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Alameda County  
Environmental Health

Bay Rock Residential LLC  
5801 Christie Ave. Suite 455  
Emeryville, CA 94608-1937

Date: April 29, 2004

Attn.: Ms Marilyn Ponte

Our Reference: 0004.082

**Subject: Results of Preliminary Subsurface Investigation: The Oak Walk Site Emeryville California**

Dear Ms Ponte:

This letter report has been prepared to provide you with the results of our preliminary environmental subsurface investigation for the site of the proposed "Oak Walk" redevelopment project (which, in the past, had also been prospectively named "Emeryville Corners") in Emeryville, California. Estimates are also included to indicate the likely range of costs for a complete program of site characterization, remediation and environmental management of the site if, as is planned, the property will be used as the site of a mixed commercial and residential development. Our estimates, all of which at this stage of the site investigation are conceptual, include one based on optimistic assumptions, one based on what we believe to be conservative assumptions about the characteristics and areal extent of chemicals of concern in the subsurface beneath the property and a third estimate based on our present best engineering judgment about the likely scope of the actual site characterization, remediation and environmental management programs that will be required.

### **Background**

Bay Rock Residential LLC (**Bay Rock**), in conjunction with others, is evaluating the viability of redeveloping a property that is bounded by San Pablo Avenue, 41st Street, the rear of residential property that fronts onto Adeline Street, and by 40th Street in Emeryville, California. The site location is shown on attached Figure 1. It is currently occupied by residences of considerable age, parking lots and some commercial buildings. Figure 2 is a site plan showing the existing structures and other infrastructure on the site.

In November 2003, Bay Rock contracted with The San Joaquin Company Inc (**SJC**) to prepare a Phase I Environmental Site Assessment (**Phase I**) for the subject property and to perform a preliminary exploratory subsurface investigation for the purpose of assessing the likely cost of a program of site characterization, remediation and environmental management that would be necessary for the proposed redevelopment of the site.

It was known that at least a portion of the subsurface beneath the redevelopment site was highly likely to have been affected by large releases of gasoline, diesel fuel and motor oil that occurred

at the Celis' Alliance Service Station (**Celis**) at 4000 San Pablo Avenue. The Celis site is adjacent to the southern boundary of the subject property and is, today, occupied by a portion of 40th Street where it intersects with San Pablo Avenue. In addition, leaking underground storage tanks, the greater part of the footprint of which is also located beneath the 40th Street right-of-way, were formerly located at the San Francisco French Bread Company (**SFFBC**) facility at 4070 San Pablo Avenue, which today fronts onto 40th Street. As the current owner of the Celis site, the City of Emeryville (**the City**) is a co-responsible party for the unauthorized release of regulated materials that occurred there. The City, by virtue of its acquisition by eminent domain of the greater part of the land where the underground storage tanks were formerly located on the SFFBC site, is also a co-responsible party for releases that occurred at that site.

There is also anecdotal evidence that components of paint and solvents have migrated west down the groundwater gradient from paint manufacturing facilities formerly located on the northeast and southeast sides of the intersection of 41st and Adeline Streets, at 4050 Adeline Street and 1007 41st Street, respectively. Those sites are known as The Frank W. Dunne site and the Boysen Paint site, respectively. It appears that chemicals of concern at one or both of those sites have affected the subsurface beneath the residential property that fronts onto the western side of Adeline Street and adjoins The Oaks redevelopment site on its eastern boundary. Based on that information, it was considered possible that paint thinners or solvents had migrated further west so as to affect some portion of the subsurface beneath The Oaks redevelopment site.

Because there was strong evidence that the site of the proposed redevelopment has been affected by releases of fuel hydrocarbons and motor oil from the Celis site, which is today located beneath 40th Street and, possibly, by releases of regulated materials from the other sites described above, it was determined that it would not be cost-effective to proceed with a formal, fully-scoped Phase I assessment until more information regarding the environmental condition of the subsurface beneath The Oaks site had been gathered. Accordingly, Phase I activities have currently been limited to a review of Alameda County Environmental Health Care Services (**ACEHCS**) files of sites in the neighborhood that are under that regulatory agency's oversight and a review of records in SJC's project files that document the results of environmental investigations that have been conducted on property adjacent to and close by the subject property.

To advance a preliminary understanding of the extent to which the subsurface beneath the proposed redevelopment site has been affected by chemicals of concern, the program of exploratory trenching described below was undertaken and data gathered by that means, together with other information about the site and from similar projects in SJC's portfolio were used to develop conceptual estimates for environmental management of the property.

### **Exploratory Trenching**

On December 3 and 4, 2003, SJC excavated a total of eight exploratory trenches at locations spread over the area of the site. The trench locations are shown on attached Figure 2 (Geotechnical logs of the trenches are also attached to this report.) In addition to logging the geological material exposed in the trenches, SJC used visual and olfactory indicators to detect the potential presence of components of fuel hydrocarbons and other organic hydrocarbon compounds affecting the subsurface soil.

Samples of soil were recovered from the bottoms of the trenches and at other selected depths below the ground surface (**BGS**) and selectively analyzed for diesel, mineral spirits and gasoline, for benzene, toluene, ethyl benzene and total xylene isomers (the BTEX compounds) and for

volatile and semi-volatile organic compounds. Where groundwater accumulated in the bottom of the trenches, that fluid was also selectively analyzed for similar compounds.

### **Chemicals of Concern in Soil and Groundwater**

The results of the analyses of the soil and groundwater samples recovered from the exploratory trenches are compiled in attached Tables 1 and 2, respectively. Concentrations of analytes that exceed the current California Regional Water Quality Control Board - San Francisco Region's (**RWQCB**) Tier 1 Residential Screening Levels are shown in bold in the Tables. Tier I Screening Levels are used to assess whether or not additional evaluation of a site is required before it can be released for construction of residences. The 2004 Tier I screening levels (also known as ESLs - Environmental Screening Levels) related to residential land use for chemicals of concern detected in soil and groundwater beneath the Oak Walk Site are presented in Table 6. Concentrations in excess of the screening levels do not prevent residential construction on a property, but do indicate that a Tier II Risk-based Environmental Assessment supported by sufficient data regarding the distributions of contaminants in the subsurface must be conducted. If the Tier II analysis indicates that environmental risks at the site exceed acceptable limits, the appropriate remediation measures (such as removal of contaminated soil and groundwater and/or installation of impermeable barriers beneath structures) are required if the site is to be redeveloped.

The data in Tables 2 and 3 and other information gathered from the preliminary subsurface investigation that is described in this letter report confirm that the Oak Walk property has been affected by fuel hydrocarbons that migrated onto the site from the adjacent property that is today occupied by 40th Street, a portion of the full width of which, between its northern and southern limits, was the former site of the Celis' Gas Station at which underground fuel and waste-oil storage tanks released significant quantities of their contents into the soil and groundwater. (The former locations of those storage tanks are shown on Figure 3.) Contamination from that source has migrated on the groundwater table and via foundation excavations and utility trenches to affect soil and groundwater as far north as the western entrance to the Oaks Club parking lot at 41st Street and San Pablo Avenue.

Contamination due to leakage from tanks formerly located at the Celis gas station site has also affected soil and groundwater in a broad band along the southern perimeter of the subject property where it runs along 40th Street. This area of affected subsurface extends eastward to the eastern end of the structure at 4040 San Pablo Avenue, where it merges with an area of subsurface contamination that is also present due to leakage from an underground gasoline and an underground diesel storage tank that were used by the San Francisco Bread Company and owned by that company and its successors. The site of those tanks is today partially beneath 40th Street and partially beneath The Oak Walk redevelopment site and is also shown on Figure 3.

A sample of groundwater recovered from Trench 3, which intersected the backfill at the former site of the San Francisco Bread Company tanks were affected by components of fuel hydrocarbons, but it also contained significant concentrations of several volatile and semi-volatile organic compounds that are commonly present in industrial solvents and paint thinners. Sources of such material are known to have been present at the paint manufacturing plants that were previously located to the northeast near the intersection of Adeline and 41st Streets.

As can be seen by examination of Figure 3 and Table 3 and 4, numerous areas of contamination have been found beneath 40th Street between San Pablo Avenue and Adeline Street. In large part they are present due to the leakage of regulated materials from the Celis site and, to a more limited extent, from the tanks that were located on the former San Francisco Bread Company

property. In addition, some may be related to other sources of contamination off the Oak Walk site that may also have affected the proposed redevelopment site.

No contamination was detected in Trench 4, which was located close to the eastern boundary of the Oak Walk site near Adeline Street and none was found in Trench 7 at the northwestern corner of the site. (See Figure 2 for locations.)

In the interior of the Oak Walk site, an odor of solvents was detected in the soil at depths between 8 ft. and 9 ft. BGS in Trenches 5 and 8. As is documented in Table 2, in addition to gasoline the soil samples recovered from those trenches contained volatile and semi-volatile organic compounds that are components of industrial solvents and paint thinners. An odor of solvents was also detected in the soil at the bottom of Trench 6.

Due to the presence of utilities and residential use of the land, a suitable site for exploratory trenching could not be found in the northeastern area of the subject property. Subsurface exploration in that area using drilling rigs should be included in the comprehensive site characterization program for the property.

Information on the depth to groundwater beneath the site, including its seasonal variations is available from measurements made in groundwater-quality monitoring wells that were, from time to time, installed in what is today the 40th Street right-of-way. That data, presented in Table 5, indicates that, typically, groundwater is at a depth of 9 ft. to 10 ft. beneath the Oak Walk site, but seasonally may be as shallow as 5 ft. or as deep as 12 ft. BGS.

### **Remediation Considerations**

Based on the results of the exploratory site investigation described in this letter report, we have postulated three remediation scenarios to cover the range in scope of remedial excavation of soil that, after a comprehensive site characterization and Tier II analysis have been performed for the property, might be shown to be necessary for the concerned regulatory agencies to permit construction of residences on the Oak Walk site. The three scenarios are illustrated on Figures 4 through 6, which are attached. Figure 4 shows the area and depth of a remedial excavation based on an optimistic assessment of the concentrations of chemicals of concern in the subsurface beneath the site. Figure 6 shows a remedial excavation that is based on assumptions that are considered to be conservative, while Figure 5 illustrates a current best estimate, based on our engineering judgment, using the information available at the time the reconnaissance exploration by means of trenching was complete.

It is important to understand that the scenarios presented are conceptual only. The actual area and depth of the remedial excavation that will be required will be guided by the results of a fully comprehensive site characterization program and the directives of the concerned regulatory agencies. The final area and depth of remedial excavation will not be determinable until the ground is actually opened and confirmatory samples of soil and groundwater are analyzed in compliance with an approved site remediation plan.

### **Conceptual Estimates for Environmental Management of the Oak Walk Site**

To provide general input for an economic analysis of the proposed redevelopment project, we have prepared conceptual estimates of the cost of characterizing and remediating the Oak Walk site, including associated environmental management activities through to the anticipated regulatory closure of the site.

Our conceptual estimates are included in the spreadsheets attached to this letter. Three estimates are presented: an optimistic estimate, a conservative estimate and an estimate that we have designated as the “Best Estimate.” In each case, the estimates include a cost summary supported by line item quantities, unit rates and costs for each activity required to complete the anticipated scope of work.

The “optimistic” estimate is based on the area and depths of remedial excavation shown on Figure 4, a low cost for importing suitable fill material to replace the contaminated soil removed from the site, and on an assumption that regulatory authorities will require special impermeable barrier membranes to be installed beneath only a portion of the structures that will be constructed on the site. The optimistic assessment also assumes that the number of borings and groundwater-quality monitoring wells required to adequately characterize the site will be minimal and that the concerned regulatory authorities will permit groundwater-quality monitoring at the site to be terminated and closure obtained one year following remediation.

