and ground measurement.

**EXPLANATION**

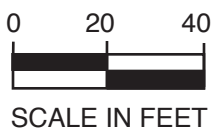
- MW-1 SJG Monitoring Well
- MWT-1 SJG Temporary Monitoring Well
- BE-1 SJG Environmental Boring
- BG-1 SJG Geotech Boring
- CPT-1 Cone Penetrometer Test Location
- Exploratory Trench
- Former Underground Storage Tank (removed)
- WCEW-1 Woodward-Clyde Extraction Well
- (370) Result of analysis of middle distillate-range hydrocarbons in groundwater (September, 2009)
- Area affected by middle distillate-range hydrocarbons at concentrations above the applicable ESLs for soil or groundwater
- Area affected by middle distillate-range hydrocarbons at concentrations below the applicable ESLs for soil or groundwater



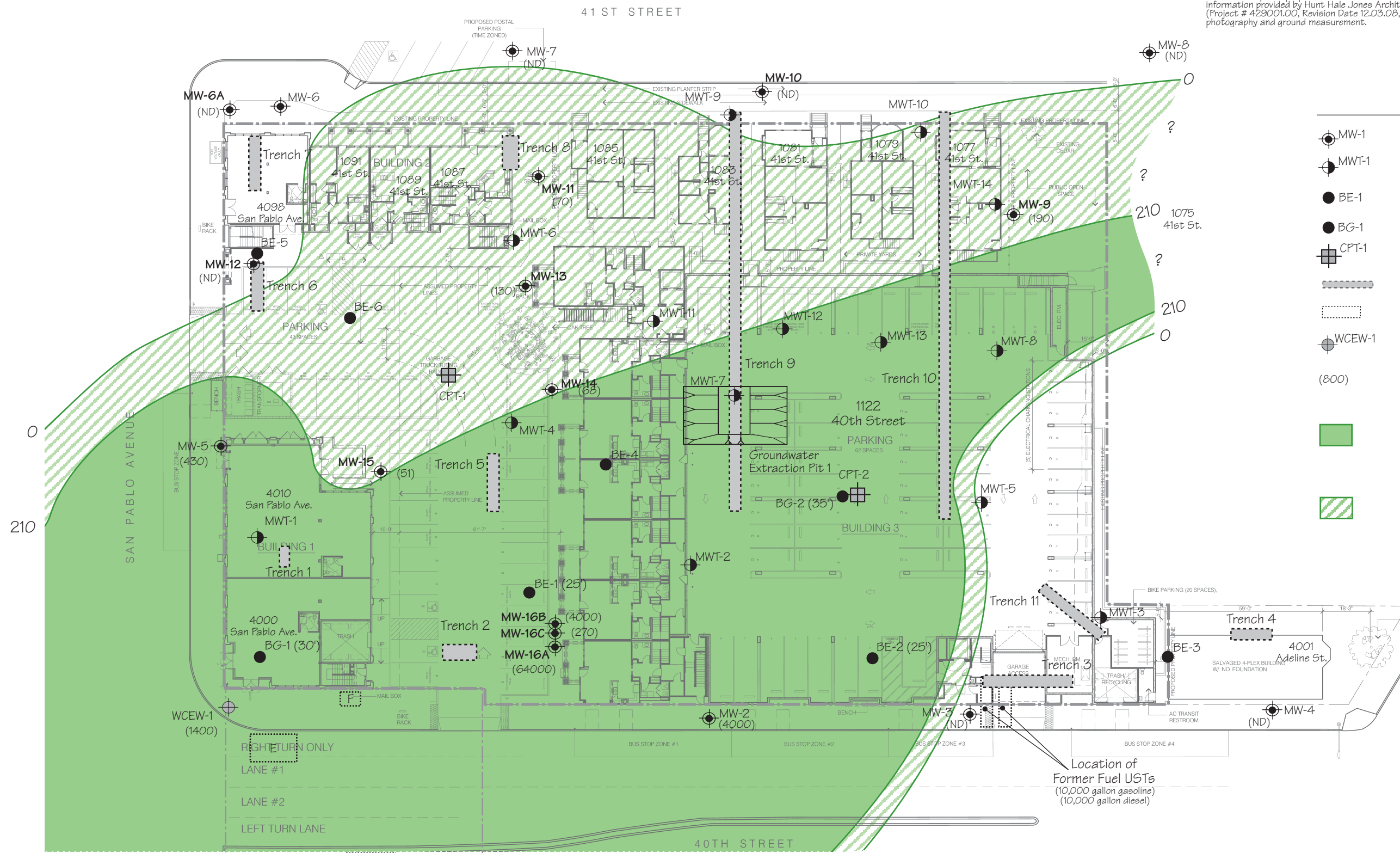
Former USTs  
 A = 4000gal. Unleaded Gas UST  
 B = 3500gal. Super Unleaded Gas UST  
 C = 2000gal. Unleaded Gas UST  
 D = 6000gal. Regular Gas UST  
 E = 7500gal. Diesel UST  
 F = 550gal. Waste Oil UST

**AREAS OF THE OAK WALK SITE AFFECTED BY MIDDLE DISTILLATE-RANGE HYDROCARBONS IN SOIL & GROUNDWATER**  
 Oak Walk Site, Emeryville, California





**Base Map:**  
 This base map was prepared from various resources, including information provided by Hunt Hale Jones Architects (Project # 429001.00, Revision Date 12.03.08,) aerial photography and ground measurement.



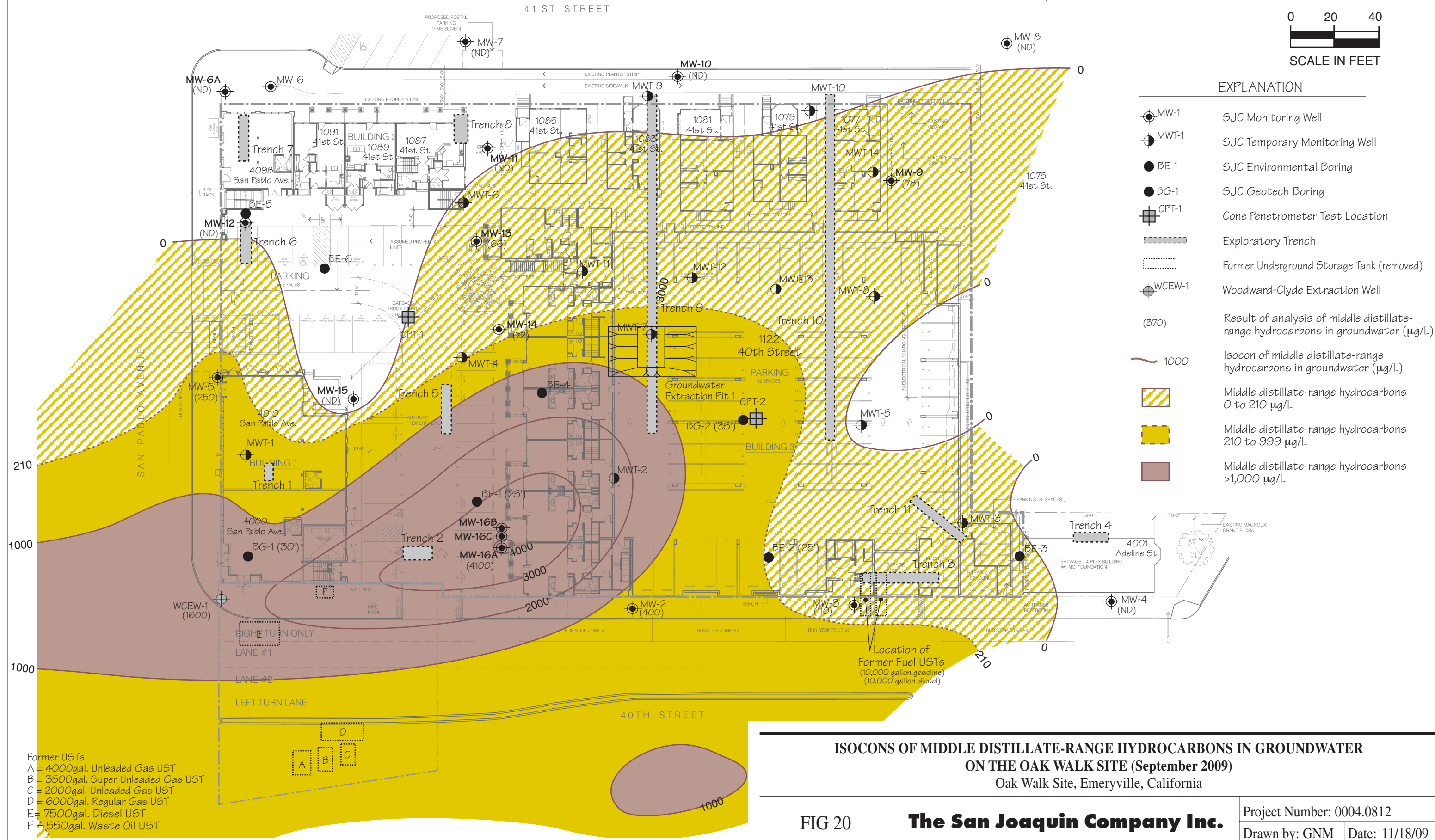
**EXPLANATION**

- MW-1 SJC Monitoring Well
- MWT-1 SJC Temporary Monitoring Well
- BE-1 SJC Environmental Boring
- BG-1 SJC Geotech Boring
- CPT-1 Cone Penetrometer Test Location
- Exploratory Trench
- Former Underground Storage Tank (removed)
- Woodward-Clyde Extraction Well
- (800) Result of analysis of gasoline-range hydrocarbons in groundwater ( $\mu\text{g}/\text{l}$ ) (September 2009)
- Area affected by gasoline-range hydrocarbons at concentrations above the applicable ESLs for soil or groundwater ( $\mu\text{g}/\text{l}$ )
- Area affected by gasoline-range hydrocarbons at concentrations below the applicable ESLs for soil or groundwater ( $\mu\text{g}/\text{l}$ )

Former USTs  
 A = 4000gal. Unleaded Gas UST  
 B = 3500gal. Super Unleaded Gas UST  
 C = 2000gal. Unleaded Gas UST  
 D = 6000gal. Regular Gas UST  
 E = 7500gal. Diesel UST  
 F = 550gal. Waste Oil UST

**AREAS OF THE OAK WALK SITE AFFECTED BY GASOLINE-RANGE HYDROCARBONS IN SOIL & GROUNDWATER (September 2009)**  
 Oak Walk Site, Emeryville, California

**Base Map:**  
 This base map was prepared from various resources, including information provided by Hunt Hale Jones Architects (Project # 429001.00, Revision Date 12.03.08,) aerial photography and ground measurement.



EXPLANATION	
	SJC Monitoring Well
	SJC Temporary Monitoring Well
	SJC Environmental Boring
	SJC Geotech Boring
	Cone Penetrometer Test Location
	Exploratory Trench
	Former Underground Storage Tank (removed)
	Woodward-Clyde Extraction Well
(370)	Result of analysis of middle distillate-range hydrocarbons in groundwater (µg/L)
1000	Isocon of middle distillate-range hydrocarbons in groundwater (µg/L)
	Middle distillate-range hydrocarbons 0 to 210 µg/L
	Middle distillate-range hydrocarbons 210 to 999 µg/L
	Middle distillate-range hydrocarbons >1,000 µg/L

Former USTs  
 A = 4000gal. Unleaded Gas UST  
 B = 3500gal. Super Unleaded Gas UST  
 C = 2000gal. Unleaded Gas UST  
 D = 6000gal. Regular Gas UST  
 E = 7500gal. Diesel UST  
 F = 550gal. Waste Oil UST

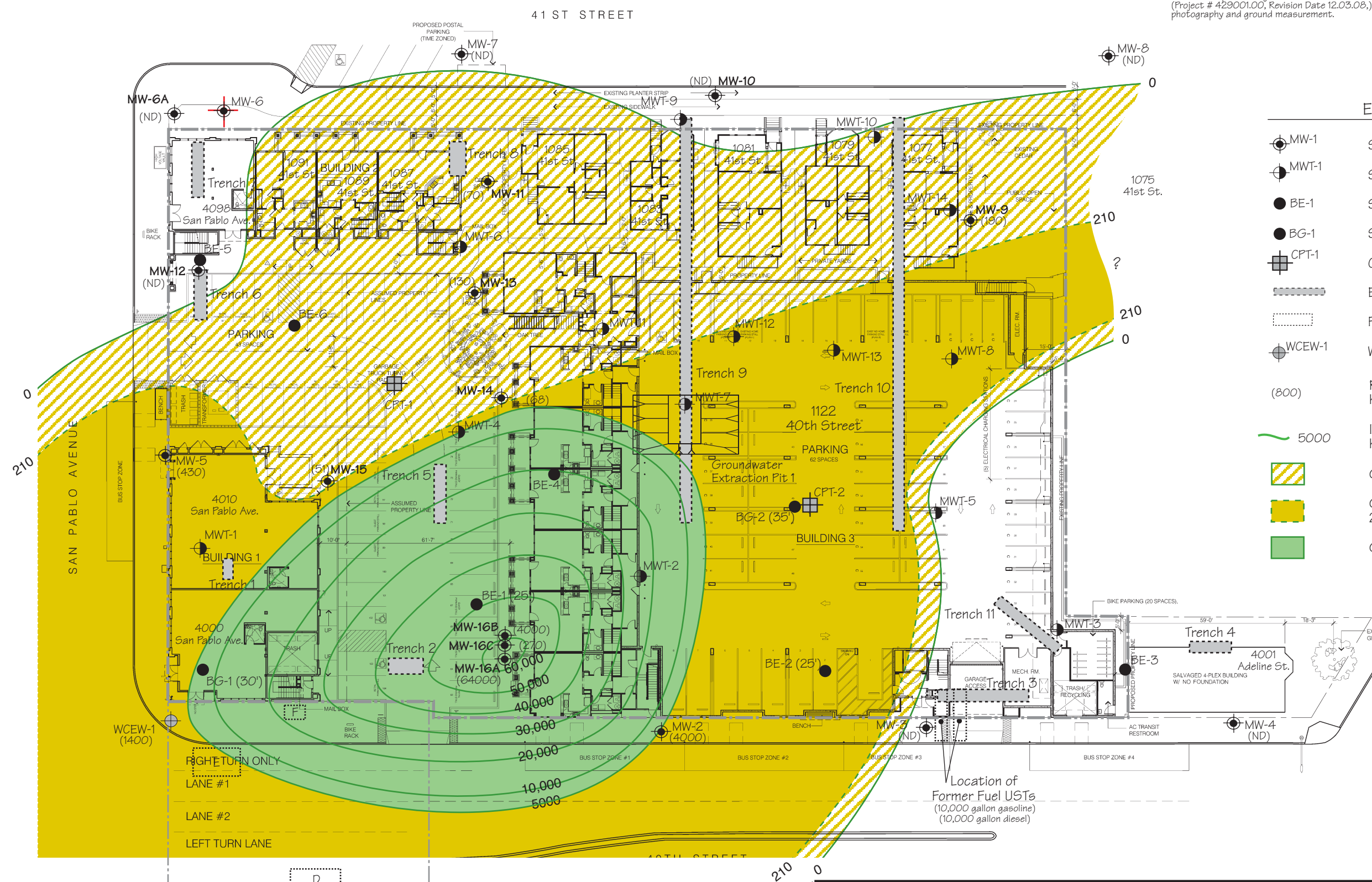
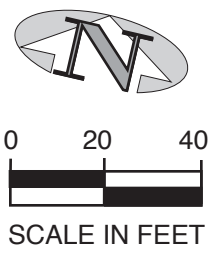
**ISOCONS OF MIDDLE DISTILLATE-RANGE HYDROCARBONS IN GROUNDWATER  
 ON THE OAK WALK SITE (September 2009)  
 Oak Walk Site, Emeryville, California**

FIG 20

**The San Joaquin Company Inc.**

Project Number: 0004.0812  
 Drawn by: GNM | Date: 11/18/09

**Base Map:**  
 This base map was prepared from various resources, including information provided by Hunt Hale Jones Architects (Project # 429001.00, Revision Date 12.03.08,) aerial photography and ground measurement.



EXPLANATION	
	SJC Monitoring Well
	SJC Temporary Monitoring Well
	SJC Environmental Boring
	SJC Geotech Boring
	Cone Penetrometer Test Location
	Exploratory Trench
	Former Underground Storage Tank (removed)
	Woodward-Clyde Extraction Well
	Result of analysis of gasoline-range hydrocarbons in groundwater (µg/L)
	Isocon of gasoline-range hydrocarbons in groundwater (µg/L)
	Gasoline-range hydrocarbons 0-210 µg/L
	Gasoline-range hydrocarbons 210 to 4999 µg/L
	Gasoline-range hydrocarbons >5000 µg/L

Former USTs  
 A = 4000gal. Unleaded Gas UST  
 B = 3500gal. Super Unleaded Gas UST  
 C = 2000gal. Unleaded Gas UST  
 D = 6000gal. Regular Gas UST  
 E = 7500gal. Diesel UST  
 F = 550gal. Waste Oil UST

**ISOCONS OF GASOLINE-RANGE HYDROCARBONS IN GROUNDWATER  
 AT THE OAK WALK SITE (September 2009)**  
 Oak Walk Site, Emeryville, California

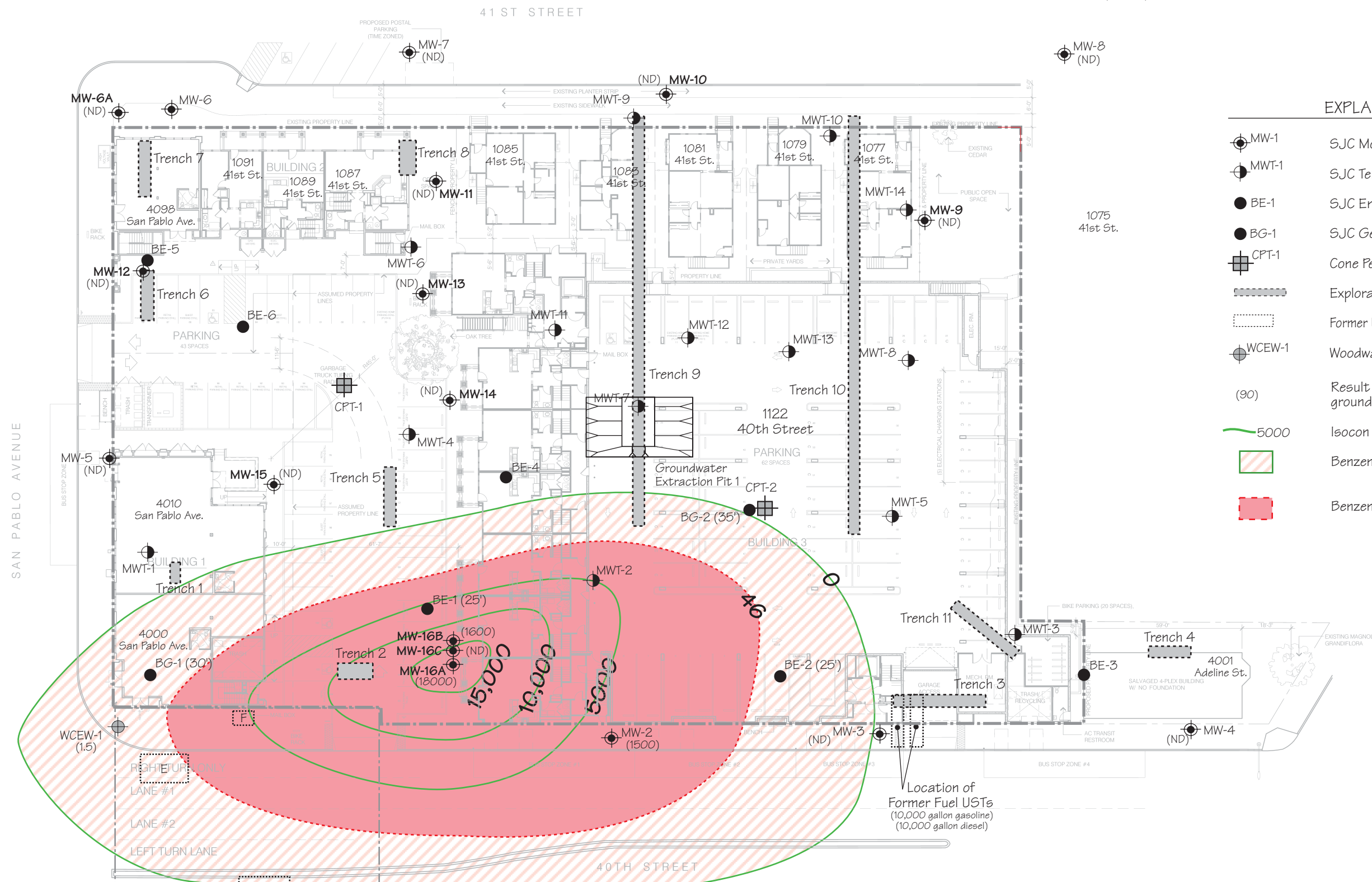
FIG 21

**The San Joaquin Company Inc.**

Project Number: 0004.0812  
 Drawn by: GNM Date: 12/04/09



**Base Map:**  
 This base map was prepared from various resources, including information provided by Hunt Hale Jones Architects (Project # 429001.00, Revision Date 12.03.08,) aerial photography and ground measurement.



**EXPLANATION**

- MW-1 SJC Monitoring Well
- MWT-1 SJC Temporary Monitoring Well
- BE-1 SJC Environmental Boring
- BG-1 SJC Geotech Boring
- CPT-1 Cone Penetrometer Test Location
- Exploratory Trench
- Former Underground Storage Tank (removed)
- WCEW-1 Woodward-Clyde Extraction Well
- (90) Result of analysis of Benzene in groundwater (µg/L)
- 5000 Isocon of Benzene in groundwater (µg/L)
- Benzene 0-46 µg/L
- Benzene >46 µg/L

Former USTs  
 A = 4000gal. Unleaded Gas UST  
 B = 3500gal. Super Unleaded Gas UST  
 C = 2000gal. Unleaded Gas UST  
 D = 6000gal. Regular Gas UST  
 E = 7500gal. Diesel UST  
 F = 550gal. Waste Oil UST

**ISOCONS OF BENZENE IN GROUNDWATER ON THE OAK WALK SITE (September 2009)**

Oak Walk Site  
 Emeryville, California

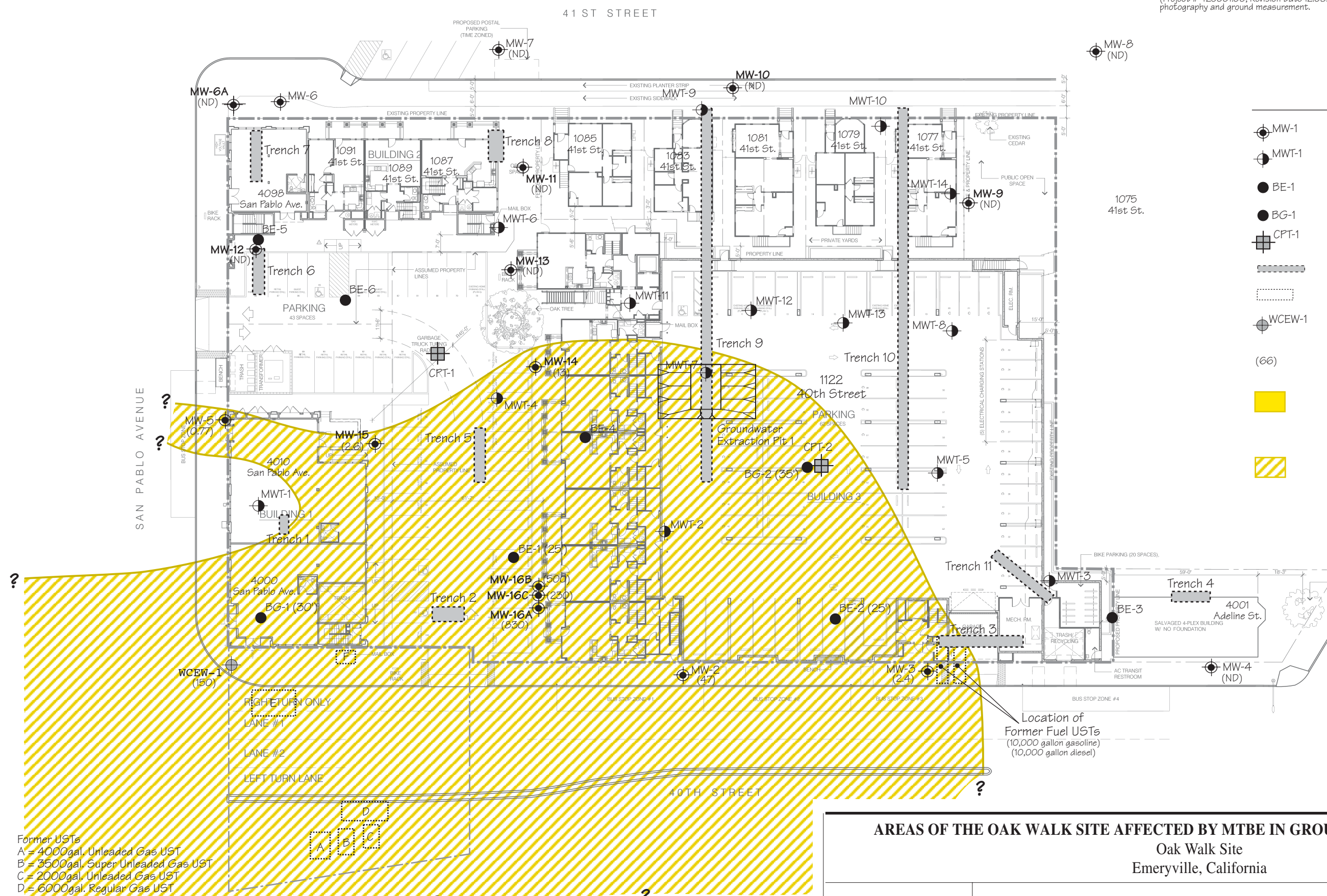
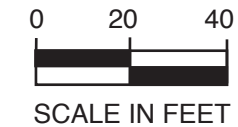
FIG 22

**The San Joaquin Company Inc.**

Project Number: 0004.0812

Drawn by: GNM Date: 12/04/09

**Base Map:**  
 This base map was prepared from various resources, including information provided by Hunt Hale Jones Architects (Project # 429001.00, Revision Date 12.03.08,) aerial photography and ground measurement.