The “Conservative estimate” assumes that the area and depth of the remedial excavation that will be required will be as shown on Figure 6, that the regulatory authorities will require a relatively dense array of groundwater-quality monitoring wells to be included in the site characterization work, that the cost of importing suitable material to replace contaminated soil will be relatively high, that the regulatory agencies will require impermeable membranes to be placed under all structures built on the site, and that four years of post-remediation groundwater-quality monitoring will be required before regulatory closure of the site can be obtained.

The conceptual estimate designated as the “Best Estimate” is based on the assumed area and depth of remediation shown on Figure 5. In addition, assumptions regarding quantities and unit costs are based on our best engineering judgment regarding the conditions that may be found to prevail when the site characterization and remediation programs are actually implemented.

Please note that each of our estimates is conceptual. It is not possible to predict more precisely the required scope of work or its cost based on the information available to us at the time the program of exploratory trenching was completed. Please also note that our estimates do not include the cost of excavating and re-compacting as engineered fill the shallow soils that cover the site and that appear to be unsuitable for supporting building foundations (See Foundation and Pavement Engineering Considerations, below). They also make no allowance for treatment of groundwater affected by light non-aqueous phase liquids (LNAPL - commonly called “floating product”) or groundwater containing very high concentrations of chemicals of concern which, if present, may have to be removed from beneath the site.

Following is a summation of our conceptual estimates.

<b>Activity</b>	<b>Optimistic Assessment</b>	<b>Best Estimate</b>	<b>Conservative Assessment</b>
Regulatory Negotiations and Site Characterization	\$ 66,000	\$ 88,600	\$ 142,500
Remediation and Site Restoration	229,500	340,500	564,000
Impermeable Barriers under Structures	69,000	188,300	215,200
Post Remediation Groundwater-quality Monitoring	24,000	60,000	149,000
Regulatory Site Closure	9,300	25,400	54,200
<b>Totals</b>	<b>\$ 397,800</b>	<b>\$ 702,800</b>	<b>\$1,124,900</b>

### **Foundation and Pavement Engineering Considerations**

Development of detailed recommendations for geotechnical engineering parameters related to the design of foundations, paving and other infrastructure at the site will require a fully-scoped geotechnical site investigation for the property. However, based on the soil types and properties revealed in the exploratory trenches, some preliminary guidance can be provided at this time.

The dark gray to black silty clay surficial soil that covers the site to varying depths between 5 - 8 ft. over the subject property appears to be fill. It is generally soft and contains a significant proportion of vegetative matter such as plant and tree roots. We expect that this fill will probably have to be stripped away, either in whole or in part, before structures and pavements are built on the site. This in-situ soil is unsuitable support for foundations and all but the lightest, pedestrian-use pavements. It may be possible to re-use this material as fill on the site after it has been excavated and replaced as compacted engineering fill; however it is expected that the material will be difficult to compact to the required relative density. The relative economics of its re-use on site or replacement by more suitable imported material should be considered before a final site-grading plan is developed. (**N.B.** Because, at least in some areas, it may be necessary to excavate the surficial soil that covers the site to depth at which contamination is present, it is probable that the concerned regulatory agencies will not permit use of such contaminated material as re-compacted fill, even if the concentrations of analytes of concern that might be present are less than would require removal if the soil were left in situ. Affected soil from foundation and other excavations would have to be hauled off site for disposal at a permitted facility.)

In Trench 5, extensive tree roots were encountered to depths up to six feet, at which point a layer of vegetative matter, which appeared to be affected by dry-rot fungus was found. This suggests that at some time in the past (probably in the nineteenth century), the brown to black clays that

covered the site were an imported material placed as fill over the original topography, which was not stripped of vegetation or otherwise prepared before the fill was placed.

The typically gray-green, stiffer silty clays that are found beneath the surficial fill are expected to be suitable for strip or column-based foundations for residential structures having two to five stories and, if the bottoms of the foundations are placed at sufficient depth (*i.e.*, on the order of 8 - 10 ft.), that clay would likely be considered suitable for support of foundation for steel or concrete parking structures of similar height.

Beneath the surficial fill, sands and gravels were found at only two of the locations explored (*i.e.*, in Trench 3 and Trench 7). It appears that those subsurface locations represent relatively limited areas of the site and, in the case of Trench 3, the 10- to 15-ft. wide section of sand and gravel found at the eastern end of that trench appears to be paleo, stream-bed deposits associated with a small watercourse of Recent geological age, which is known to pass beneath 40th Street and cross the property to the south at 3992 San Pablo Avenue. It is expected that those stream deposits continue northeastward to the property boundary and occupy an area no more than 15-ft. wide by 50-ft. long at depths between 5 and 10 ft BGS within the boundaries of the Oak Walk site. Depending upon final site layout and foundation design, we expect that it would be prudent to remove these sands and gravels to eliminate their potential for liquefaction during a seismic event.

If you have any questions about this report or our estimates, or if we can be of any other assistance, please call me at (510) 336-9118.

Sincerely,



D.J. Watkins, PhD, PE  
Geotechnical Engineer  
The San Joaquin Company Inc.



*Attch.:*

*Tables 1 through 6  
Figures 1 through 6  
Trench Logs  
Conceptual Estimates for Site Characterization and Remediation  
Laboratory Certificates of Analysis*

TABLE 1

RESULTS OF ANALYSES OF SOIL SAMPLES RECOVERED FROM EXPLORATORY TRENCHES

Sample ID	Date Sampled	Depth BGS ft.	Mineral Spirits mg/Kg	Stoddard solvent mg/Kg	TPHd (diesel) mg/Kg	TPHg (gasoline) mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl-benzene mg/Kg	Total Xylenes mg/Kg	MTBE mg/Kg	Isopropyl-benzene mg/Kg	n-Butyl-benzene mg/Kg	1,2,4-Tri-methyl-benzene mg/Kg	1,3,5-Tri-methyl-benzene mg/Kg	n-Propyl-benzene mg/Kg	sec-Butyl-benzene mg/Kg	Napthalene mg/Kg	2-Methyl-napthalene mg/Kg
T1 - 7.0	12/03/03	7.0	n/a	n/a	70	<b>530</b> <sup>5</sup>	ND	ND	8.3	<b>4.7</b>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
T1 - 8.5	12/03/03	8.5	n/a	n/a	90	<b>1,400</b> <sup>5</sup>	ND	ND	10	<b>1.9</b>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
T2 - 6.5	12/03/03	6.5	n/a	n/a	ND	3.8 <sup>5</sup>	0.026	ND	0.024	ND	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
T2 - 8.5	12/03/03	8.5	n/a	n/a	1.5	300 <sup>5</sup>	<b>1.1</b>	3.1	6.4	<b>27</b>	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
T3 - 8.0	12/03/03	8.0	n/a	n/a	4.3	6.4	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
T3 - 9.5	12/03/03	9.5	n/a	n/a	ND	ND	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
T4 - 10.5	12/03/03	10.5	n/a	n/a	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	n/a
T5 - 9.0	12/03/03	9	ND	ND	70 <sup>4</sup>	<b>400</b>	ND	2.6	6.1	<b>36</b>	ND	0.88	ND	25	7.6	3.9	0.6	4.1	<b>1.8</b>
T6 - 8.5	12/02/03	8.5	n/a	n/a	70	<b>3,000</b> <sup>5</sup>	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
T7 - 9.0	12/02/03	9.0	n/a	n/a	ND	ND	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
T8 - 8.5	12/02/03	8.5	n/a	n/a	150	<b>820</b> <sup>5</sup>	ND	ND	ND	ND	ND	ND	0.51	ND	ND	ND	0.81	ND	n/a

Notes:

- (1) ND = Not Detected above the Method Detection Limit (MDL).
- (2) n/a = Not analyzed
- (3) Laboratory Method GC/MS - EPA 82700C looks for 65 semi-volatile chemicals of concern. Only those found are listed in this table.
- (4) The laboratory reports that the detected hydrocarbon does not match its Diesel standard.
- (5) Does not match laboratory's standard for gasoline.
- (6) Laboratory Method EPA 8260B looks for 66 Volatile Organic Compounds. Only those found are listed in this table.
- (7) Concentrations in **bold** script exceed the San Francisco Bay Area RWQCB's Environmental Screening Limits is not a source of drinking water.



TABLE 2

RESULTS OF ANALYSES OF GROUNDWATER SAMPLES RECOVERED FROM EXPLORATORY TRENCHES

Sample ID	Date Sampled	TPHd (diesel) µg/L	TPHg (gasoline) µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L	Naphthalene µg/L	Isopropyl-benzene µg/L	1,2,4-trimethylbenzene µg/L	1,3,5-Tri-methylbenzene µg/L	n-Butylbenzene µg/L	n-propylbenzene µg/L	p-Isopropylbenzene µg/L	sec-Butylbenzene µg/L
T3-W	12/03/03	<b>2,300</b> <sup>3</sup>	<b>6,300</b> <sup>5</sup>	ND	ND	31	<b>30</b>	12	87	320	110	100	230	23	47
T7-W	12/02/03	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

- (1) ND = Not Detected above the Method Detection Limit (MDL).
- (2) n/a = Not Analyzed.
- (3) The laboratory reports that the detected hydrocarbon does not match its diesel standard.
- (4) Laboratory Method 8260B looks 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.
- (5) Concentrations in **bold** script exceed the San Francisco Bay Area RWQCB's Environmental Screening Limits at sites where groundwater is not a source of drinking water.

TABLE 3

RESULTS OF ANALYSES OF SOIL SAMPLES RECOVERED FROM 40TH STREET RIGHT-OF-WAY  
1993-1994

Sample ID	Date Sampled	Depth BGS ft.	TRPH <sup>2</sup>	TPHd Diesel	TPHg (gasoline)	TPHmo (motor oil)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Methylene Chloride	Alaclor 1260	Naphthalene	2-Methylnaphthalene	4-Methylphenol
			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
LFSB1-7.0	08/08/93	7	290	240	<b>850</b>	27	<b>5.4</b>	ND <sup>4</sup>	<b>25</b>	<b>42</b>	n/a <sup>3</sup>	n/a	n/a	n/a	n/a
LFSB1-9.5	08/08/93	9.5	130	220	180	ND	<b>0.89</b>	1.1	4.3	<b>18</b>	n/a	n/a	n/a	n/a	n/a
LFSB1-14.5	08/08/93	14.5	60	ND	7.4	ND	<b>0.44</b>	0.44	0.14	0.61	n/a	n/a	n/a	n/a	n/a
LFSB2-7.0	08/08/93	7	160	<b>790</b>	<b>780</b>	57	<b>8</b>	ND	31	<b>140</b>	n/a	ND	n/a	n/a	n/a
LFSB2-9.5	08/08/93	9.5	210	200	<b>720</b>	ND	<b>2.4</b>	5.2	15	<b>59</b>	n/a	n/a	n/a	n/a	n/a
LFSB2-14.5	08/08/93	14.5	43	ND	1	12	<b>0.2</b>	0.21	0.021	0.12	n/a	ND	n/a	n/a	n/a
LFSB3-9.5	08/07/93	9.5	37	11	<b>580</b>	ND	<b>9.7</b>	<b>50</b>	15	<b>90</b>	n/a	ND	n/a	n/a	n/a
LFSB3-14.5	08/07/93	14.5	37	ND	0.9	ND	0.092	0.16	0.031	0.17	n/a	ND	n/a	n/a	n/a
LFSB4-7.0	08/08/93	7	70	13	380	ND	<b>3</b>	5.2	8.2	<b>18</b>	n/a	n/a	n/a	n/a	n/a
LFSB4-14.5	08/08/93	14.5	210	ND	ND	ND	0.026	0.005	0.019	0.023	n/a	n/a	n/a	n/a	n/a
LFSB5-7.0	08/08/93	7	37	15	<b>410</b>	ND	<b>2.4</b>	0.6	16	<b>6.3</b>	n/a	n/a	n/a	n/a	n/a
LFSB5-14.5	08/08/93	14.5	93	ND	ND	ND	0.011	ND	0.008	0.008	n/a	n/a	n/a	n/a	n/a
LFSB6-9.5	08/08/93	9.5	67	51	<b>490</b>	ND	<b>2.7</b>	ND	15	<b>15</b>	n/a	n/a	n/a	n/a	n/a
LFSB6-14.5	08/08/93	14.5	ND	ND	ND	ND	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LFSB7-9.5	08/07/93	9.5	170	52	<b>750</b>	66	<b>2.5</b>	8.5	22	<b>93</b>	n/a	n/a	n/a	n/a	n/a
LFSB7-14.5	08/07/93	14.5	ND	ND	2.8	ND	ND	ND	0.029	0.03	n/a	n/a	n/a	n/a	n/a
LFSB8-9.5	08/08/93	9.5	130	110	<b>2,800</b>	ND	<b>22</b>	9.5	<b>82</b>	<b>290</b>	n/a	n/a	n/a	n/a	n/a
LFSB8-14.5	08/08/93	14.5	37	ND	ND	11	0.009	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LFSB9-7.0	08/07/93	7	ND	14	210	ND	<b>2.8</b>	<b>13</b>	5.1	<b>29</b>	n/a	n/a	n/a	n/a	n/a
LFSB9-9.5	08/07/93	9.5	n/a	n/a	<b>1,200</b>	n/a	<b>14</b>	<b>81</b>	<b>26</b>	<b>140</b>	n/a	n/a	n/a	n/a	n/a
LFSB9-14.5	08/07/93	14.5	77	ND	ND	ND	0.079	0.059	0.011	0.041	n/a	n/a	n/a	n/a	n/a
LFSB10-7.0	08/07/93	7	n/a	n/a	73	n/a	<b>2.6</b>	4.7	1.6	<b>7.7</b>	n/a	n/a	n/a	n/a	n/a
LFSB10-9.5	08/07/93	9.5	40	ND	<b>1,100</b>	ND	ND	7.8	ND	<b>22</b>	n/a	n/a	n/a	n/a	n/a
LFSB10-14.5	08/07/93	14.5	ND	ND	8.6	ND	<b>0.48</b>	0.29	0.1	0.48	n/a	n/a	n/a	n/a	n/a

Oak Walk Redevelopment Project, Emeryville, CA

Sample ID	Date Sampled	Depth BGS	TRPH <sup>2</sup> mg/Kg	TPHd Diesel mg/Kg	TPHg (gasoline) mg/Kg	TPHmo (motor oil) mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Total Xylenes mg/Kg	Methylene Chloride mg/Kg	AlaClor 1260 mg/Kg	Naphthalene mg/Kg	2-Methylnaphthalene mg/Kg	4-Methylphenol mg/Kg
LFSB11-14.5	08/09/93	14.5	40	ND	ND	11	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LFSB12-1.0	08/09/93	1	<b>4,600</b>	ND	ND	400	n/a	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
LFSB12-3.0	08/09/93	3	420	<b>560</b>	<b>6,500</b>	64	n/a	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
LFSB13-5.0	08/09/93	5	63	ND	23	ND	n/a	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
LFSB13-6.5	08/09/93	6.5	37	ND	13	ND	n/a	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
LFSB14-2.0	08/09/93	2	<b>2,200</b>	ND	42	480	n/a	n/a	n/a	n/a	n/a	<b>0.22</b>	n/a	n/a	n/a
LFSB14-4.5	08/09/93	4.5	47	ND	ND	ND	n/a	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
LFSB15-4.5	08/09/93	4.5	480	140	<b>4,700</b>	12	n/a	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
LFSB15-6.0	08/09/93	6	120	59	<b>3,700</b>	14	n/a	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
LFSB16-4.5	08/09/93	4.5	60	ND	9	ND	n/a	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
LFSB16-6.0	08/09/93	6	53	ND	8	ND	n/a	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
LFSB17-4.5	08/09/93	4.5	70	40	260	ND	ND	<b>22</b>	12	<b>69</b>	<b>2.6</b>	ND	1.6	1.8	0.4
LFSB17-6.0	08/09/93	7	50	70	440	ND	ND	<b>27</b>	8	<b>43</b>	<b>2.0</b>	ND	0.57	0.63	ND
LFSB17-12.0	08/09/93	12	47	130	<b>500</b>	190	<b>190</b>	9	4	<b>23</b>	<b>0.660</b>	ND	1.7	1.8	ND
LFSB18-1.0	08/09/93	1	<b>2,200</b>	ND	1	320	n/a	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
LFSB18-3.0	08/09/93	3	<b>1,100</b>	ND	ND	390	n/a	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
LFSB19-1.5	08/09/93	1.5	<b>2,200</b>	ND	ND	<b>530</b>	n/a	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
LFSB19-3.0	08/09/93	3	<b>3,600</b>	ND	1	<b>740</b>	n/a	n/a	n/a	n/a	n/a	ND	n/a	n/a	n/a
LF-1-4.5	08/07/93	4.5	77	220	<b>550</b>	16	<b>0.84</b>	1.2	5.6	<b>2.7</b>	n/a	n/a	n/a	n/a	n/a
LF-1-9.5	08/07/93	9.5	ND <sup>4</sup>	18	470	ND	<b>0.97</b>	ND	6.6	<b>8.9</b>	n/a	n/a	n/a	n/a	n/a
LF-1-14.5	08/07/93	14.5	60	16	8.4	ND	0.14	0.17	0.081	<b>0.37</b>	n/a	n/a	n/a	n/a	n/a
LF-2-9.5	08/07/93	9.5	30	14	<b>740</b>	ND	<b>4.70</b>	<b>35</b>	13	<b>68</b>	n/a	n/a	n/a	n/a	n/a
LF-2-14.5	08/07/93	14.5	ND	ND	ND	ND	0.009	0.012	ND	0.015	n/a	n/a	n/a	n/a	n/a
LF-3-9.5	08/07/93	9.5	37	ND	75	ND	0.062	0.28	1.1	<b>1.1</b>	n/a	n/a	n/a	n/a	n/a
LF-3-14.5	08/07/93	14.5	ND	ND	ND	ND	0.014	ND	0.01	0.007	n/a	n/a	n/a	n/a	n/a
LF-B1-2	08/30/94	2	ND	ND	0.8	n/a	0.008	ND	0.016	0.085	n/a	n/a	n/a	n/a	n/a
LF-B1-5	08/30/94	5	30	ND	110	n/a	<b>0.840</b>	0.520	3.200	<b>12</b>	n/a	n/a	n/a	n/a	n/a
LF-B1-10	08/30/94	10	30	ND	<b>690</b>	n/a	<b>12</b>	<b>50</b>	<b>18</b>	<b>99</b>	n/a	n/a	n/a	n/a	n/a
LF-B2-2	08/30/94	2	10	ND	110	n/a	<b>0.6</b>	2.9	3.3	<b>16</b>	n/a	n/a	n/a	n/a	n/a
LF-B2-5	08/30/94	5	10	1	66	n/a	<b>0.37</b>	0.8	0.79	<b>3.5</b>	n/a	n/a	n/a	n/a	n/a

Oak Walk Redevelopment Project, Emeryville, CA

Sample ID	Date Sampled	Depth BGS	TRPH <sup>2</sup> mg/Kg	TPHd Diesel mg/Kg	TPHg (gasoline) mg/Kg	TPHmo (motor oil) mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Total Xylenes mg/Kg	Methylene Chloride mg/Kg	Ala chlor 1260 mg/Kg	Naphthalene mg/Kg	2-Methylnaphthalene mg/Kg	4-Methylphenol mg/Kg
LF-B2-10	08/30/94	10	30	ND	830	n/a	13	52	21	110	n/a	n/a	n/a	n/a	n/a
LF-B3-2	08/30/94	2	80	ND	440	n/a	8.5	36	12	58	n/a	n/a	n/a	n/a	n/a
LF-B3-5	08/30/94	5	200	8	810	n/a	14	62	22	100	n/a	n/a	n/a	n/a	n/a
LF-B3-10	08/30/94	10	50	ND	390	n/a	7.1	22	7.2	38	n/a	n/a	n/a	n/a	n/a
LF-B4-2	08/30/94	2	40	ND	49	n/a	0.14	0.12	2.3	11	n/a	n/a	n/a	n/a	n/a
LF-B4-5	08/30/94	5	1,300	28	8,800	n/a	6.8	7.3	190	870	n/a	n/a	n/a	n/a	n/a
LF-B4-10	08/30/94	10	110	3	510	n/a	1.1	0.96	3.4	13	n/a	n/a	n/a	n/a	n/a
LF-B5-2	08/30/94	2	10	ND	0.4	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B5-5	08/30/94	5	2,400	ND	ND	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B5-10	08/30/94	10	ND	ND	ND	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B6-2	08/30/94	2	20	ND	ND	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B6-5	08/30/94	5	10	ND	ND	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B6-10	08/30/94	10	ND	ND	ND	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B7-2	08/30/94	2	10	ND	27	n/a	0.42	ND	0.75	0.05	n/a	n/a	n/a	n/a	n/a
LF-B7-5	08/30/94	5	ND	ND	16	n/a	0.67	ND	ND	0.025	n/a	n/a	n/a	n/a	n/a
LF-B7-10	08/30/94	10	20	ND	520	n/a	7.4	30	14	78	n/a	n/a	n/a	n/a	n/a
LF-B8-2	08/30/94	2	50	5	3.4	n/a	0.2	ND	0.56	0.02	n/a	n/a	n/a	n/a	n/a
LF-B8-5	08/30/94	5	ND	ND	14	n/a	0.3	0.01	0.26	ND	n/a	n/a	n/a	n/a	n/a
LF-B8-10	08/30/94	10	20	ND	140	n/a	2.1	5.8	4	21	n/a	n/a	n/a	n/a	n/a
LF-B9-2	08/30/94	2	20	ND	2.8	n/a	0.33	0.005	0.41	0.07	n/a	n/a	n/a	n/a	n/a
LF-B9-5	08/30/94	5	ND	ND	40	n/a	1.2	0.013	2.6	0.15	n/a	n/a	n/a	n/a	n/a
LF-B9-10	08/30/94	10	20	ND	190	n/a	4.3	11	5.5	28	n/a	n/a	n/a	n/a	n/a
LF-B10-2	08/30/94	2	150	ND	29	n/a	0.038	0.048	0.18	1.2	n/a	n/a	n/a	n/a	n/a
LF-B10-5	08/30/94	5	30	ND	13	n/a	ND	0.02	0.05	ND	n/a	n/a	n/a	n/a	n/a
LF-B10-10	08/30/94	10	ND	ND	ND	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B11-2	08/30/94	2	20	ND	ND	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B11-5	08/30/94	5	ND	ND	1	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B11-10	08/30/94	10	40	ND	250	n/a	1.1	0.35	4.4	21	n/a	n/a	n/a	n/a	n/a
LF-B12-5	08/30/94	2	30	ND	ND	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B12-10	08/30/94	5	ND	ND	0.9	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B12-10	08/30/94	10	30	ND	160	n/a	0.97	0.19	4.1	20	n/a	n/a	n/a	n/a	n/a
LF-B13-2	08/30/94	2	600	220	ND	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a

Sample ID	Date Sampled	Depth BGS	TRPH <sup>2</sup> mg/Kg	TPHd Diesel mg/Kg	TPHg (gasoline) mg/Kg	TPHmo (motor oil) mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethylbenzene mg/Kg	Total Xylenes mg/Kg	Methylene Chloride mg/Kg	Ala chlor 1260 mg/Kg	Naphthalene mg/Kg	2-Methylnaphthalene mg/Kg	4-Methylphenol mg/Kg
LF-B13-5	08/30/94	5	40	10	4.2	n/a	ND	ND	0.02	ND	n/a	n/a	n/a	n/a	n/a
LF-B13-10	08/30/94	10	20	3	6.9	n/a	<b>0.36</b>	ND	0.45	0.13	n/a	n/a	n/a	n/a	n/a
LF-B14-2	08/30/94	2	410	ND	ND	n/a	ND	ND	ND	ND	0.670	n/a	n/a	n/a	n/a
LF-B14-5	08/30/94	5	ND	ND	1.6	n/a	0.01	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B14-10	08/30/94	10	ND	ND	2.9	n/a	0.006	ND	0.01	ND	<b>1.1</b>	n/a	n/a	n/a	n/a
LF-B15-2	08/30/94	2	420	ND	ND	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B15-5	08/30/94	5	ND	ND	ND	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B15-10	08/30/94	10	20	ND	ND	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B16-2	08/30/94	2	50	10	ND	n/a	ND	ND	ND	ND	n/a	n/a	n/a	n/a	n/a
LF-B16-5	08/30/94	5	ND	ND	28	n/a	0.16	ND	0.96	0.037	n/a	n/a	n/a	n/a	n/a
LF-B16-10	08/30/94	10	20	ND	130	n/a	<b>2.5</b>	5.4	2.6	<b>15</b>	n/a	n/a	n/a	n/a	n/a

**Notes:**

- (1) Data Source: Levine-Fricke (1994a)
- (2) TRPH = Total Recoverable Petroleum Hydrocarbons
- (3) n/a = Not Analyzed
- (4) ND = Not Detected above the Method Detection Limit (MDL).
- (5) Concentrations in **bold** script exceed the 2004 San Francisco Bay Area RWQCB's Environmental Screening Limits for chemicals in porous soils at sites where groundwater is not a source of drinking water.