EXPLANATION	
	SJC Monitoring Well
	SJC Temporary Monitoring Well
	SJC Environmental Boring
	SJC Geotech Boring
	Cone Penetrometer Test Location
	Exploratory Trench
	Former Underground Storage Tank (removed)
	Woodward-Clyde Extraction Well
(66)	Result of analysis of MTBE in groundwater
	Area affected by MTBE at concentrations above the applicable ESL groundwater
	Area affected by MTBE at concentrations below the applicable ESL for groundwater

Former USTs  
 A = 4000gal. Unleaded Gas UST  
 B = 3500gal. Super Unleaded Gas UST  
 C = 2000gal. Unleaded Gas UST  
 D = 6000gal. Regular Gas UST  
 E = 7500gal. Diesel UST  
 F = 550gal. Waste Oil UST

**AREAS OF THE OAK WALK SITE AFFECTED BY MTBE IN GROUNDWATER (September 2009)**

Oak Walk Site  
 Emeryville, California

FIG 23

**The San Joaquin Company Inc.**

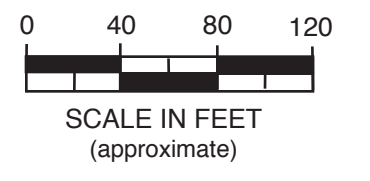
Project Number: 0004.0812

Drawn by: GNM Date: 11/23/09



**Base Map:**  
This base map was prepared from various resources, including information provided by:

- Hunt Hale Jones Architects (Project # 42900100, Revision Date 12.03.08.)
- Bay Area Land Surveying - ALTA / ACSM Land Title Survey; Portion of Lots 3, 4, 5 & 6 of the H.C. Dohr's Homestead (Nov. 2003)
- Sandis Humber Jones - ALTA / ACSM Land Title Survey; San Pablo Ave. & 40th Street Extension Drawing No. 600104.ALTA (7/25/01)
- Clayton Group Services - Monitoring Well Locations Former Dunner Paints 1007 41st St., Oakland, Figure 2, Project No. 70-03365.04 (12/05/03)
- Clayton Group Services - Historical Subject Property Plan 1007 41st St. & 4050 Adeline St., Oakland, Figure 3, Project No. 70-03365.00 (09/06/02)
- Aerial Photography and Ground Measurement



**Note:**  
Except on Andante and Frank Dunn sites, location and continuity of paleo streambed deposits are tentative. Continuity of paleo streambed channels as shown on Boyson Paint Site, 41st Street, Ennis Property, 40th Street, California Linen Rental, and Adeline Street are assumed based on a preponderance of available boring log, hydrostratigraphic and geochemical data.

**EXPLANATION**

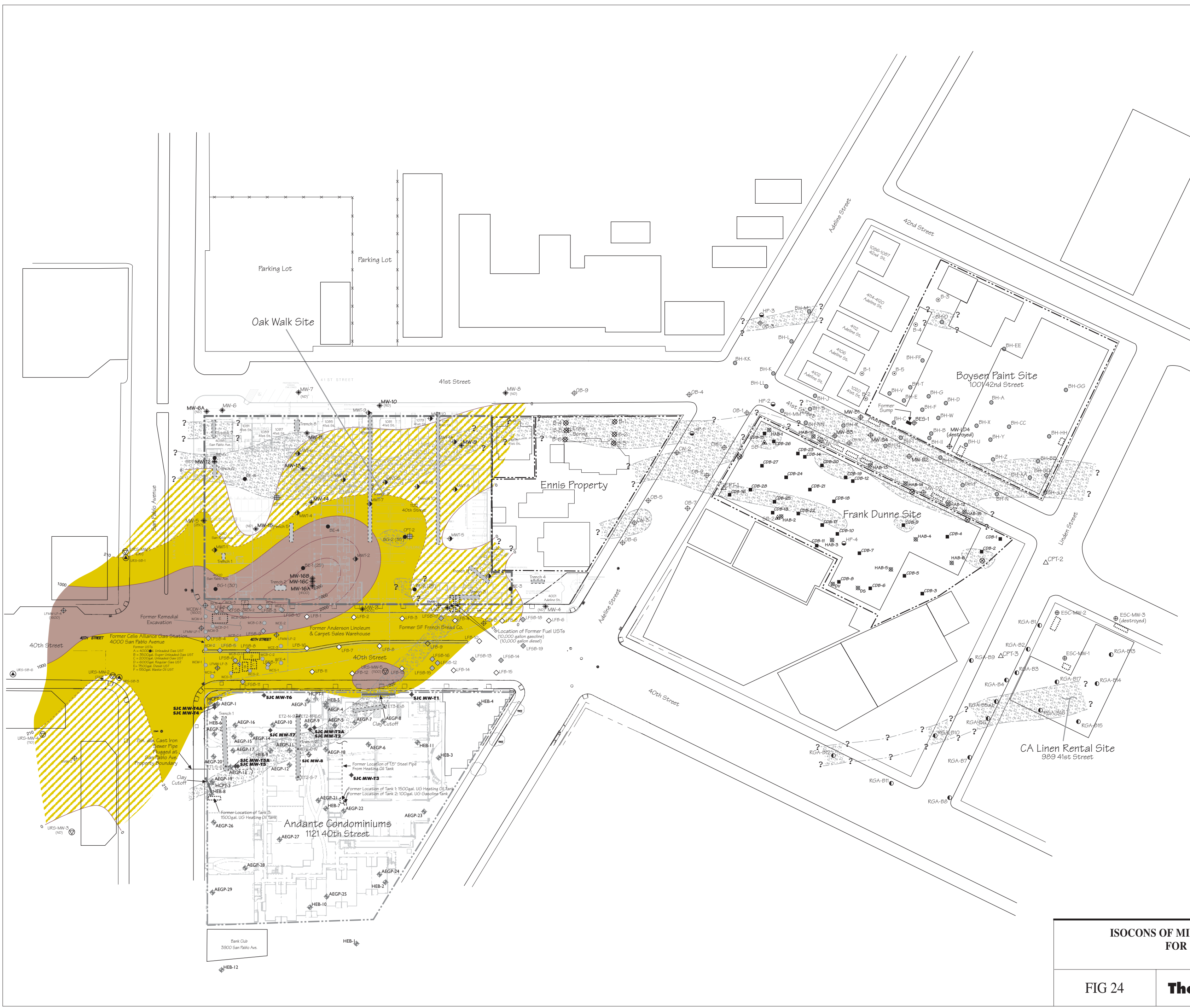
MW-1	SJC Monitoring Well (Oak Walk)	WCW-1	Woodward-Clyde Soil Sample
MWT-1	SJC Temporary Monitoring Well (Oak Walk)	LFB-14	Levine + Fricke Soil Boring
BE-1	SJC Environmental Boring (Oak Walk)	LFB-1	Levine + Fricke Soil Boring
BG-1	SJC Geotech Boring (Oak Walk)	FMW-LF-2	Levine + Fricke Monitoring Well
CPT-1	Cone Penetrometer Test Location (Oak Walk)	HEB-2	Harza Exploratory Boring
Exploratory Trench		SMW-1	SECOR Monitoring Well
Underground Storage Tank (removed)		AEGP-6	APEX Envirotech, Inc. Boring
Woodward-Clyde Extraction Well		<b>SJC MW-T1</b>	SJC Temporary Monitoring Well (SNK Andante)
Clayton Monitoring Well (OW) & Temporary Monitoring Well (OB)			Paleo Streambed, Gravelly Areas
Clayton Boring (Ennis)		ET1-S-6	Trench Soil Sample Location
ERM Boring (G/OG)		MW-D1	Dunne Paints Monitoring Well
Kozel Property Monitoring Well		HP-2	ASE Boring
URS Geoprobe Soil Boring		BH-S	ASE Temporary Well
URS Monitoring Well		ESC-MW-1	Environmental Strategies Corp Monitoring Well
RGAs-B17	RGAs Environmental Boring	HAB-4	Hageman-Aguilar, Inc. Soil Boring
Extraction Well		CPT-2	Cone Penetrometer Test (SCI)
		SB-2	Soil Boring (SCI)
		(370)	Result of analysis of middle distillate-range hydrocarbons in groundwater (µg/L) (9/09)
		1000	Isocoon of middle distillate-range hydrocarbons in groundwater (µg/L)
		Diagonal Hatching	Middle distillate-range hydrocarbons 0 to 210 µg/L
		Yellow	Middle distillate-range hydrocarbons 210 to 999 µg/L
		Brown	Middle distillate-range hydrocarbons >1000 µg/L

**ISOCONS OF MIDDLE DISTILLATE-RANGE HYDROCARBONS IN GROUNDWATER FOR COMBINED OAK WALK & CELIS SITES (September 2009)**  
Oak Walk Site, Emeryville, California

FIG 24

**The San Joaquin Company Inc.**

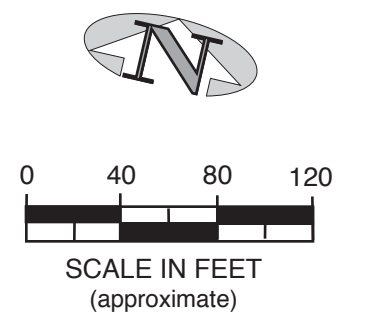
Project Number: 0004.0812  
Drawn by: GNM Date: 11/21/09



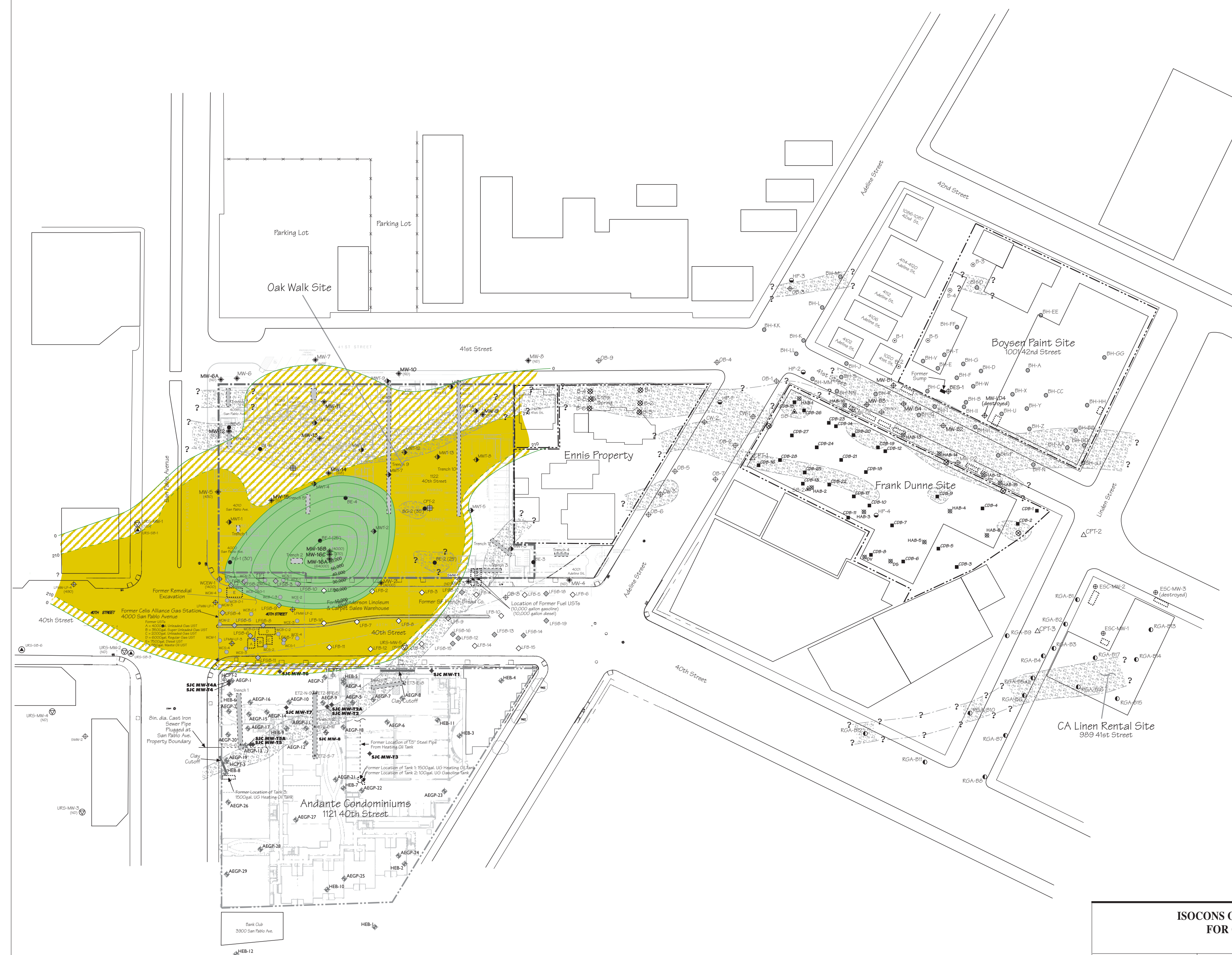


**Base Map:**  
This base map was prepared from various resources, including information provided by:

- Hunt Hale Jones Architects (Project # 42900100, Revision Date 12.03.08.)
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- Clayton Group Services - Monitoring Well Locations Former Dunner Paints 1007 41st St., Oakland, Figure 2, Project No. 70-03365.04 (12/05/03)
- Clayton Group Services - Historical Subject Property Plan 1007 41st St. & 4050 Adeline St., Oakland, Figure 3, Project No. 70-03365.00 (09/06/02)
- Aerial Photography and Ground Measurement



**Note:**  
Except on Andante and Frank Dunn sites, location and continuity of paleo streambed deposits are tentative. Continuity of paleo streambed channels as shown on Boyson Paint Site, 41st Street, Ennis Property, 40th Street, California Linen Rental, and Adeline Street are assumed based on a preponderance of available boring log, hydrostratigraphic and geochemical data.