TABLE 4

RESULTS OF ANALYSES OF GROUNDWATER SAMPLES RECOVERED FROM  
40TH STREET RIGHT-OF-WAY 1992-1998

Sample ID	Date Sampled	TRPH <sup>2</sup> µg/L	TPHd (diesel) µg/L	TPHg (gasoline) µg/L	TPHmo (motor oil) µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L	MTBE µg/L	PNA (Naphthalene) µg/L
SMW-1	09/11/92	n/a	n/a	<b>1,400</b>	n/a	<b>470</b>	<b>45</b>	<b>43</b>	<b>100</b>	n/a	n/a
	12/03/92	n/a	n/a	ND	n/a	ND	ND	1.6	ND	n/a	n/a
	03/04/93	n/a	n/a	<b>700</b>	n/a	<b>1.1</b>	ND	ND	1.1	n/a	n/a
	06/04/93	n/a	n/a	<b>2,900</b>	n/a	<b>340</b>	<b>58</b>	<b>50</b>	<b>140</b>	n/a	n/a
	09/02/93	n/a	n/a	<b>1,500</b>	n/a	<b>340</b>	ND	ND	<b>140</b>	n/a	n/a
	12/01/93	n/a	n/a	<b>810</b>	n/a	<b>170</b>	<b>23</b>	22	<b>39</b>	n/a	n/a
	03/08/94	n/a	n/a	<b>5,800</b>	n/a	<b>1,700</b>	<b>430</b>	<b>230</b>	<b>490</b>	n/a	n/a
LF-1AG	08/07/93	<b>11,000</b>	<b>41,000</b>	<b>100,000</b>	ND	<b>13,000</b>	<b>9,400</b>	<b>3,100</b>	<b>14,000</b>	n/a	n/a
LF-2AG	08/07/93	ND <sup>3</sup>	95	<b>13,000</b>	ND	<b>2,400</b>	<b>2,900</b>	<b>500</b>	<b>2,000</b>	n/a	n/a
LF-3AG	08/07/93	ND	780	<b>11,000</b>	ND	<b>1,500</b>	<b>170</b>	<b>2,900</b>	<b>5,100</b>	n/a	n/a
WCEW-1	09/26/97	n/a <sup>4</sup>	<b>41,000</b>	<b>180,000</b>	ND	<b>2,800</b>	<b>4,900</b>	<b>3,100</b>	<b>12,000</b>	ND	<b>120</b>
	12/05/97	n/a	95	<b>4,700</b>	ND	<b>2,100</b>	<b>1,800</b>	<b>2,500</b>	<b>10,000</b>	340	<b>170</b>
	03/13/98	n/a	780	<b>7,700</b>	ND	<b>2,500</b>	<b>1,300</b>	<b>1,000</b>	<b>3,400</b>	570	<b>420</b>
	06/02/98	n/a	780	<b>3,400</b>	<b>550</b>	<b>2,100</b>	<b>460</b>	<b>910</b>	<b>2,990</b>	350	<b>1,000</b>

**Notes:**

- (1) Data Sources: Levine-Fricke (1994c), Woodward-Clyde International-Americas (1998a)
- (2) TRPH = Total Recoverable Petroleum Hydrocarbons
- (3) ND = Not Detected above the Method Detection Limit (MDL).
- (4) n/a = Not Analyzed.
- (5) Concentrations in **bold** script exceed the 2004 San Francisco Bay Area RWQCB's Environmental Screening Limits.

TABLE 5  
40TH STREET RIGHT-OF-WAY  
DEPTHS TO GROUNDWATER 1993-1997

Well Number	Date Measured	Casing Elevation <i>ft. MSL</i>	Ground Elevation <i>ft. MSL</i>	Depth Below Top of Well Casing <i>ft.</i>	Depth Below Ground Level <i>ft.</i>	Groundwater Elevation <i>ft. MSL</i>
SMW-1	09/11/92	n/a <sup>1</sup>		9.10	n/a	n/a
	12/03/92	n/a		9.55	n/a	n/a
	03/04/93	n/a		7.82	n/a	n/a
	06/04/93	n/a		5.15	n/a	n/a
	09/02/93	n/a		8.00	n/a	n/a
	12/01/93	n/a		11.82	n/a	n/a
	03/08/94	n/a		5.08	n/a	n/a
LF-1		38.95	n/a			
	08/07/93 08/20/93			9.40 10.00	n/a	29.55 28.95
LF-2		40.25	n/a			
	08/07/93 08/20/93			7.97 8.29	n/a n/a	32.28 31.96
LF-3		39.35	n/a			
	08/07/93 08/20/93			8.90 9.18	n/a n/a	30.45 30.17
WCEW-1		39.04	n/a			
	06/02/98			7.24	n/a	31.80
	03/13/98			5.92	n/a	33.12
	12/05/97 09/26/97			6.00 8.06	n/a n/a	33.04 30.98

**Note:** n/a = Data is not available.

TABLE 6

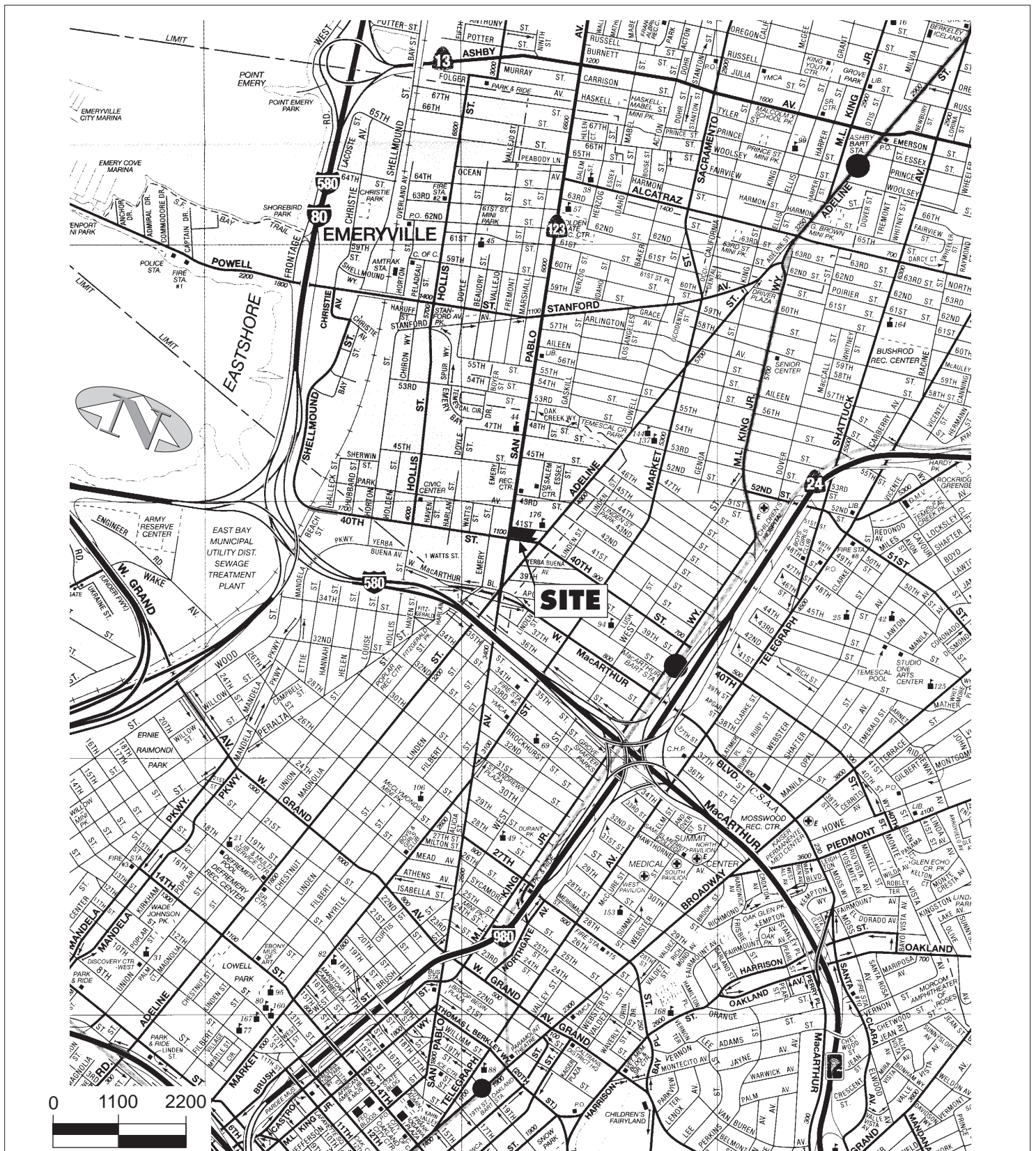
RWQCB TIER 1 CONCENTRATION LIMITS (ESLs)  
FOR CHEMICALS OF CONCERN IN SOIL AND GROUNDWATER

Chemical of Concern	ESL		Groundwater µg/L
	Residential mg/Kg	Soil Commercial mg/Kg	
Benzene	0.18	0.38	46
n-Butylbenzene (1-Phenylbutane)	ne <sup>1</sup>	ne	ne
sec-Butylbenzene (Butyl Benzene)	ne	ne	ne
Ethyl benzene	24	24	290
2-Methylnaphthalene	0.25	0.25	2.1
Methyl Teritary Butyl Ether	1.0	1.0	1,800
Naphthalene	4.5	4.8	24
Isopropylbenzene (Cumene)	ne	ne	ne
p-Isopropylbenzene	ne	ne	ne
n-Propylbenzene (Isocumene)	ne	ne	ne
Toluene	8.4	8.4	130
TPHd	500 <sup>2</sup>	500 <sup>2</sup>	640 <sup>2</sup>
TPHg	400 <sup>2</sup>	400 <sup>2</sup>	640 <sup>2</sup>
1,2,4 Trimethylbenzene	ne	ne	ne
1,3,5 Trimethylbenzene	ne	ne	ne
Xylene Isomers (Total)	1.0	1.0	13

**Notes:**

- (1) ne = not established in the RWQCB ESL guidance document (California Regional Water Quality Control Board - San Francisco Bay Region 2004).
- (2) Limits cited for Total Petroleum Hydrocarbons are ceiling values (odors, etc.). No limits related to human health risk have been established for these COCs other than those for components such as the BTEX compounds.





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

**SITE LOCATION**  
 Emeryville Corners Project  
 Emeryville, California

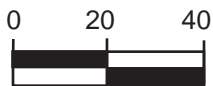
FIG 1

**The San Joaquin Company Inc.**

Project Number: 0004.081

Drawn by: GNM

Date: 01/17/04



SCALE IN FEET

Base Map:  
•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)

EXPLANATION

-  Exploratory Trench
-  Former Underground Storage Tank (removed)

San Pablo Avenue

41st Street

Property Boundary

Trench 7

PARKING LOT

Trench 6

4090 San Pablo Ave.

4085 San Pablo Ave.

Trench 8

1089 41st St.

1087 41st St.

1083 41st St.

1081 41st St.

1079 41st St.

1077 41st St.

1085 41st St.

1089 1/2 41st St.

1089B 41st St.

Garage

1077 1/2 41st St.

Trench 5

Trench 1

4070 San Pablo Ave.

Garage

Property Boundary

Trench 2

PARKING LOT

Property Boundary

PARKING LOT

Trench 3

PARKING LOT

Trench 4

A.C. Transit Facility

Adeline Street

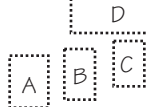
40th Street

Location of Former Fuel USTs  
(10,000 gallon gasoline)  
(10,000 gallon diesel)

Former Celi's Alliance Gas Station  
4000 San Pablo Avenue

Former Remedial Excavation

- 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



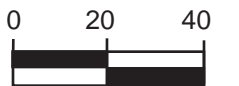
**SITE PLAN**  
Emeryville Corners Project  
Emeryville, California

FIG 2

**The San Joaquin Company Inc.**

Project Number: 0004.081

Drawn by: GNM | Date: 01/17/04

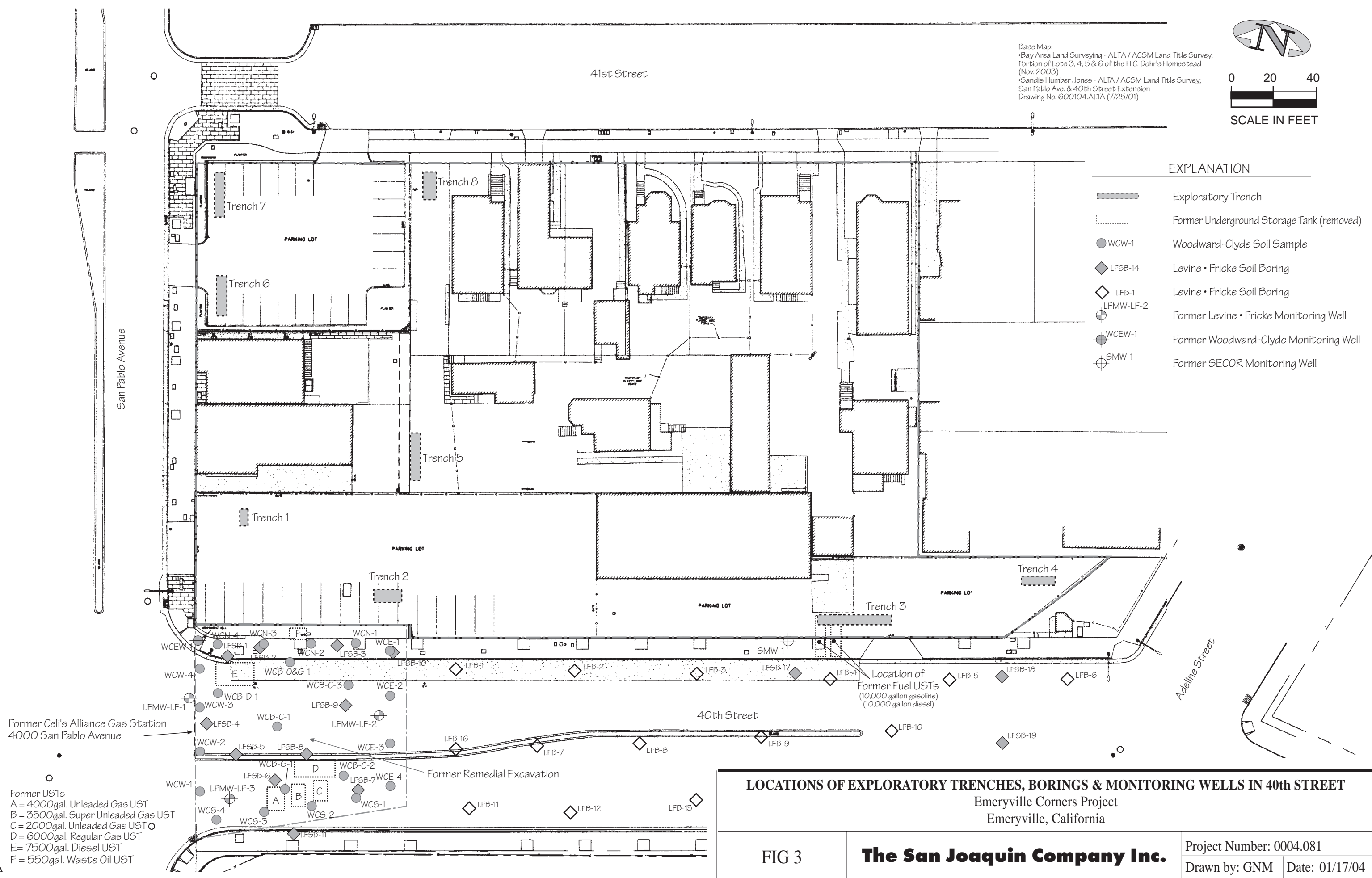


SCALE IN FEET

Base Map:  
• 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)

EXPLANATION

- Exploratory Trench
- Former Underground Storage Tank (removed)
- WCN-1 Woodward-Clyde Soil Sample
- LFSB-14 Levine • Fricke Soil Boring
- LFB-1 Levine • Fricke Soil Boring
- LFMW-LF-2 Former Levine • Fricke Monitoring Well
- WCEW-1 Former Woodward-Clyde Monitoring Well
- SMW-1 Former SECOR Monitoring Well



Former Celi's Alliance Gas Station  
4000 San Pablo Avenue

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

Location of  
Former Fuel USTs  
(10,000 gallon gasoline)  
(10,000 gallon diesel)

LOCATIONS OF EXPLORATORY TRENCHES, BORINGS & MONITORING WELLS IN 40th STREET

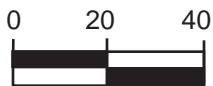
Emeryville Corners Project  
Emeryville, California

FIG 3

**The San Joaquin Company Inc.**

Project Number: 0004.081

Drawn by: GNM | Date: 01/17/04



SCALE IN FEET

Base Map:  
•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)

EXPLANATION

-  Exploratory Trench
-  Area of Excavation - Optimistic Assessment

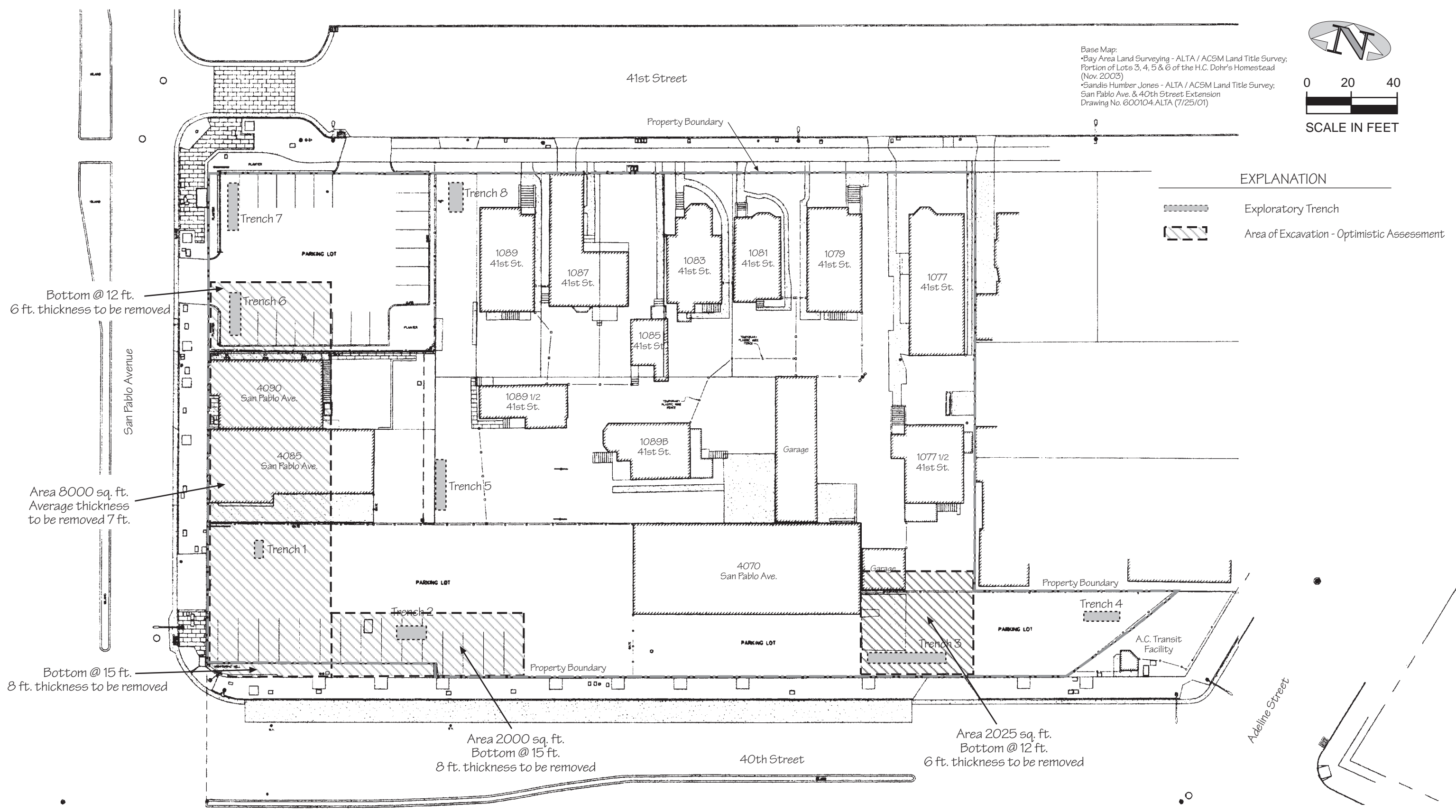
Bottom @ 12 ft.  
6 ft. thickness to be removed

Area 8000 sq. ft.  
Average thickness  
to be removed 7 ft.