**EXPLANATION**

MW-1	SJC Monitoring Well (Oak Walk)	WCW-1	Woodward-Clyde Soil Sample
MWT-1	SJC Temporary Monitoring Well (Oak Walk)	LFB-14	Levine + Fricke Soil Boring
BE-1	SJC Environmental Boring (Oak Walk)	LFB-1	Levine + Fricke Soil Boring
BG-1	SJC Geotech Boring (Oak Walk)	FMW-LF-2	Levine + Fricke Monitoring Well
CPT-1	Cone Penetrometer Test Location (Oak Walk)	HEB-2	Harza Exploratory Boring
Exploratory Trench	Exploratory Trench	SEM-1	SECOR Monitoring Well
Underground Storage Tank (removed)	Underground Storage Tank (removed)	AEGP-6	APEX Envirotech, Inc. Boring
WCEW-1	Woodward-Clyde Extraction Well	<b>SJC MW-T1</b>	SJC Temporary Monitoring Well (SNK Andante)
OB-6	Clayton Monitoring Well (OW) & Temporary Monitoring Well (OB)	▲	Paleo Streambed, Gravelly Areas
B-2	Clayton Boring (Ennis)	▲ ETL-5-6	Trench Soil Sample Location
CDP-10	Clayton Boring (Dunn)	MW-D1	Dunne Paints Monitoring Well
B-2	ERM Boring (G/OG)	HP-2	ASE Boring
MW-B1	Kozel Property Monitoring Well	BH-5	ASE Temporary Well
LFB-50-1	URS Geoprobe Soil Boring	ESC-MW-1	Environmental Strategies Corp Monitoring Well
URS-MW-3	URS Monitoring Well	HAB-4	Hageman-Aguilar, Inc. Soil Boring
RGA-B17	RGA Environmental Boring	▲ CPT-2	Cone Penetrometer Test (SCI)
Extraction Well	Extraction Well	▲ SB-2	Soil Boring (SCI)
		▲	Result of analysis of gasoline-range hydrocarbons in groundwater ( $\mu\text{g/L}$ ) (9/09)
		5000	Isocon of gasoline-range hydrocarbons in groundwater ( $\mu\text{g/L}$ )
		210 to 4999	Gasoline-range hydrocarbons 210 to 4999 $\mu\text{g/L}$
		>5000	Gasoline-range hydrocarbons >5000 $\mu\text{g/L}$

**ISOCONS OF GASOLINE-RANGE HYDROCARBONS IN GROUNDWATER FOR COMBINED OAK WALK & CELIS SITES (September 2009)**  
Oak Walk Site, Emeryville, California

FIG 25

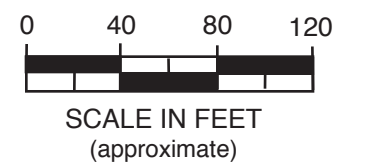
**The San Joaquin Company Inc.**

Project Number: 0004.0812  
Drawn by: GNM Date: 11/16/09



**Base Map:**  
This base map was prepared from various resources, including information provided by:

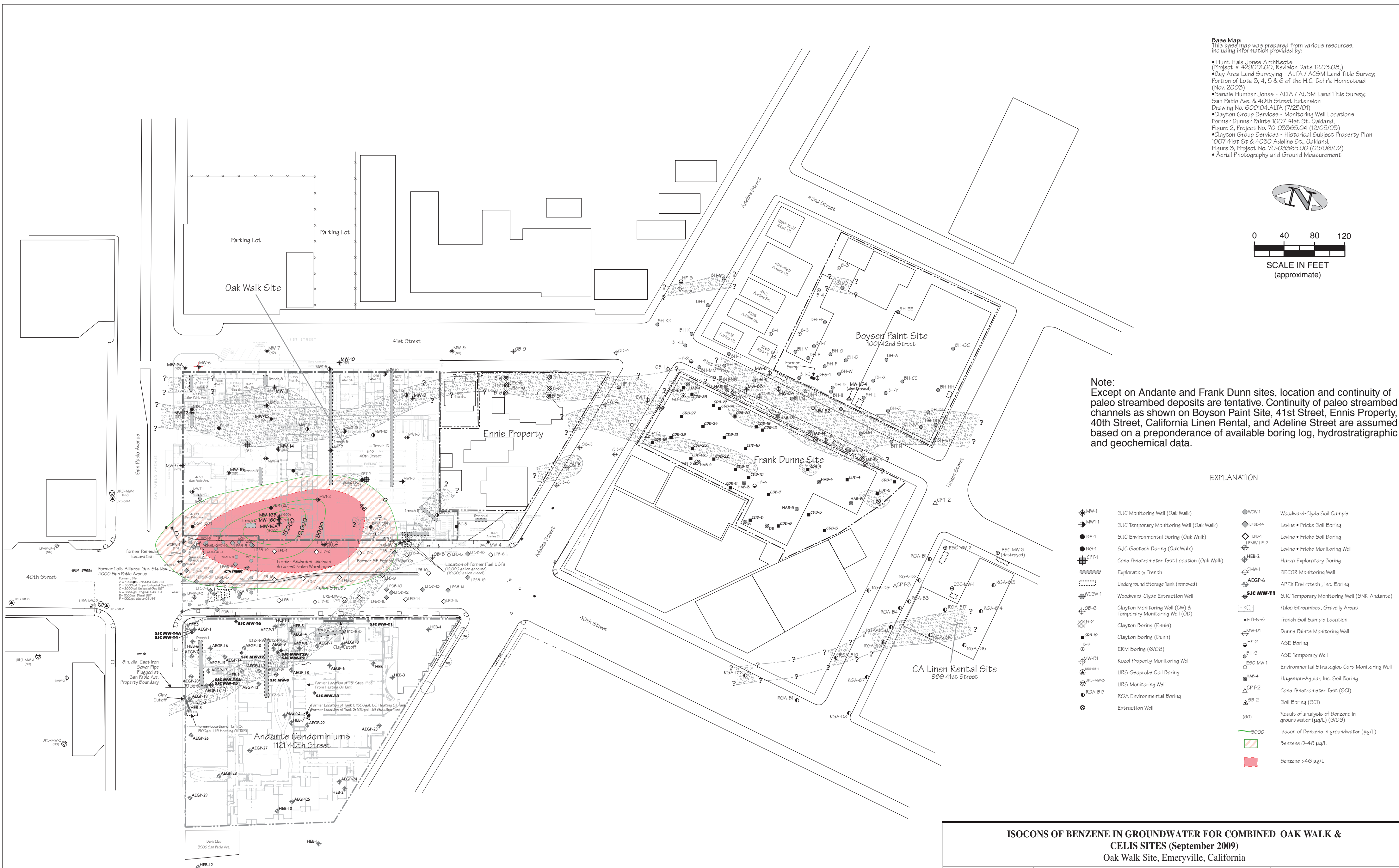
- Hunt Hale Jones Architects (Project # 42300100, Revision Date 12.03.08.)
- Bay Area Land Surveying - ALTA / ACSM Land Title Survey; Portion of Lots 3, 4, 5 & 6 of the H.C. Dohr's Homestead (Nov. 2003)
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- Clayton Group Services - Historical Subject Property Plan 1007 41st St. & 4050 Adeline St., Oakland, Figure 3, Project No. 70-03365.00 (09/06/02)
- Aerial Photography and Ground Measurement



**Note:**  
Except on Andante and Frank Dunn sites, location and continuity of paleo streambed deposits are tentative. Continuity of paleo streambed channels as shown on Boyson Paint Site, 41st Street, Ennis Property, 40th Street, California Linen Rental, and Adeline Street are assumed based on a preponderance of available boring log, hydrostratigraphic and geochemical data.

**EXPLANATION**

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>● MW-1 SJC Monitoring Well (Oak Walk)</li> <li>● MWT-1 SJC Temporary Monitoring Well (Oak Walk)</li> <li>● BE-1 SJC Environmental Boring (Oak Walk)</li> <li>● BG-1 SJC Geotech Boring (Oak Walk)</li> <li>⊕ CPT-1 Cone Penetrometer Test Location (Oak Walk)</li> <li>⊖ Exploratory Trench</li> <li>⊖ Underground Storage Tank (removed)</li> <li>⊖ WCEW-1 Woodward-Clyde Extraction Well</li> <li>⊖ OB-6 Clayton Monitoring Well (OW) &amp; Temporary Monitoring Well (OB)</li> <li>⊖ B-2 Clayton Boring (Ennis)</li> <li>⊖ CDB-10 Clayton Boring (Dunn)</li> <li>⊖ B-2 ERM Boring (G/OG)</li> <li>⊖ MW-B1 Kozel Property Monitoring Well</li> <li>⊖ URS-98-1 URS Geoprobe Soil Boring</li> <li>⊖ URS-MW-3 URS Monitoring Well</li> <li>⊖ RGA-B17 RGA Environmental Boring</li> <li>⊖ Extraction Well</li> </ul> | <ul style="list-style-type: none"> <li>● WCW-1 Woodward-Clyde Soil Sample</li> <li>⊖ LFSB-14 Levine &amp; Fricke Soil Boring</li> <li>⊖ LFB-1 Levine &amp; Fricke Soil Boring</li> <li>⊖ FMW-LF-2 Levine &amp; Fricke Monitoring Well</li> <li>⊖ HEB-2 Harza Exploratory Boring</li> <li>⊖ SEMW-1 SECOR Monitoring Well</li> <li>⊖ AEGP-6 APEX Envirotech, Inc. Boring</li> <li>⊖ SJC MW-T1 SJC Temporary Monitoring Well (SNK Andante)</li> <li>⊖ Paleo Streambed, Gravelly Areas</li> <li>⊖ ETI-S-6 Trench Soil Sample Location</li> <li>⊖ MW-D1 Dunner Paints Monitoring Well</li> <li>⊖ HP-2 ASE Boring</li> <li>⊖ BH-5 ASE Monitoring Well</li> <li>⊖ ESC-MW-1 Environmental Strategies Corp Monitoring Well</li> <li>⊖ HEB-4 Hageman-Aguilar, Inc. Soil Boring</li> <li>⊖ CPT-2 Cone Penetrometer Test (SCI)</li> <li>⊖ SB-2 Soil Boring (SCI)</li> <li>(90) Result of analysis of Benzene in groundwater (µg/L) (9/09)</li> <li>5000 Isocon of Benzene in groundwater (µg/L)</li> <li>Benzene 0-46 µg/L</li> <li>Benzene &gt;46 µg/L</li> </ul> |
|---|--|



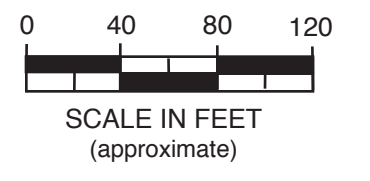
**ISOCONS OF BENZENE IN GROUNDWATER FOR COMBINED OAK WALK & CELIS SITES (September 2009)**  
Oak Walk Site, Emeryville, California

FIG 26	<b>The San Joaquin Company Inc.</b>	Project Number: 0004.0812
		Drawn by: GNM Date: 11/23/09



**Base Map:**  
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- Hunt Hale Jones Architects (Project # 42300100, Revision Date 12.03.08.)
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- Aerial Photography and Ground Measurement

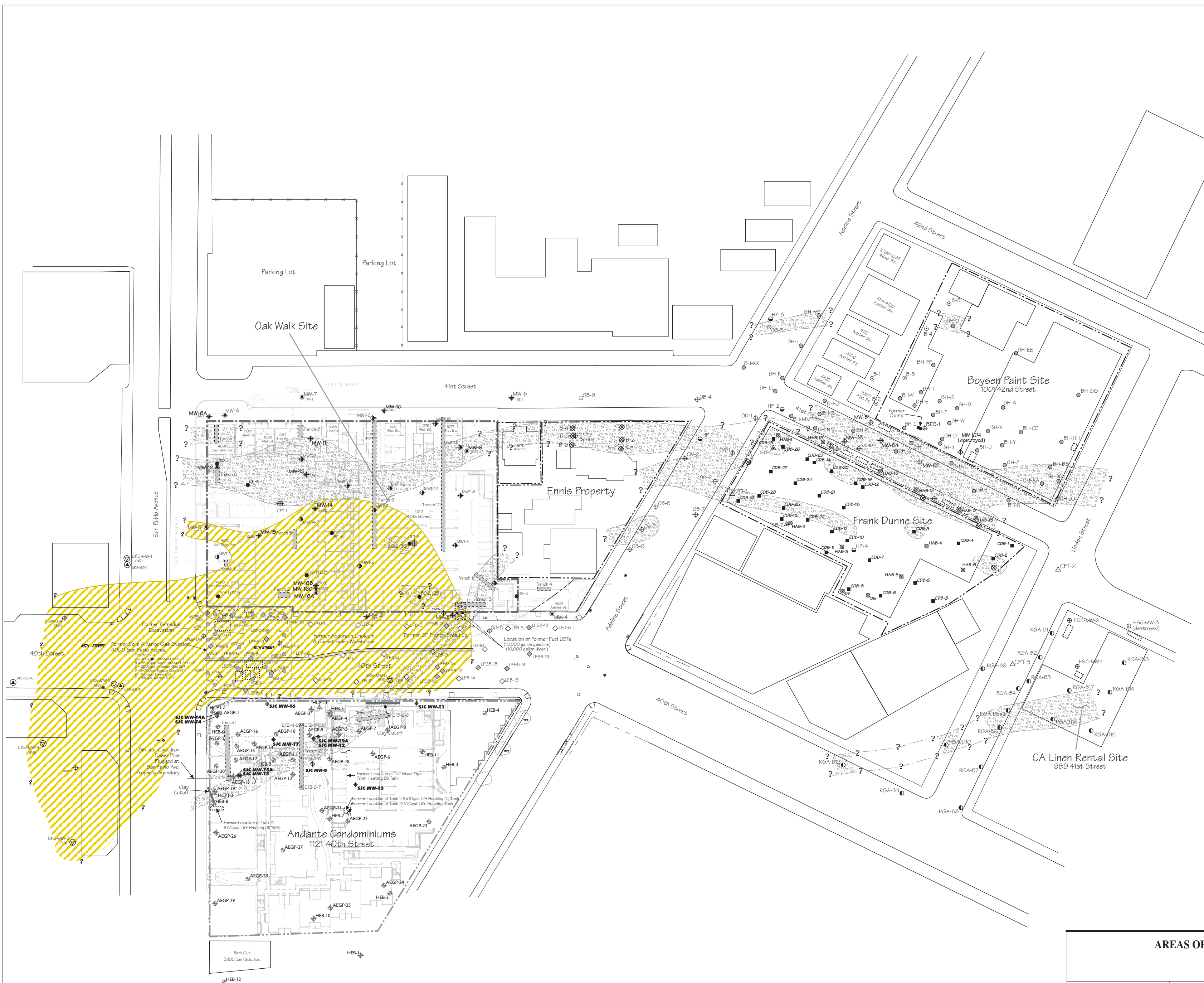


**Note:**  
Except on Andante and Frank Dunn sites, location and continuity of paleo streambed deposits are tentative. Continuity of paleo streambed channels as shown on Boyson Paint Site, 41st Street, Ennis Property, 40th Street, California Linen Rental, and Adeline Street are assumed based on a preponderance of available boring log, hydrostratigraphic and geochemical data.

**EXPLANATION**

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>● MW-1 SJC Monitoring Well (Oak Walk)</li> <li>● MWT-1 SJC Temporary Monitoring Well (Oak Walk)</li> <li>● BE-1 SJC Environmental Boring (Oak Walk)</li> <li>● BG-1 SJC Geotech Boring (Oak Walk)</li> <li>⊕ CPT-1 Cone Penetrometer Test Location (Oak Walk)</li> <li>⊖ Exploratory Trench</li> <li>⊖ Underground Storage Tank (removed)</li> <li>⊖ WCEW-1 Woodward-Clyde Extraction Well</li> <li>⊖ OB-6 Clayton Monitoring Well (OW) &amp; Temporary Monitoring Well (OB)</li> <li>⊖ B-2 Clayton Boring (Ennis)</li> <li>⊖ CDB-10 Clayton Boring (Dunn)</li> <li>⊖ B-2 ERM Boring (G/OG)</li> <li>⊖ MW-B1 Kozel Property Monitoring Well</li> <li>⊖ URS-99-1 URS Geoprobe Soil Boring</li> <li>⊖ URS-MW-3 URS Monitoring Well</li> <li>⊖ RGA-B17 RGA Environmental Boring</li> <li>⊖ Extraction Well</li> </ul> | <ul style="list-style-type: none"> <li>● WCW-1 Woodward-Clyde Soil Sample</li> <li>⊖ LFSB-14 Levine &amp; Fricke Soil Boring</li> <li>⊖ LFB-1 Levine &amp; Fricke Soil Boring</li> <li>⊖ FMW-LF-2 Levine &amp; Fricke Monitoring Well</li> <li>⊖ HEB-2 Harza Exploratory Boring</li> <li>⊖ SEMW-1 SECOR Monitoring Well</li> <li>⊖ AEGP-6 APEX Envirotech, Inc. Boring</li> <li>⊖ SJC MW-T1 SJC Temporary Monitoring Well (SNK Andante)</li> <li>⊖ Paleo Streambed, Gravelly Areas</li> <li>⊖ Trench Soil Sample Location</li> <li>⊖ ET1-S-6 Trench Soil Sample Location</li> <li>⊖ MW-D1 Dunne Paints Monitoring Well</li> <li>⊖ HP-2 ASE Boring</li> <li>⊖ BH-5 ASE Boring</li> <li>⊖ ESC-MW-1 Environmental Strategies Corp Monitoring Well</li> <li>⊖ HAB-4 Hageman-Aguilar, Inc. Soil Boring</li> <li>⊖ CPT-2 Cone Penetrometer Test (SCI)</li> <li>⊖ SB-2 Soil Boring (SCI)</li> </ul> |
|---|--|
- (66) Result of analysis of MTBE in groundwater (9/09)
- Area affected by MTBE at concentrations above the applicable ESL for groundwater
- Area affected by MTBE at concentrations below the applicable ESL for groundwater

**AREAS OF THE COMBINED OAK WALK & CELIS SITES AFFECTED BY MTBE IN GROUNDWATER (September 2009)**  
Oak Walk Site, Emeryville, California



## APPENDIX A

### Field Notes

**Field Notes September 22-24, 2009 <sup>1</sup>**

Oak Walk Site, Emeryville, California

Global ID: T06019705080

Well No.	Date	pH	Temperature °C	Conductivity µmhos/cm
WCEW-1	09/24/09	7.27	23.5	8500
		7.09	23.8	8510
		7.14	24.4	8770
		7.00	24.4	8370
MW-2	09/24/09	7.60	22.1	8000 <sup>3</sup>
MW-3	09/24/09	7.35	23.5	8470
		7.04	24.9	8760
		6.76	25.0	8170
		6.73	25.1	6420
		6.66	25.1	7680
		6.65	25.1	7930
MW-4	09/22/09	7.80	23.7	7850
		7.01	22.8	6280
		6.87	22.6	6329
MW-5	09/24/09	7.97	21.5	5250
		7.02	21.2	5190
		7.00	21.2	5190
MW-6A	09/22/09	8.50	21.7	2420
		7.46	21.4	2240
		7.19	21.4	2250
		7.10	21.1	2390
		6.99	20.9	2430
MW-7	09/22/09	6.83	22.9	4390
		8.40	22.6	5480
		7.05	22.5	4830
		6.90	22.3	4170
		6.85	22.1	4180
MW-8	09/22/09	6.88	22.3	6560
		6.80	21.9	6390
		6.85	22.6	6080
		6.82	21.4	6030
MW-9	09/24/09	7.10	19.8	5460
		7.30	19.7	5970
		7.01	19.8	5650
		6.97	19.7	5630

Well No.	Date	pH	Temperature °C	Conductivity µmhos/cm
MW-10	09/22/09	7.16	30.1	4450
		6.93	20.3	4690
		6.89	20.2	4910
		6.89	20.2	4930
MW-11	09/24/09	7.39	18.6	5280
		7.20	18.6	5300
		7.12	18.6	5310
		7.09	18.5	5320
MW-12	09/22/09	8.21	20.9	5759
		7.28	20.5	4790
		7.15	20.5	4650
MW-13	09/22/09	7.23	19.5	5250
		7.12	19.3	5190
		7.05	19.1	5130
MW-14	09/22/09	7.32	22.1	8130
		7.00	21.2	7240
		6.84	20.7	7210
		6.86	20.0	7150
MW-15	09/22/09	7.24	20.9	9200
		6.94	20.4	8310
		6.72	19.8	9740
		6.74	19.7	10040
MW-16A	09/22/09	7.16	22.5	1319 <sup>3</sup>
		6.98	22.4	1261
MW-16B	09/22/09	7.20	21.8	1275
		6.88	21.5	1252
		6.85	20.9	1245
		6.88	20.9	1211 <sup>3</sup>
MW-16C	09/22/09	8.96	21.9	1439 <sup>3</sup>

**Notes:**

1. Except as noted, all sampled wells purged a minimum of 15 gallons
2. n/s = Not Sampled
3. Well pumped dry before 15 gallons purged

## APPENDIX B

### Waste Manifest



4

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

**UNIFORM HAZARDOUS WASTE MANIFEST**

1. Generator ID Number: **C A C 0 0 2 6 4 6 9 2 5**

2. Page 1 of 1

3. Emergency Response Phone: **(800) 424-9300**

4. Manifest Tracking Number: **005921425 JJK**

5. Generator's Name and Mailing Address: **BAYROCK OAKS LLC  
1300 CLAY ST STE 620  
OAKLAND**

Generator's Phone: **510 873-8880** CA **94612**

Generator's Site Address (if different than mailing address): **4080 SAN PABLO AVE  
EMERYVILLE** CA **94608**

6. Transporter 1 Company Name: **ASBURY ENVIRONMENTAL SERVICES**

U.S. EPA ID Number: **C A D 0 2 8 2 7 7 0 3 6**

7. Transporter 2 Company Name:

U.S. EPA ID Number:

8. Designated Facility Name and Site Address: **DEMINNO / KERDOON  
2000 NORTH ALAMEDA STREET  
COMPTON** CA **90222**

U.S. EPA ID Number: **C A T 0 6 0 0 1 3 3 5 2**

Facility's Phone: **810 837-7100**

No.	U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
1.	NON-HAZARDOUS WASTE, LIQUID (OILY WATER)	001	TT	300	G	223	
2.							
3.							
4.							

14. Special Handling Instructions and Additional Information: **HAZARDOUS WASTE - ADDITIONAL EPA CODES: 081, NONE APPROPRIATE**

**PERSONAL PROTECTIVE EQUIPMENT**

**POB A080102021**

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 49 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Officer's Printed/Typed Name: **S. WATKINS**

Signature: *[Signature]*

Month Day Year: **11 02 09**

16. International Shipments:  Import to U.S.  Export from U.S.

Port of entry/exit: **[Signature]**

Date leaving U.S.: **11 02 09**

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: **GABRIEL ARNUDA**

Signature: *[Signature]*

Month Day Year: **11 02 09**

18. Discrepancy

18a. Discrepancy Indication Space:  Quantity  Type  Residue  Partial Rejection  Full Rejection

18b. Alternate Facility (or Generator):

Manifest Reference Number:

U.S. EPA ID Number:

18c. Signature of Alternate Facility (or Generator):

Month Day Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed Name: **JOPAL P. SVAY**

Signature: *[Signature]*

Month Day Year: **11 02 09**

GENERATOR  
TRANSPORTER  
DESIGNATED FACILITY

## APPENDIX C

### Certificates of Analysis

## ANALYTICAL REPORT

Job Number: 720-22841-1

Job Description: Bay Rock Oak Walk Emeryville

For:

San Joaquin Company Inc  
1120 Hollywood Ave Suite 3  
Oakland, CA 94602-1459  
Attention: Mr. Dai Watkins

*Surinder Sidhu*

Approved for release.  
Surinder Sidhu  
Customer Service Manager  
10/5/2009 11:25 AM

---

Surinder Sidhu  
Customer Service Manager  
surinder.sidhu@testamericainc.com  
10/05/2009

CA ELAP Certification # 2496

The Chain(s) of Custody are included and are an integral part of this report.

The report shall not be reproduced except in full, without the written approval of the laboratory. The client, by accepting this report, also agrees not to alter any reports whether in the hard copy or electronic format and to use reasonable efforts to preserve the reports in the form and substance originally provided by TestAmerica.

A trip blank is required to be provided for volatile analyses. If trip blank results are not included in the report, either the trip blank was not submitted or requested to be analyzed.

**TestAmerica Laboratories, Inc.**

TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566

Tel (925) 484-1919 Fax (925) 600-3002 [www.testamericainc.com](http://www.testamericainc.com)

**Job Narrative**  
**720-J22841-1**

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

Method(s) 8260B/CA\_LUFTMS: The Gasoline Range Organics (GRO) concentration reported for the following sample(s) is due to the presence of discrete peaks: MW-16C (720-22841-18).

No other analytical or quality issues were noted.

**GC Semi VOA**

Method(s) 8015B: Capric acid surrogate recovery for the following sample(s) was outside control limits: MW-16A (720-22841-16). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015B: Capric acid surrogate recovery for the following sample(s) was outside control limits: WCEW-1 (720-22841-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.