Bottom @ 15 ft.  
8 ft. thickness to be removed

Area 2000 sq. ft.  
Bottom @ 15 ft.  
8 ft. thickness to be removed

Area 2025 sq. ft.  
Bottom @ 12 ft.  
6 ft. thickness to be removed



AREAS TO BE REMEDIATED - OPTIMISTIC ASSESSMENT

Emeryville Corners Project  
Emeryville, California

FIG 4

**The San Joaquin Company Inc.**

Project Number: 0004.081



Drawn by: GNM | Date: 01/17/04



SCALE IN FEET

Base Map:  
• 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)

EXPLANATION

-  Exploratory Trench
-  Area of Excavation - Best Estimate

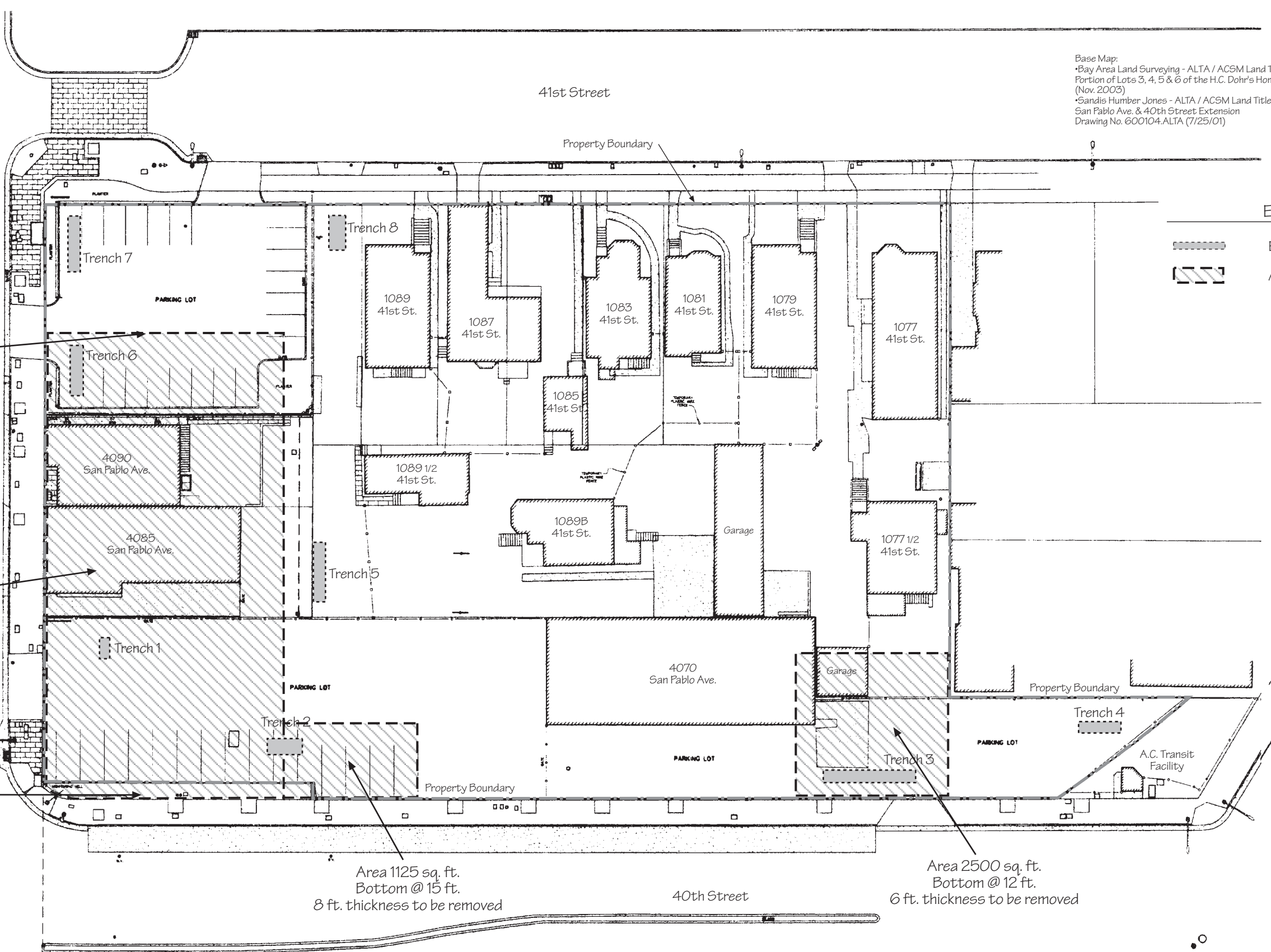
Bottom @ 12 ft.  
7 ft. thickness to be removed

Area 12,800 sq. ft.  
Average thickness  
to be removed 8 ft.

Bottom @ 15 ft.  
9 ft. thickness to be removed

Area 1125 sq. ft.  
Bottom @ 15 ft.  
8 ft. thickness to be removed

Area 2500 sq. ft.  
Bottom @ 12 ft.  
6 ft. thickness to be removed



AREAS TO BE REMEDIATED - BEST ESTIMATE

Emeryville Corners Project  
Emeryville, California

FIG 5

**The San Joaquin Company Inc.**

Project Number: 0004.081

Drawn by: GNM | Date: 01/17/04

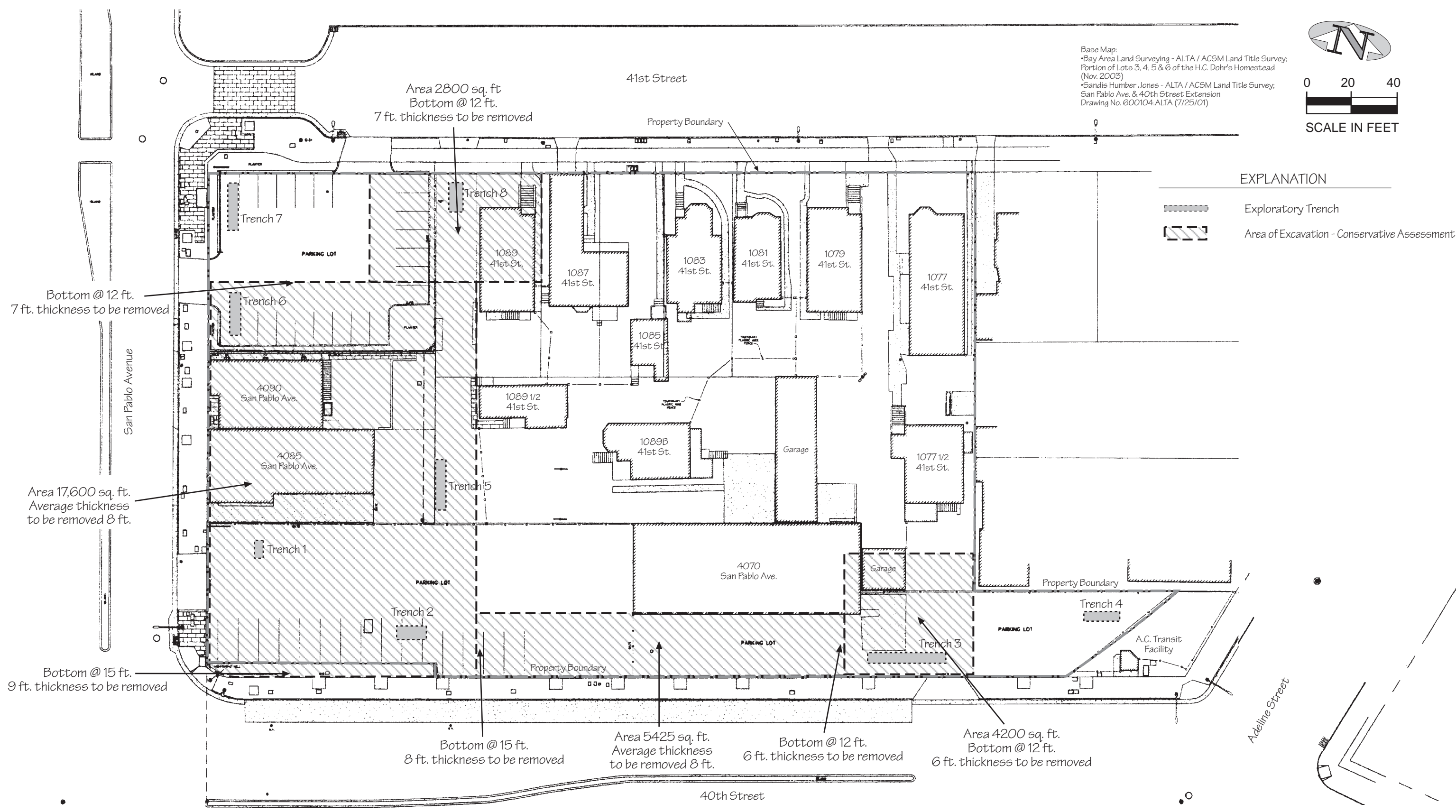


SCALE IN FEET

Base Map:  
•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)

EXPLANATION

-  Exploratory Trench
-  Area of Excavation - Conservative Assessment



AREAS TO BE REMEDIATED - CONSERVATIVE ASSESSMENT

Emeryville Corners Project  
Emeryville, California

FIG 6

**The San Joaquin Company Inc.**

Project Number: 0004.081

Drawn by: GNM Date: 01/17/04

Surface Elevation: 41.14 - 41.08 ft.

Depth to First Water: n/a ft.

Trench ID: **Trench 1**

Project: Emeryville Corners

Project No.: 0004.081

Trench Length at Surface: 13.0 ft.

Depth to Water on: Not measured ft.

Owner: Bay Rock Residential LLC

Location: San Pablo Avenue, Emeryville, California

Trench Width at Surface: 4.0 ft.

Date Excavated: 12/03/03

Excavation By: Dietz Irrigation

Maximum Depth of Trench: 8.5 ft.

Logged By: D J Watkins

Equipment Operator: H B Dietz

NOTES:  
1. Uniform Soil Classifications are from field observations only.  
No geotechnical engineering laboratory tests were performed.

2. All Elevations are in feet MSL.

Equipment Used: Case Backhoe

Depth (Feet)	Sample	Trench Log / Description
0		
2		
4		
6		
8	soil	
10	soil	
12		
14		
16		
18		
20		
22		<p><b>Exploratory Trench 1</b> Average trench width 4 feet, Trench Length 13 feet</p>
24		
26		
28		
30		

Surface Elevation: 44.61 - 45.11 ft.

Depth to First Water: n/a ft.

Trench Length at Surface: 12.5 ft.

Depth to Water on: Not measured ft.

Trench Width at Surface: 4.0 ft.

Maximum Depth of Trench: 8.5 ft.

NOTES:  
 1. Uniform Soil Classifications are from field observations only.  
 No geotechnical engineering laboratory tests were performed.

2. All Elevations are in feet MSL.

Trench ID: **Trench 2**

Project: Emeryville Corners

Project No.: 0004.081

Owner: Bay Rock Residential LLC

Location: San Pablo Avenue, Emeryville, California

Date Excavated: 12/03/03

Excavation By: Dietz Irrigation

Logged By: D J Watkins

Equipment Operator: H B Dietz

Equipment Used: Case Backhoe

Depth (Feet)	Sample	Trench Log / Description
0		<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>West El. 44.61'</p> </div> <div style="text-align: center;"> <p>East El. 45.11'</p> </div> </div>
2		
4		
6	soil	
8	soil	
10		
12		
14		
16		
18		
20		
22		<p><b>Exploratory Trench 2</b>                      Average trench width 4 feet, Trench Length 12.5 feet</p>
24		
26		
28		
30		



Surface Elevation: 44.61 - 45.11 ft.

Depth to First Water: 9.0 ft.

Trench ID: **Trench 3**

Project: Emeryville Corners

Project No.: 0004.081

Trench Length at Surface: 31.0 ft.

Depth to Water on: Not measured ft.

Owner: Bay Rock Residential LLC

Location: San Pablo Avenue, Emeryville, California

Trench Width at Surface: 4.0 ft.

Date Excavated: 12/03/03

Excavation By: Dietz Irrigation

Maximum Depth of Trench: 9.5 ft.