## EXECUTIVE SUMMARY - Detections

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>720-22841-1</b>	<b>WCEW-1</b>				
Benzene		1.5	0.50	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		1400	50	ug/L	8260B/CA_LUFTMS
MTBE		150	0.50	ug/L	8260B/CA_LUFTMS
Ethylbenzene		1.2	0.50	ug/L	8260B/CA_LUFTMS
TBA		21	5.0	ug/L	8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i>					
Diesel Range Organics [C10-C28]		1600	63	ug/L	8015B
Mineral Spirit Range Organics [C9-C13]		390	63	ug/L	8015B
<b>720-22841-2</b>	<b>MW-2</b>				
Benzene		1500	10	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		4900	1000	ug/L	8260B/CA_LUFTMS
MTBE		47	10	ug/L	8260B/CA_LUFTMS
Ethylbenzene		520	10	ug/L	8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i>					
Diesel Range Organics [C10-C28]		400	64	ug/L	8015B
Mineral Spirit Range Organics [C9-C13]		350	64	ug/L	8015B
<b>720-22841-3</b>	<b>MW-3</b>				
MTBE		2.4	0.50	ug/L	8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i>					
Diesel Range Organics [C10-C28]		110	63	ug/L	8015B
<b>720-22841-5</b>	<b>MW-5</b>				
Gasoline Range Organics (GRO)-C5-C12		430	50	ug/L	8260B/CA_LUFTMS
MTBE		0.77	0.50	ug/L	8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i>					
Diesel Range Organics [C10-C28]		220	63	ug/L	8015B
Mineral Spirit Range Organics [C9-C13]		250	63	ug/L	8015B
<b>720-22841-9</b>	<b>MW-9</b>				
Gasoline Range Organics (GRO)-C5-C12		190	50	ug/L	8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i>					
Diesel Range Organics [C10-C28]		78	63	ug/L	8015B

## EXECUTIVE SUMMARY - Detections

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>720-22841-11</b>	<b>MW-11</b>				
Gasoline Range Organics (GRO)-C5-C12		70	50	ug/L	8260B/CA_LUFTMS
<b>720-22841-13</b>	<b>MW-13</b>				
Gasoline Range Organics (GRO)-C5-C12		130	50	ug/L	8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i>					
Diesel Range Organics [C10-C28]		66	63	ug/L	8015B
<b>720-22841-14</b>	<b>MW-14</b>				
Gasoline Range Organics (GRO)-C5-C12		68	50	ug/L	8260B/CA_LUFTMS
MTBE		13	0.50	ug/L	8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i>					
Diesel Range Organics [C10-C28]		72	64	ug/L	8015B
<b>720-22841-15</b>	<b>MW-15</b>				
Gasoline Range Organics (GRO)-C5-C12		51	50	ug/L	8260B/CA_LUFTMS
MTBE		2.6	0.50	ug/L	8260B/CA_LUFTMS
<b>720-22841-16</b>	<b>MW-16A</b>				
Benzene		18000	50	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		64000	5000	ug/L	8260B/CA_LUFTMS
Toluene		2500	50	ug/L	8260B/CA_LUFTMS
Xylenes, Total		11000	100	ug/L	8260B/CA_LUFTMS
MTBE		830	50	ug/L	8260B/CA_LUFTMS
Ethylbenzene		3000	50	ug/L	8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i>					
Diesel Range Organics [C10-C28]		2400	63	ug/L	8015B
Mineral Spirit Range Organics [C9-C13]		4100	63	ug/L	8015B

## EXECUTIVE SUMMARY - Detections

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
<b>720-22841-17</b>	<b>MW-16B</b>				
Benzene		1600	10	ug/L	8260B/CA_LUFTMS
Gasoline Range Organics (GRO)-C5-C12		4000	1000	ug/L	8260B/CA_LUFTMS
Toluene		18	10	ug/L	8260B/CA_LUFTMS
Xylenes, Total		170	20	ug/L	8260B/CA_LUFTMS
MTBE		500	10	ug/L	8260B/CA_LUFTMS
Ethylbenzene		150	10	ug/L	8260B/CA_LUFTMS
<i>Silica Gel Cleanup</i>					
Diesel Range Organics [C10-C28]		410	64	ug/L	8015B
Mineral Spirit Range Organics [C9-C13]		480	64	ug/L	8015B
<b>720-22841-18</b>	<b>MW-16C</b>				
Gasoline Range Organics (GRO)-C5-C12		270	250	ug/L	8260B/CA_LUFTMS
MTBE		230	2.5	ug/L	8260B/CA_LUFTMS

## METHOD SUMMARY

Client: San Joaquin Company Inc

Job Number: 720-22841-1

<b>Description</b>	<b>Lab Location</b>	<b>Method</b>	<b>Preparation Method</b>
<b>Matrix: Water</b>			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B/CA_LUFTMS	
Purge and Trap	TAL SF		SW846 5030B
Diesel Range Organics (DRO) (GC)	TAL SF	SW846 8015B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL SF		SW846 3510C SGC

### Lab References:

TAL SF = TestAmerica San Francisco

### Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.



## SAMPLE SUMMARY

Client: San Joaquin Company Inc

Job Number: 720-22841-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
720-22841-1	WCEW-1	Water	09/24/2009 1126	09/25/2009 1204
720-22841-2	MW-2	Water	09/24/2009 1333	09/25/2009 1204
720-22841-3	MW-3	Water	09/24/2009 1045	09/25/2009 1204
720-22841-4	MW-4	Water	09/24/2009 1312	09/25/2009 1204
720-22841-5	MW-5	Water	09/24/2009 1201	09/25/2009 1204
720-22841-6	MW-6A	Water	09/24/2009 1235	09/25/2009 1204
720-22841-7	MW-7	Water	09/24/2009 1020	09/25/2009 1204
720-22841-8	MW-8	Water	09/24/2009 1105	09/25/2009 1204
720-22841-9	MW-9	Water	09/24/2009 0926	09/25/2009 1204
720-22841-10	MW-10	Water	09/24/2009 1133	09/25/2009 1204
720-22841-11	MW-11	Water	09/24/2009 1004	09/25/2009 1204
720-22841-12	MW-12	Water	09/22/2009 1507	09/25/2009 1204
720-22841-13	MW-13	Water	09/22/2009 1603	09/25/2009 1204
720-22841-14	MW-14	Water	09/22/2009 1635	09/25/2009 1204
720-22841-15	MW-15	Water	09/22/2009 1700	09/25/2009 1204
720-22841-16	MW-16A	Water	09/22/2009 1844	09/25/2009 1204
720-22841-17	MW-16B	Water	09/22/2009 1815	09/25/2009 1204
720-22841-18	MW-16C	Water	09/22/2009 1737	09/25/2009 1204

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: WCEW-1

Lab Sample ID: 720-22841-1

Date Sampled: 09/24/2009 1126

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58517      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09280  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/28/2009 1500      Final Weight/Volume: 40 mL  
Date Prepared: 09/28/2009 1500

Analyte	Result (ug/L)	Qualifier	RL
Benzene	1.5		0.50
Gasoline Range Organics (GRO)-C5-C12	1400		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	150		0.50
Ethylbenzene	1.2		0.50
TAME	ND		0.50
TBA	21		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	88		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-2

Lab Sample ID: 720-22841-2

Date Sampled: 09/24/2009 1333

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58760      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09290  
Dilution: 20      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/29/2009 1950      Final Weight/Volume: 40 mL  
Date Prepared: 09/29/2009 1950

Analyte	Result (ug/L)	Qualifier	RL
Benzene	1500		10
Gasoline Range Organics (GRO)-C5-C12	4900		1000
Toluene	ND		10
Xylenes, Total	ND		20
MTBE	47		10
Ethylbenzene	520		10
TAME	ND		10
TBA	ND		100
DIPE	ND		20
Ethyl-tert-butyl ether	ND		10

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	86		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-3

Lab Sample ID: 720-22841-3

Date Sampled: 09/24/2009 1045

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58760      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09290  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/29/2009 1926      Final Weight/Volume: 40 mL  
Date Prepared: 09/29/2009 1926

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	2.4		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	94		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-4

Lab Sample ID: 720-22841-4

Date Sampled: 09/24/2009 1312

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58517      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09280  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/28/2009 1614      Final Weight/Volume: 40 mL  
Date Prepared: 09/28/2009 1614

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-5

Lab Sample ID: 720-22841-5

Date Sampled: 09/24/2009 1201

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58517      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09280  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/28/2009 1638      Final Weight/Volume: 40 mL  
Date Prepared: 09/28/2009 1638

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	430		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	0.77		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-6A

Lab Sample ID: 720-22841-6

Date Sampled: 09/24/2009 1235

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58517      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09280  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/28/2009 1841      Final Weight/Volume: 40 mL  
Date Prepared: 09/28/2009 1841

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-7

Lab Sample ID: 720-22841-7

Date Sampled: 09/24/2009 1020

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58517      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09280  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/28/2009 1906      Final Weight/Volume: 40 mL  
Date Prepared: 09/28/2009 1906

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		67 - 130



**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-8

Lab Sample ID: 720-22841-8

Date Sampled: 09/24/2009 1105

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58517      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09280  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/28/2009 1929      Final Weight/Volume: 40 mL  
Date Prepared: 09/28/2009 1929

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-9

Lab Sample ID: 720-22841-9

Date Sampled: 09/24/2009 0926

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58517      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09280  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/28/2009 1954      Final Weight/Volume: 40 mL  
Date Prepared: 09/28/2009 1954

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	190		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	90		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-10

Lab Sample ID: 720-22841-10

Date Sampled: 09/24/2009 1133

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58517      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09280  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/28/2009 2020      Final Weight/Volume: 40 mL  
Date Prepared: 09/28/2009 2020

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-11

Lab Sample ID: 720-22841-11

Date Sampled: 09/24/2009 1004

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58517      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09280  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/28/2009 2045      Final Weight/Volume: 40 mL  
Date Prepared: 09/28/2009 2045

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	70		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID: MW-12**

Lab Sample ID: 720-22841-12

Date Sampled: 09/22/2009 1507

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58760      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09290  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/29/2009 2154      Final Weight/Volume: 40 mL  
Date Prepared: 09/29/2009 2154

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-13

Lab Sample ID: 720-22841-13

Date Sampled: 09/22/2009 1603

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58517      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09280  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/28/2009 2109      Final Weight/Volume: 40 mL  
Date Prepared: 09/28/2009 2109

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	130		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID:** MW-14

Lab Sample ID: 720-22841-14

Client Matrix: Water

Date Sampled: 09/22/2009 1635

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58517      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09280  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/28/2009 2134      Final Weight/Volume: 40 mL  
Date Prepared: 09/28/2009 2134

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	68		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	13		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID: MW-15**

Lab Sample ID: 720-22841-15

Date Sampled: 09/22/2009 1700

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58517      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09280  
Dilution: 1.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/28/2009 2159      Final Weight/Volume: 40 mL  
Date Prepared: 09/28/2009 2159

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	51		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	2.6		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		67 - 130



**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID: MW-16A**

Lab Sample ID: 720-22841-16

Date Sampled: 09/22/2009 1844

Client Matrix: Water

Date Received: 09/25/2009 1204

**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method:	8260B/CA_LUFTMS	Analysis Batch: 720-58760	Instrument ID:	SAT 3900C
Preparation:	5030B		Lab File ID:	e:\data\200909\09290
Dilution:	100		Initial Weight/Volume:	40 mL
Date Analyzed:	09/29/2009 2218		Final Weight/Volume:	40 mL
Date Prepared:	09/29/2009 2218			

Analyte	Result (ug/L)	Qualifier	RL
Benzene	18000		50
Gasoline Range Organics (GRO)-C5-C12	64000		5000
Toluene	2500		50
Xylenes, Total	11000		100
MTBE	830		50
Ethylbenzene	3000		50
TAME	ND		50
TBA	ND		500
DIPE	ND		100
Ethyl-tert-butyl ether	ND		50

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	80		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID: MW-16B**

Lab Sample ID: 720-22841-17

Date Sampled: 09/22/2009 1815

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58760      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09290  
Dilution: 20      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/29/2009 2243      Final Weight/Volume: 40 mL  
Date Prepared: 09/29/2009 2243

Analyte	Result (ug/L)	Qualifier	RL
Benzene	1600		10
Gasoline Range Organics (GRO)-C5-C12	4000		1000
Toluene	18		10
Xylenes, Total	170		20
MTBE	500		10
Ethylbenzene	150		10
TAME	ND		10
TBA	ND		100
DIPE	ND		20
Ethyl-tert-butyl ether	ND		10

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	88		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID: MW-16C**

Lab Sample ID: 720-22841-18

Date Sampled: 09/22/2009 1737

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8260B/CA\_LUFTMS Volatile Organic Compounds by GC/MS**

Method: 8260B/CA\_LUFTMS      Analysis Batch: 720-58760      Instrument ID: SAT 3900C  
Preparation: 5030B      Lab File ID: e:\data\200909\09290  
Dilution: 5.0      Initial Weight/Volume: 40 mL  
Date Analyzed: 09/29/2009 2308      Final Weight/Volume: 40 mL  
Date Prepared: 09/29/2009 2308

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		2.5
Gasoline Range Organics (GRO)-C5-C12	270		250
Toluene	ND		2.5
Xylenes, Total	ND		5.0
MTBE	230		2.5
Ethylbenzene	ND		2.5
TAME	ND		2.5
TBA	ND		25
DIPE	ND		5.0
Ethyl-tert-butyl ether	ND		2.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		67 - 130

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID:** WCEW-1

Lab Sample ID: 720-22841-1

Date Sampled: 09/24/2009 1126

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method:	8015B	Analysis Batch: 720-58713	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	990 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0220		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

---

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	1600		63
Mineral Spirit Range Organics [C9-C13]	390		63

---

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	8	X	0 - 5
p-Terphenyl	73		31 - 150

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-2

Lab Sample ID: 720-22841-2

Date Sampled: 09/24/2009 1333

Client Matrix: Water

Date Received: 09/25/2009 1204

8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup

Method:	8015B	Analysis Batch: 720-58713	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	980 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0246		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	400		64
Mineral Spirit Range Organics [C9-C13]	350		64

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	1		0 - 5
p-Terphenyl	83		31 - 150

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID:** MW-3

Lab Sample ID: 720-22841-3

Date Sampled: 09/24/2009 1045

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method:	8015B	Analysis Batch: 720-58713	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	990 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0313		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

---

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	110		63
Mineral Spirit Range Organics [C9-C13]	ND		63

---

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	82		31 - 150

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID:** MW-4

Lab Sample ID: 720-22841-4

Date Sampled: 09/24/2009 1312

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method:	8015B	Analysis Batch: 720-58713	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	990 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0340		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

---

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		63
Mineral Spirit Range Organics [C9-C13]	ND		63

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Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	79		31 - 150

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID: MW-5**

Lab Sample ID: 720-22841-5

Date Sampled: 09/24/2009 1201

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method:	8015B	Analysis Batch: 720-58635	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58575	Initial Weight/Volume:	990 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	09/30/2009 1415		Injection Volume:	1 uL
Date Prepared:	09/29/2009 2026		Result Type:	PRIMARY

---

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	220		63
Mineral Spirit Range Organics [C9-C13]	250		63

---

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	85		31 - 150



**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID: MW-6A**

Lab Sample ID: 720-22841-6

Date Sampled: 09/24/2009 1235

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method:	8015B	Analysis Batch: 720-58713	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	980 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0407		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

---

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		64
Mineral Spirit Range Organics [C9-C13]	ND		64

---

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	78		31 - 150

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-7

Lab Sample ID: 720-22841-7

Date Sampled: 09/24/2009 1020

Client Matrix: Water

Date Received: 09/25/2009 1204

8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup

Method:	8015B	Analysis Batch: 720-58713	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	990 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0434		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		63
Mineral Spirit Range Organics [C9-C13]	ND		63

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	78		31 - 150

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID: MW-8**

Lab Sample ID: 720-22841-8

Date Sampled: 09/24/2009 1105

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method:	8015B	Analysis Batch: 720-58713	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	990 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0501		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

---

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		63
Mineral Spirit Range Organics [C9-C13]	ND		63

---

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	73		31 - 150

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-9

Lab Sample ID: 720-22841-9

Date Sampled: 09/24/2009 0926

Client Matrix: Water

Date Received: 09/25/2009 1204

8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup

Method:	8015B	Analysis Batch: 720-58713	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	990 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0528		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	78		63
Mineral Spirit Range Organics [C9-C13]	ND		63

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	77		31 - 150

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID:** MW-10

Lab Sample ID: 720-22841-10

Client Matrix: Water

Date Sampled: 09/24/2009 1133

Date Received: 09/25/2009 1204

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**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method:	8015B	Analysis Batch: 720-58713	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	980 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0554		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

---

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		64
Mineral Spirit Range Organics [C9-C13]	ND		64

---

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	79		31 - 150

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-11

Lab Sample ID: 720-22841-11

Date Sampled: 09/24/2009 1004

Client Matrix: Water

Date Received: 09/25/2009 1204

8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup

Method:	8015B	Analysis Batch: 720-58713	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	980 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0622		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		64
Mineral Spirit Range Organics [C9-C13]	ND		64

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	77		31 - 150

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID: MW-12**

Lab Sample ID: 720-22841-12

Date Sampled: 09/22/2009 1507

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method:	8015B	Analysis Batch: 720-58712	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	980 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0340		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		64
Mineral Spirit Range Organics [C9-C13]	ND		64

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	83		31 - 150

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-13

Lab Sample ID: 720-22841-13

Date Sampled: 09/22/2009 1603

Client Matrix: Water

Date Received: 09/25/2009 1204

8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup

Method:	8015B	Analysis Batch: 720-58712	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	990 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0407		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	66		63
Mineral Spirit Range Organics [C9-C13]	ND		63

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	80		31 - 150



**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID:** MW-14

Lab Sample ID: 720-22841-14

Date Sampled: 09/22/2009 1635

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method:	8015B	Analysis Batch: 720-58712	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	980 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0434		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

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Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	72		64
Mineral Spirit Range Organics [C9-C13]	ND		64

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Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	1		0 - 5
p-Terphenyl	73		31 - 150

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID: MW-15**

Lab Sample ID: 720-22841-15

Date Sampled: 09/22/2009 1700

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method:	8015B	Analysis Batch: 720-58712	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	980 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0501		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

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Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		64
Mineral Spirit Range Organics [C9-C13]	ND		64

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Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	86		31 - 150

Client: San Joaquin Company Inc

Job Number: 720-22841-1

Client Sample ID: MW-16A

Lab Sample ID: 720-22841-16

Date Sampled: 09/22/2009 1844

Client Matrix: Water

Date Received: 09/25/2009 1204

8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup

Method:	8015B	Analysis Batch: 720-58712	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	990 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0528		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	2400		63
Mineral Spirit Range Organics [C9-C13]	4100		63

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	6	X	0 - 5
p-Terphenyl	79		31 - 150

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID: MW-16B**

Lab Sample ID: 720-22841-17

Date Sampled: 09/22/2009 1815

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method:	8015B	Analysis Batch: 720-58712	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58670	Initial Weight/Volume:	970 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	10/02/2009 0554		Injection Volume:	1 uL
Date Prepared:	09/30/2009 1318		Result Type:	PRIMARY

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Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	410		64
Mineral Spirit Range Organics [C9-C13]	480		64

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Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	86		31 - 150

**Analytical Data**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Client Sample ID: MW-16C**

Lab Sample ID: 720-22841-18

Date Sampled: 09/22/2009 1737

Client Matrix: Water

Date Received: 09/25/2009 1204

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**8015B Diesel Range Organics (DRO) (GC)-Silica Gel Cleanup**

Method:	8015B	Analysis Batch: 720-58635	Instrument ID:	CHDRO5
Preparation:	3510C SGC	Prep Batch: 720-58575	Initial Weight/Volume:	990 mL
Dilution:	1.0		Final Weight/Volume:	5 mL
Date Analyzed:	09/30/2009 1442		Injection Volume:	1 uL
Date Prepared:	09/29/2009 2026		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		63
Mineral Spirit Range Organics [C9-C13]	ND		63

Surrogate	%Rec	Qualifier	Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	56		31 - 150

## DATA REPORTING QUALIFIERS

Client: San Joaquin Company Inc

Job Number: 720-22841-1

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
GC/MS VOA		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
GC Semi VOA		
	X	Surrogate exceeds the control limits

## Quality Control Results

Client: San Joaquin Company Inc

Job Number: 720-22841-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:720-58517</b>					
LCS 720-58517/2	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-58517/1	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-58517/3	Method Blank	T	Water	8260B/CA_LUFT	
720-22841-1	WCEW-1	T	Water	8260B/CA_LUFT	
720-22841-4	MW-4	T	Water	8260B/CA_LUFT	
720-22841-5	MW-5	T	Water	8260B/CA_LUFT	
720-22841-6	MW-6A	T	Water	8260B/CA_LUFT	
720-22841-7	MW-7	T	Water	8260B/CA_LUFT	
720-22841-8	MW-8	T	Water	8260B/CA_LUFT	
720-22841-9	MW-9	T	Water	8260B/CA_LUFT	
720-22841-10	MW-10	T	Water	8260B/CA_LUFT	
720-22841-11	MW-11	T	Water	8260B/CA_LUFT	
720-22841-A-12 MSMS	Matrix Spike	T	Water	8260B/CA_LUFT	
720-22841-A-12 MSDMSD	Matrix Spike Duplicate	T	Water	8260B/CA_LUFT	
720-22841-13	MW-13	T	Water	8260B/CA_LUFT	
720-22841-14	MW-14	T	Water	8260B/CA_LUFT	
720-22841-15	MW-15	T	Water	8260B/CA_LUFT	
<b>Analysis Batch:720-58760</b>					
LCS 720-58760/2	Lab Control Sample	T	Water	8260B/CA_LUFT	
LCSD 720-58760/1	Lab Control Sample Duplicate	T	Water	8260B/CA_LUFT	
MB 720-58760/3	Method Blank	T	Water	8260B/CA_LUFT	
720-22841-2	MW-2	T	Water	8260B/CA_LUFT	
720-22841-2MS	Matrix Spike	T	Water	8260B/CA_LUFT	
720-22841-2MSD	Matrix Spike Duplicate	T	Water	8260B/CA_LUFT	
720-22841-3	MW-3	T	Water	8260B/CA_LUFT	
720-22841-12	MW-12	T	Water	8260B/CA_LUFT	
720-22841-16	MW-16A	T	Water	8260B/CA_LUFT	
720-22841-17	MW-16B	T	Water	8260B/CA_LUFT	
720-22841-18	MW-16C	T	Water	8260B/CA_LUFT	

**Report Basis**

T = Total

## Quality Control Results

Client: San Joaquin Company Inc

Job Number: 720-22841-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Prep Batch: 720-58575</b>					
LCS 720-58575/2-A	Lab Control Sample	A	Water	3510C SGC	
LCSD 720-58575/3-A	Lab Control Sample Duplicate	A	Water	3510C SGC	
MB 720-58575/1-A	Method Blank	A	Water	3510C SGC	
720-22841-5	MW-5	A	Water	3510C SGC	
720-22841-18	MW-16C	A	Water	3510C SGC	
<b>Analysis Batch:720-58635</b>					
LCS 720-58575/2-A	Lab Control Sample	A	Water	8015B	720-58575
LCSD 720-58575/3-A	Lab Control Sample Duplicate	A	Water	8015B	720-58575
MB 720-58575/1-A	Method Blank	A	Water	8015B	720-58575
720-22841-5	MW-5	A	Water	8015B	720-58575
720-22841-18	MW-16C	A	Water	8015B	720-58575
<b>Prep Batch: 720-58670</b>					
LCS 720-58670/2-A	Lab Control Sample	A	Water	3510C SGC	
LCSD 720-58670/3-A	Lab Control Sample Duplicate	A	Water	3510C SGC	
MB 720-58670/1-A	Method Blank	A	Water	3510C SGC	
720-22841-1	WCEW-1	A	Water	3510C SGC	
720-22841-2	MW-2	A	Water	3510C SGC	
720-22841-3	MW-3	A	Water	3510C SGC	
720-22841-4	MW-4	A	Water	3510C SGC	
720-22841-6	MW-6A	A	Water	3510C SGC	
720-22841-7	MW-7	A	Water	3510C SGC	
720-22841-8	MW-8	A	Water	3510C SGC	
720-22841-9	MW-9	A	Water	3510C SGC	
720-22841-10	MW-10	A	Water	3510C SGC	
720-22841-11	MW-11	A	Water	3510C SGC	
720-22841-12	MW-12	A	Water	3510C SGC	
720-22841-13	MW-13	A	Water	3510C SGC	
720-22841-14	MW-14	A	Water	3510C SGC	
720-22841-15	MW-15	A	Water	3510C SGC	
720-22841-16	MW-16A	A	Water	3510C SGC	
720-22841-17	MW-16B	A	Water	3510C SGC	
<b>Analysis Batch:720-58712</b>					
720-22841-12	MW-12	A	Water	8015B	720-58670
720-22841-13	MW-13	A	Water	8015B	720-58670
720-22841-14	MW-14	A	Water	8015B	720-58670
720-22841-15	MW-15	A	Water	8015B	720-58670
720-22841-16	MW-16A	A	Water	8015B	720-58670
720-22841-17	MW-16B	A	Water	8015B	720-58670



## Quality Control Results

Client: San Joaquin Company Inc

Job Number: 720-22841-1

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC Semi VOA</b>					
<b>Analysis Batch:720-58713</b>					
LCS 720-58670/2-A	Lab Control Sample	A	Water	8015B	720-58670
LCSD 720-58670/3-A	Lab Control Sample Duplicate	A	Water	8015B	720-58670
MB 720-58670/1-A	Method Blank	A	Water	8015B	720-58670
720-22841-1	WCEW-1	A	Water	8015B	720-58670
720-22841-2	MW-2	A	Water	8015B	720-58670
720-22841-3	MW-3	A	Water	8015B	720-58670
720-22841-4	MW-4	A	Water	8015B	720-58670
720-22841-6	MW-6A	A	Water	8015B	720-58670
720-22841-7	MW-7	A	Water	8015B	720-58670
720-22841-8	MW-8	A	Water	8015B	720-58670
720-22841-9	MW-9	A	Water	8015B	720-58670
720-22841-10	MW-10	A	Water	8015B	720-58670
720-22841-11	MW-11	A	Water	8015B	720-58670

#### Report Basis

A = Silica Gel Cleanup

## Quality Control Results

Client: San Joaquin Company Inc

Job Number: 720-22841-1

### Method Blank - Batch: 720-58517

Lab Sample ID: MB 720-58517/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/28/2009 1320  
Date Prepared: 09/28/2009 1320

Analysis Batch: 720-58517  
Prep Batch: N/A  
Units: ug/L

### Method: 8260B/CA\_LUFTMS Preparation: 5030B

Instrument ID: Varian 3900C  
Lab File ID: e:\data\200909\092809\mb-wa  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50
Surrogate	% Rec		Acceptance Limits
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-58517**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-58517/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/28/2009 1345  
Date Prepared: 09/28/2009 1345