Logged By: D J Watkins

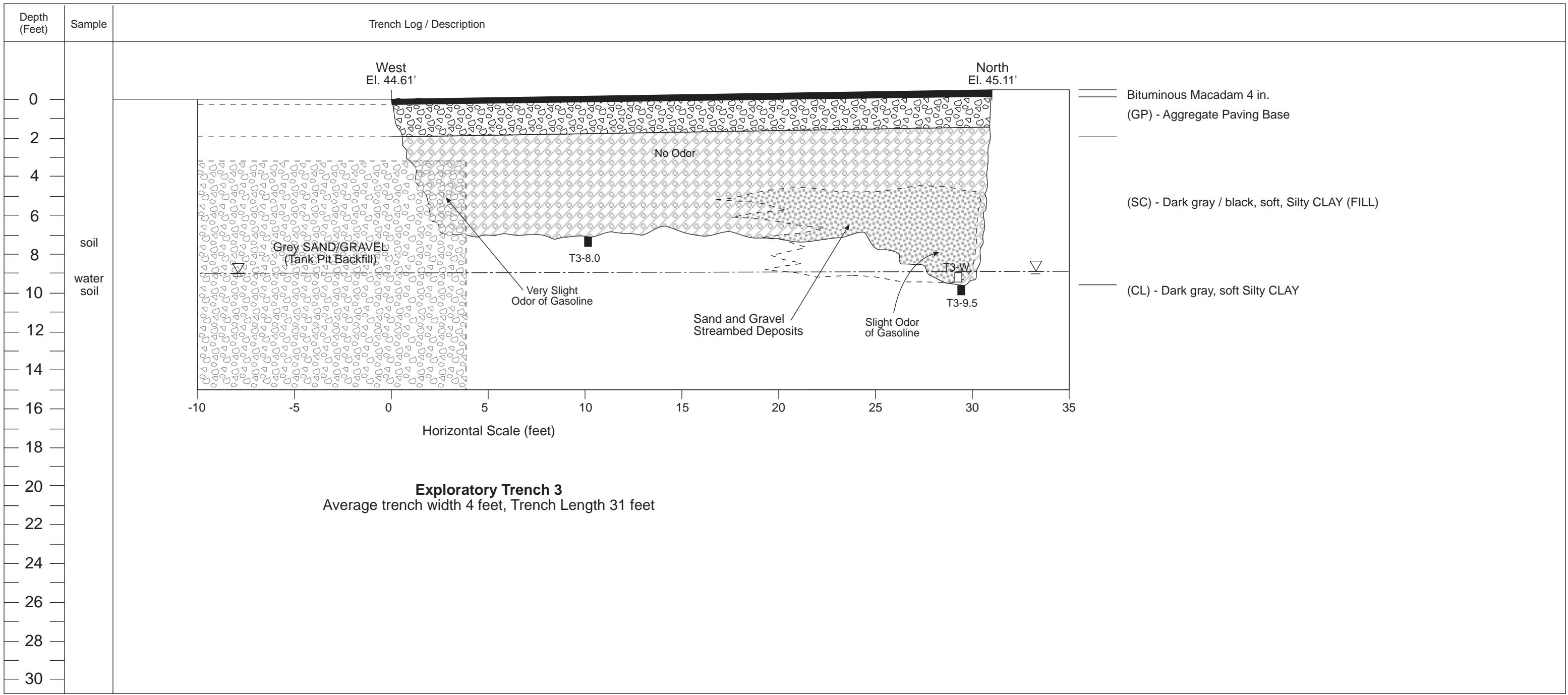
Equipment Operator: H B Dietz

**NOTES:**

1. Uniform Soil Classifications are from field observations only. No geotechnical engineering laboratory tests were performed.

2. All Elevations are in feet MSL.

Equipment Used: Case Backhoe



Surface Elevation: 45.77 - 45.83 ft.

Depth to First Water: n/a ft.

Trench ID: **Trench 4**

Project: Emeryville Corners

Project No.: 0004.081

Trench Length at Surface: 14.0 ft.

Depth to Water on: Not measured ft.

Owner: Bay Rock Residential LLC

Location: San Pablo Avenue, Emeryville, California

Trench Width at Surface: 4.0 ft.

Date Excavated: 12/03/03

Excavation By: Dietz Irrigation

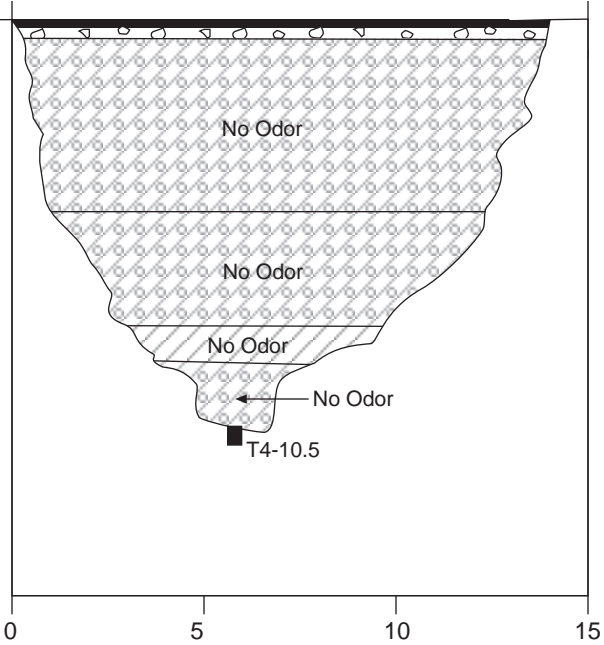
Maximum Depth of Trench: 10.5 ft.

Logged By: D J Watkins

Equipment Operator: H B Dietz

Equipment Used: Case Backhoe

NOTES:  
 1. Uniform Soil Classifications are from field observations only.  
 No geotechnical engineering laboratory tests were performed.  
 2. All Elevations are in feet MSL.

Depth (Feet)	Sample	Trench Log / Description
0	soil	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>West El. 45.77'</p> </div> <div style="text-align: center;"> <p>East El. 45.83'</p> </div> </div>  <div style="margin-top: 10px;"> <p>Bituminous Macadam, 2 in.              (GP) - Aggregate paving base, 4in.</p> <p>(SC) - Dark gray / black, soft Silty CLAY with some glass (FILL)</p> <p>(SC) - Light brown, medium stiff Silty CLAY</p> <p>(CL) - Gray / green, moderately stiff CLAY</p> <p>(SC) - Light brown, medium stiff Silty CLAY</p> </div>
2		
4		
6		
8		
10		
12		
14		
16		
18		
20		
22		<p><b>Exploratory Trench 4</b>                  Average trench width 4 feet, Trench Length 14.0 feet</p>
24		
26		
28		
30		

Surface Elevation: 42.18 - 42.22 ft.

Depth to First Water: n/a ft.

Trench ID: **Trench 5**

Project: Emeryville Corners

Project No.: 0004.081

Trench Length at Surface: 21.0 ft.

Depth to Water on: Not measured ft.

Owner: Bay Rock Residential LLC

Location: San Pablo Avenue, Emeryville, California

Trench Width at Surface: 4.0 ft.

Date Excavated: 12/02/03

Excavation By: Dietz Irrigation

Maximum Depth of Trench: 8.5 ft.

Logged By: D J Watkins

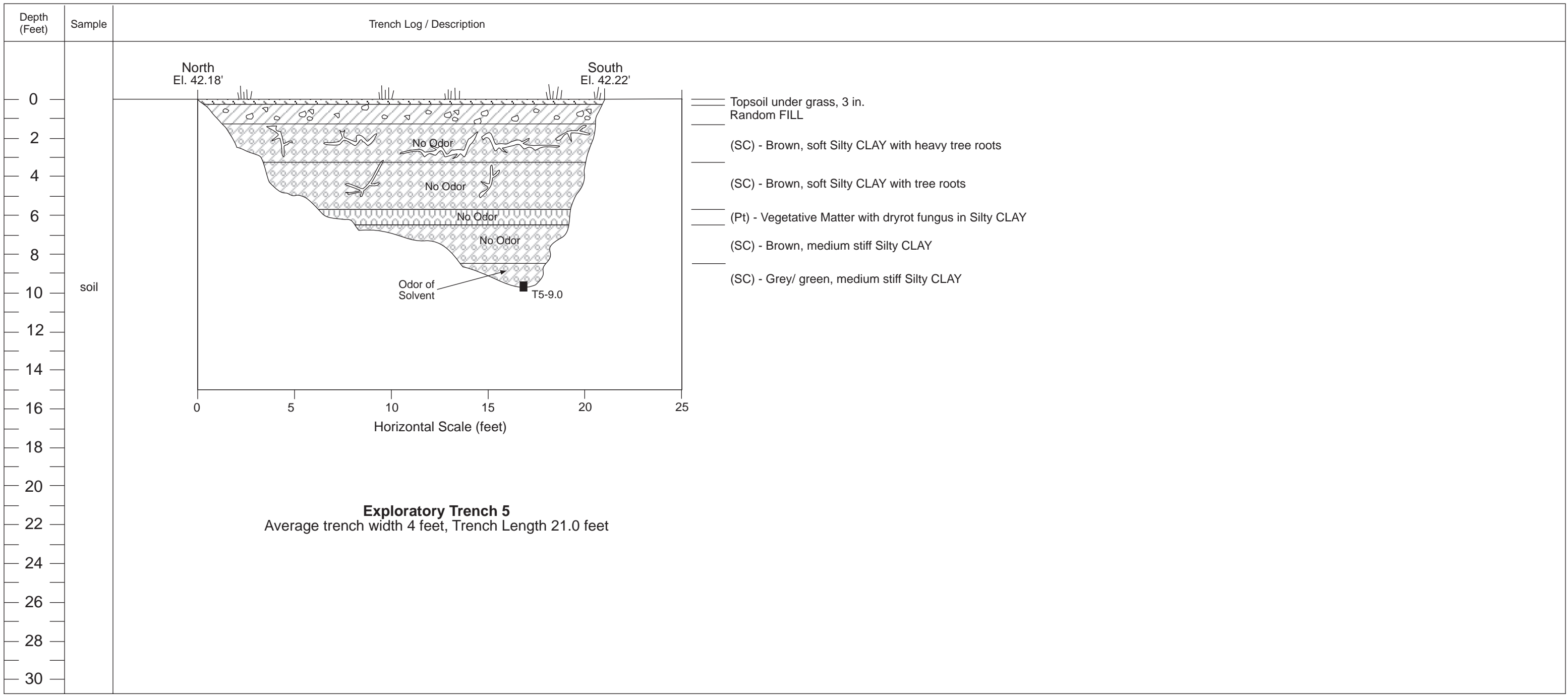
Equipment Operator: H B Dietz

**NOTES:**

1. Uniform Soil Classifications are from field observations only. No geotechnical engineering laboratory tests were performed.

2. All Elevations are in feet MSL.

Equipment Used: Case Backhoe



Surface Elevation: 41.14 - 40.66 ft.

Depth to First Water: n/a ft.

Trench ID: **Trench 6**

Project: Emeryville Corners

Project No.: 0004.081

Trench Length at Surface: 17.25 ft.

Depth to Water on: Not measured ft.

Owner: Bay Rock Residential LLC

Location: San Pablo Avenue, Emeryville, California

Trench Width at Surface: 4.0 ft.

Date Excavated: 12/02/03

Excavation By: Dietz Irrigation

Maximum Depth of Trench: 8.5 ft.

Logged By: D J Watkins

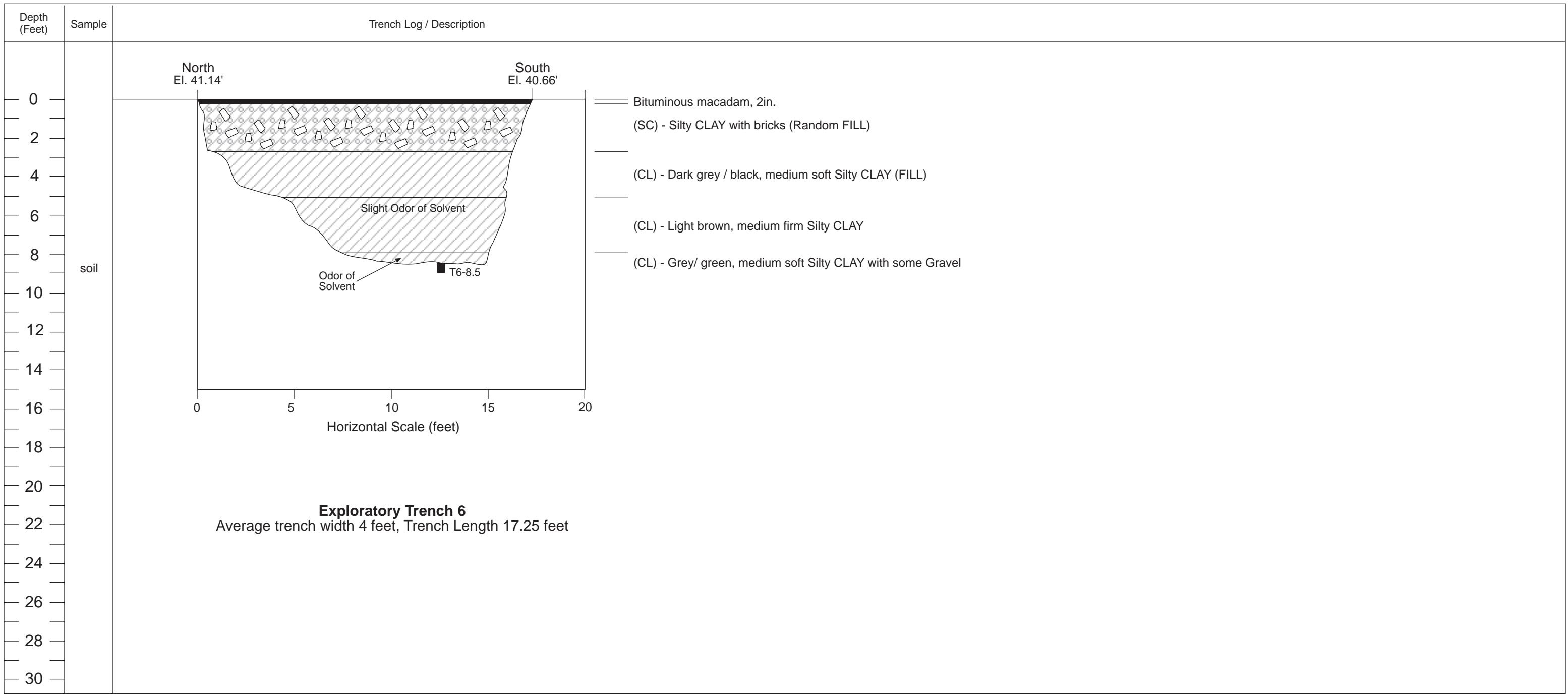
Equipment Operator: H B Dietz

**NOTES:**

1. Uniform Soil Classifications are from field observations only. No geotechnical engineering laboratory tests were performed.