Analysis Batch: 720-58517  
Prep Batch: N/A  
Units: ug/L

Instrument ID: Varian 3900C  
Lab File ID: e:\data\200909\092809\ls-wa-  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-58517/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/28/2009 1410  
Date Prepared: 09/28/2009 1410

Analysis Batch: 720-58517  
Prep Batch: N/A  
Units: ug/L

Instrument ID: Varian 3900C  
Lab File ID: e:\data\200909\092809\ld-wa-9-  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	87	82	72 - 120	5	20		
Gasoline Range Organics (GRO)-C5-C12	62	59	36 - 130	4	20		
Toluene	78	79	59 - 120	1	20		
MTBE	91	82	64 - 130	11	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	99		101		70 - 130		
1,2-Dichloroethane-d4 (Surr)	91		87		67 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-58517**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

MS Lab Sample ID: 720-22841-A-12 MS      Analysis Batch: 720-58517  
 Client Matrix: Water                              Prep Batch: N/A  
 Dilution: 50  
 Date Analyzed: 09/28/2009 1728  
 Date Prepared: 09/28/2009 1728

Instrument ID: Varian 3900C  
 Lab File ID: e:\data\200909\092809\sa-w  
 Initial Weight/Volume: 40 mL  
 Final Weight/Volume: 40 mL

MSD Lab Sample ID: 720-22841-A-12 MSD      Analysis Batch: 720-58517  
 Client Matrix: Water                              Prep Batch: N/A  
 Dilution: 50  
 Date Analyzed: 09/28/2009 1752  
 Date Prepared: 09/28/2009 1752

Instrument ID: Varian 3900C  
 Lab File ID: e:\data\200909\092809\sa-wa  
 Initial Weight/Volume: 40 mL  
 Final Weight/Volume: 40 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	83	80	58 - 134	4	20		
Gasoline Range Organics (GRO)-C5-C12	60	57	43 - 130	5	20		
Toluene	81	74	72 - 130	9	20		
MTBE	86	82	22 - 185	4	20		
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
Toluene-d8 (Surr)		96	97			70 - 130	
1,2-Dichloroethane-d4 (Surr)		92	111			67 - 130	

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: San Joaquin Company Inc

Job Number: 720-22841-1

### Method Blank - Batch: 720-58760

Lab Sample ID: MB 720-58760/3  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/29/2009 1723  
Date Prepared: 09/29/2009 1723

Analysis Batch: 720-58760  
Prep Batch: N/A  
Units: ug/L

### Method: 8260B/CA\_LUFTMS Preparation: 5030B

Instrument ID: Varian 3900C  
Lab File ID: e:\data\200909\092909\mb-wa  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
MTBE	ND		0.50
Ethylbenzene	ND		0.50
TAME	ND		0.50
TBA	ND		5.0
DIPE	ND		1.0
Ethyl-tert-butyl ether	ND		0.50
Surrogate	% Rec		Acceptance Limits
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		67 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Lab Control Sample/  
Lab Control Sample Duplicate Recovery Report - Batch: 720-58760**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-58760/2  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/29/2009 1747  
Date Prepared: 09/29/2009 1747

Analysis Batch: 720-58760  
Prep Batch: N/A  
Units: ug/L

Instrument ID: Varian 3900C  
Lab File ID: e:\data\200909\092909\ls-wa-  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-58760/1  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 09/29/2009 1812  
Date Prepared: 09/29/2009 1812

Analysis Batch: 720-58760  
Prep Batch: N/A  
Units: ug/L

Instrument ID: Varian 3900C  
Lab File ID: e:\data\200909\092909\ld-wa-9-  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	90	85	72 - 120	5	20		
Gasoline Range Organics (GRO)-C5-C12	65	63	36 - 130	3	20		
Toluene	80	78	59 - 120	3	20		
MTBE	94	90	64 - 130	4	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	96		100		70 - 130		
1,2-Dichloroethane-d4 (Surr)	84		103		67 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Matrix Spike/  
Matrix Spike Duplicate Recovery Report - Batch: 720-58760**

**Method: 8260B/CA\_LUFTMS  
Preparation: 5030B**

MS Lab Sample ID: 720-22841-2  
Client Matrix: Water  
Dilution: 20  
Date Analyzed: 09/29/2009 2015  
Date Prepared: 09/29/2009 2015

Analysis Batch: 720-58760  
Prep Batch: N/A

Instrument ID: Varian 3900C  
Lab File ID: e:\data\200909\092909\sa-w  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

MSD Lab Sample ID: 720-22841-2  
Client Matrix: Water  
Dilution: 20  
Date Analyzed: 09/29/2009 2040  
Date Prepared: 09/29/2009 2040

Analysis Batch: 720-58760  
Prep Batch: N/A

Instrument ID: Varian 3900C  
Lab File ID: e:\data\200909\092909\sa-wa  
Initial Weight/Volume: 40 mL  
Final Weight/Volume: 40 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	400	480	58 - 134	5	20	4	4
Gasoline Range Organics (GRO)-C5-C12	69	63	43 - 130	8	20		
Toluene	83	77	72 - 130	8	20		
MTBE	118	111	22 - 185	4	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	97		99		70 - 130		
1,2-Dichloroethane-d4 (Surr)	73		102		67 - 130		

Calculations are performed before rounding to avoid round-off errors in calculated results.

**Quality Control Results**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Method Blank - Batch: 720-58575**

Lab Sample ID: MB 720-58575/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 09/30/2009 1202  
 Date Prepared: 09/29/2009 1244

Analysis Batch: 720-58635  
 Prep Batch: 720-58575  
 Units: ug/L

**Method: 8015B  
 Preparation: 3510C SGC  
 Silica Gel Cleanup**

Instrument ID: HP DRO5  
 Lab File ID: 5b0930012.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 5 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		62
Mineral Spirit Range Organics [C9-C13]	ND		62

Surrogate	% Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	96	31 - 150

**Lab Control Sample/  
 Lab Control Sample Duplicate Recovery Report - Batch: 720-58575**

LCS Lab Sample ID: LCS 720-58575/2-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 09/30/2009 1107  
 Date Prepared: 09/29/2009 1244

Analysis Batch: 720-58635  
 Prep Batch: 720-58575  
 Units: ug/L

**Method: 8015B  
 Preparation: 3510C SGC  
 Silica Gel Cleanup**

Instrument ID: HP DRO5  
 Lab File ID: 5b0930010.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 5 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-58575/3-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 09/30/2009 1135  
 Date Prepared: 09/29/2009 1244

Analysis Batch: 720-58635  
 Prep Batch: 720-58575  
 Units: ug/L

Instrument ID: HP DRO5  
 Lab File ID: 5b0930011.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 5 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	65	76	32 - 119	16	35		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
p-Terphenyl	99		97	31 - 150			

Calculations are performed before rounding to avoid round-off errors in calculated results.



**Quality Control Results**

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Method Blank - Batch: 720-58670**

Lab Sample ID: MB 720-58670/1-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 10/02/2009 0059  
 Date Prepared: 09/30/2009 1318

Analysis Batch: 720-58713  
 Prep Batch: 720-58670  
 Units: ug/L

**Method: 8015B  
 Preparation: 3510C SGC  
 Silica Gel Cleanup**

Instrument ID: HP DRO5  
 Lab File ID: 5b1001040.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 5 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		62
Mineral Spirit Range Organics [C9-C13]	ND		62

Surrogate	% Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	97	31 - 150

**Lab Control Sample/  
 Lab Control Sample Duplicate Recovery Report - Batch: 720-58670**

LCS Lab Sample ID: LCS 720-58670/2-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 10/02/2009 0126  
 Date Prepared: 09/30/2009 1318

Analysis Batch: 720-58713  
 Prep Batch: 720-58670  
 Units: ug/L

**Method: 8015B  
 Preparation: 3510C SGC  
 Silica Gel Cleanup**

Instrument ID: HP DRO5  
 Lab File ID: 5b1001041.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 5 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-58670/3-A  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 10/02/2009 0153  
 Date Prepared: 09/30/2009 1318

Analysis Batch: 720-58713  
 Prep Batch: 720-58670  
 Units: ug/L

Instrument ID: HP DRO5  
 Lab File ID: 5b1001042.d  
 Initial Weight/Volume: 1000 mL  
 Final Weight/Volume: 5 mL  
 Injection Volume: 1 uL  
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	78	74	32 - 119	6	35		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
p-Terphenyl	92		104	31 - 150			

Calculations are performed before rounding to avoid round-off errors in calculated results.

720-22841

# THE SAN JOAQUIN COMPANY INC.

## CHAIN OF CUSTODY / REQUEST FOR ANALYSIS

119277

Transmit results to office checked below:

- 33233 South Koster Road, Tracy, CA 95304  
Voice: (209) 832-2910 Fax: (209) 833-1288
- 1120 Hollywood Ave. No. 3, Oakland, CA 94602  
Voice (510) 336-9118 Fax: (510) 336-9119

LABORATORY: **TestAmerica**  
 CARRIER: THE SAN JOAQUIN COMPANY INC.

Project: **Bay Rock - Oak Walk Emeryville**  
 Project No.: **0004.087** Project Mgr.: **DJW**  
 Sampling Team: **DJW/AO/SM**

WAYBILL No.:           N/A          

SITE GLOBAL I.D. No.: **T06019705080**

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Sample Number	Type	Field Point	Depth to GW in ft.	Casing Elev. in ft.	Date Sampled	Time Sampled	Analyses Requested	Lab. No.
WCEW-1	water	WCEW-1		41.73	09/24/09	1126	<p><b>ALL SAMPLES:</b>            TPH<sub>g</sub>, BTEX + TBA, MTBE, DIPE, ETBE + TAME</p> <p>Analyze all samples for:</p> <p>TPH(g)+BTEX+ TBA, MTBE, DIPE, ETBE &amp; TAME;            TPH(d) + Mineral Spirits using silica gel cleanup</p> <p>AND            TPHd + Mineral Spirits using silica gel cleanup</p>	
MW-2		MW-2		44.40	09/24/09	1333		
MW-3		MW-3		45.49	09/24/09	1045		
MW-4		MW-4		47.31	09/22/09	1312		
MW-5		MW-5		42.51	09/24/09	1201		
MW-6A		MW-6A		43.18	09/22/09	1235		
MW-7		MW-7		44.75	09/22/09	1020		
MW-8		MW-8		48.38	09/22/09	1105		
MW-9		MW-9		47.85	09/24/09	0926		
MW-10		MW-10		45.66	09/24/09	1133		
MW-11		MW-11		45.10	09/24/09	1004		
MW-12		MW-12		42.93	09/23/09	1507		
MW-13		MW-13		45.56	09/23/09	1603		

Sample Hazards: Low to high concentrations of fuel hydrocarbons and solvents Priority: Routine  Expedited  Special

Notes: Pricing per Bay Rock Emeryville Agreement **GEOTRACKER ZIP FILE REQUIRED.**

CUSTODY RECORD	Print Name	Company	Date Received	Time Received	Date Relinquished	Time Relinquished	Signature
Originator:	D.J. Watkins	San Joaquin Co	—	—	9-25-09	12:04	<i>[Signature]</i>
Received/ Relinquished by:	Joan Mulken	Test America	9-25-09	1204			
Received/ Relinquished by:							
Received/ Relinquished by:							
Received at Laboratory by:							

720-22841

THE SAN JOAQUIN COMPANY INC.

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS 119277

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LABORATORY: TestAmerica  
CARRIER: THE SAN JOAQUIN COMPANY INC.

Project: Bay Rock - Oak Walk Emeryville  
Project No.: 0004.087 Project Mgr.: DJW  
Sampling Team: DJW/AO/SM

WAYBILL No.: N/A

SITE GLOBAL I.D. No.: T06019705080

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Sample Number	Type	Field Point	Depth to GW in ft.	Casing Elev. in ft.	Date Sampled	Time Sampled	Analyses Requested	Lab. No.
MW-14	water	MW-14		45.19	09/22/09	1635	Analyze all samples for: TPH(g)+BTEX+ TBA, MTBE, DIPE, ETBE & TAME; TPH(d) + Mineral Spirits using silica gel cleanup	All samples: TPHg + BTEX + MTBE + TBA + DIPE + ETBE + TAME AND TPHd + mineral spirits using silica gel cleanup
MW-15		MW-15	43.55	09/22/09	1700			
MW-16A		MW-16A	44.50	09/22/09	1844			
MW-16B		MW-16B	44.59	09/22/09	1815			
MW-16C		MW-16C	44.48	09/22/09	1737			

Sample Hazards: Low to high concentrations of fuel hydrocarbons and solvents Priority: Routine  Expedited  Special

Notes: Pricing per Bay Rock Emeryville Agreement GEOTRACKER ZIP FILE REQUIRED.

CUSTODY RECORD	Print Name	Company	Date Received	Time Received	Date Relinquished	Time Relinquished	Signature
Originator:	DJ Watkins	San Joaquin Co	—	—	09/25/09	12:04	DJ Watkins
Received/ Relinquished by:	Joan Mulken	testA	9-25-09	1204			
Received/ Relinquished by:							
Received/ Relinquished by:							
Received at Laboratory by:							

# Login Sample Receipt Check List

Client: San Joaquin Company Inc

Job Number: 720-22841-1

**Login Number: 22841**

**List Source: TestAmerica San Francisco**

**Creator: Mullen, Joan**

**List Number: 1**

<b>Question</b>	<b>T / F / NA</b>	<b>Comment</b>
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	