2. All Elevations are in feet MSL.

Equipment Used: Case Backhoe



Surface Elevation: 41.50 - 41.43 ft.

Depth to First Water: 8.0 ft.

Trench ID: **Trench 7**

Project: Emeryville Corners

Project No.: 0004.081

Trench Length at Surface: 21.5 ft.

Depth to Water on: Not measured ft.

Owner: Bay Rock Residential LLC

Location: San Pablo Avenue, Emeryville, California

Trench Width at Surface: 4.0 ft.

Date Excavated: 12/02/03

Excavation By: Dietz Irrigation

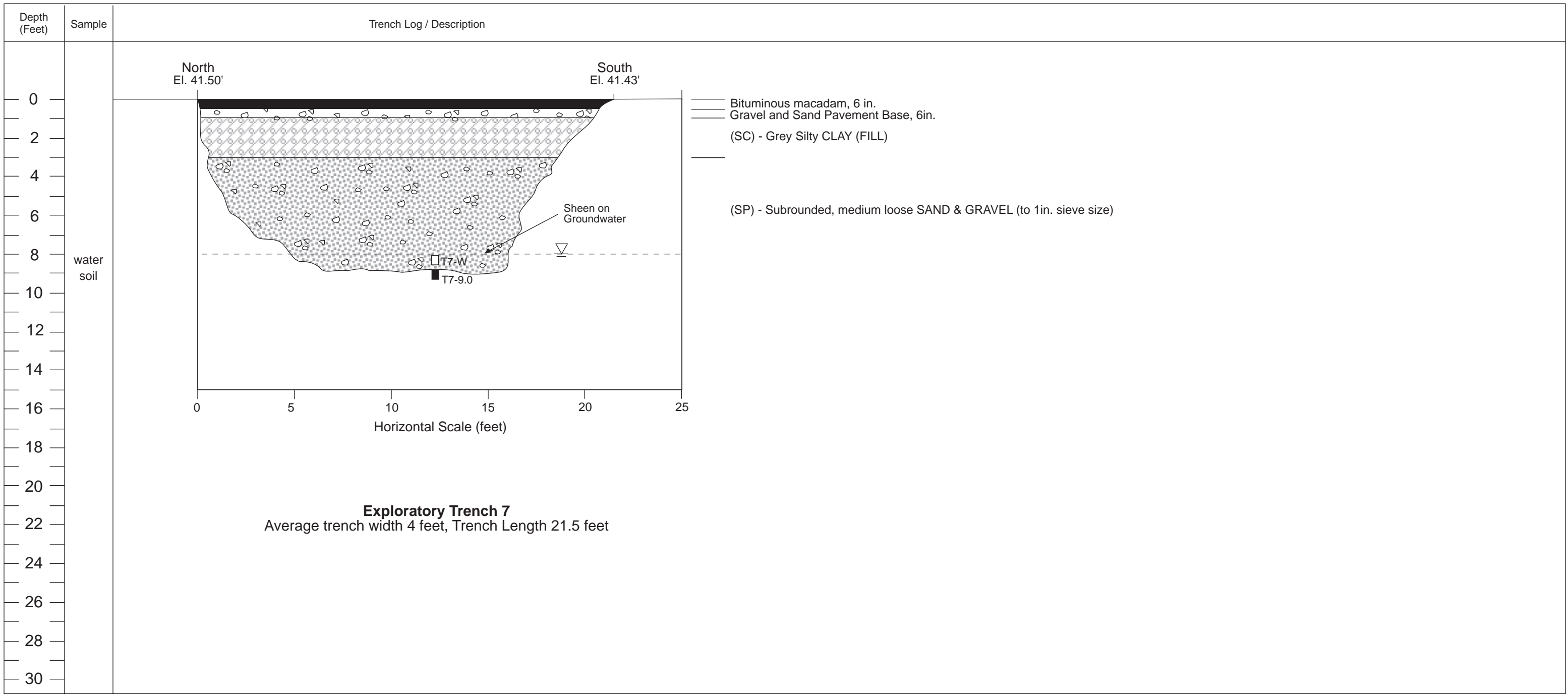
Maximum Depth of Trench: 9.5 ft.

Logged By: D J Watkins

Equipment Operator: H B Dietz

NOTES:  
 1. Uniform Soil Classifications are from field observations only. No geotechnical engineering laboratory tests were performed.  
 2. All Elevations are in feet MSL.

Equipment Used: Case Backhoe



Surface Elevation: 42.34 - 42.56 ft.

Depth to First Water: n/a ft.

Trench Length at Surface: 13.5 ft.

Depth to Water on: Not measured ft.

Trench Width at Surface: 4.0 ft.

Maximum Depth of Trench: 9.0 ft.

NOTES:  
 1. Uniform Soil Classifications are from field observations only.  
 No geotechnical engineering laboratory tests were performed.

2. All Elevations are in feet MSL.

Trench ID: **Trench 8**

Project: Emeryville Corners

Project No.: 0004.081

Owner: Bay Rock Residential LLC

Location: San Pablo Avenue, Emeryville, California

Date Excavated: 12/02/03

Excavation By: Dietz Irrigation

Logged By: D J Watkins

Equipment Operator: H B Dietz

Equipment Used: Case Backhoe

Depth (Feet)	Sample	Trench Log / Description
0		<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <p>North El. 42.34'</p> </div> <div style="text-align: center;"> <p>South El. 42.56'</p> </div> </div>
2		(GP) - Aggregate paving base, 4in.
4		(SC) - Dark gray / black, soft Silty CLAY (FILL)
6		(SC) - Light brown, soft to slightly firm Silty CLAY
8		(SC) - Gray / green, moderately firm Silty CLAY
10	soil	
12		
14		
16		
18		
20		
22		<p><b>Exploratory Trench 8</b>                      Average trench width 4 feet, Trench Length 13.5 feet</p>
24		
26		
28		
30		

CONCEPTUAL ESTIMATE FOR  
SITE CHARACTERIZATION AND REMEDIATION

**Detailed Cost Breakdown**

**Task 1 - Regulatory Negotiations (Site Characterization and Remediation Strategy)**

<b>Item</b>	<b>No.</b>	<b>Units</b>	<b>Unit Rate \$</b>	<b>Extension \$</b>
Engineer	20	Hours	95.00	1,900.00
Technician	4	Hours	45.00	180.00
Word Processor	2	Hours	35.00	70.00
Draftsperson	4	Hours	45.00	180.00
Field Vehicle	2	Day	35.00	70.00
Miscellaneous Expenses	1	Lot	300.00	300.00
15% of Engineer's Direct Costs	1	Lot	45.00	45.00
<b>Subtotal Task 1 - Regulatory Consultation</b>				<b>\$2,745.00</b>

**Task 2 - Prepare Site Characterization Work Plan**  
(Including Site-specific Health and Safety Plan)

<b>Item</b>	<b>No.</b>	<b>Units</b>	<b>Unit Rate \$</b>	<b>Extension \$</b>
Engineer	24	Hours	95.00	2,280.00
Technician	10	Hours	45.00	450.00
Draftsperson	12	Hours	45.00	540.00
Word Processor	6	Hours	35.00	210.00
Work Plan Reproduction	4	Units	30.00	120.00
Ship Work Plan	1	Lot	30.00	30.00
Miscellaneous Expenses	1	Lot	550.00	550.00
Regulatory Oversight Fee	1	Lot	5000.00	5,000.00
15% of Engineer's Direct Costs	1	Lot	855.00	855.00
<b>Subtotal Task 2 - Site Characterization Work Plan</b>				<b>\$10,035.00</b>

**Task 3A - Soil Borings and Groundwater Well Drilling and Installation A: Optimistic Assessment**

(C-57 Contractor's and drill cuttings and development disposal only.)

Item	No.	Units	Unit Rate \$	Extension \$
Drilling Contractor's Mobilization	1	Lot	400.00	400.00
Asphalt/Concrete Sawing for Well Vault	6	No.	50.00	300.00
Asphalt/Concrete Sawing for Boring	4	No.	30.00	120.00
Drill (Push Probe) 30 ft. Deep 2 in. Boring	1	No.	600.00	600.00
Drill (Push Probe) 25 ft. Deep 2 in. Boring	2	No.	500.00	1,000.00
Drill (Push Probe) 20 ft. Deep 2 in. Boring	3	No.	400.00	1,200.00
Drill for and Install 20 ft. Deep 2.0 in. Dia. Well	6	No.	760.00	4,560.00
Heavy Duty Well Head Vault (installed in paving) (2 in. dia. Well)	6	No	125.00	750.00
Develop 20 ft. Deep 2.0 in. Dia. Well	6	No	200.00	1,200.00
Pressure Grout 2 in Dia. 30 ft deep boring	1	No	600.00	600.00
Pressure Grout 2 in Dia.25 ft deep boring	2	No	500.00	1,000.00
Pressure Grout 2 in Dia.20 ft deep boring	3	No	400.00	1,200.00
Comply with Emeryville PD Traffic Safety Requirements	3	No.	100.00	300.00
55 Gallon Drums	3	No	50.00	150.00
500 Gallon Polyethylene Tank (delivered)	1	No	500.00	500.00
Dispose of Drill Cuttings	6	ton	50.00	300.00
Dispose of Development Water	150	gal.	5.00	750.00
Contingency and Standby	3	Hours	135.00	405.00
15% of Engineer's Direct Costs	1	Lot	2,300.25	2,300.25
<b>Subtotal Task 3A - Soil Borings and Monitoring Well Installation (A)</b>				<b>\$17,635.25</b>

**Task 3A - Soil Borings and Groundwater Well Drilling and Installation B: Best Estimate**

(C-57 Contractor's and drill cuttings and development disposal only.)

Item	No.	Units	Unit Rate \$	Extension \$
Drilling Contractor's Mobilization	1	Lot	400.00	400.00
Asphalt/Concrete Sawing for Well Vault	6	No.	50.00	300.00
Asphalt/Concrete Sawing for Boring	8	No.	30.00	240.00



Engineer's Estimate: Oak Walk Redevelopment Site

Item	No.	Units	Unit Rate \$	Extension \$
Drill (Push Probe) 30 ft. Deep 2 in. Boring	2	No.	600.00	1,200.00
Drill (Push Probe) 25 ft. Deep 2 in. Boring	4	No.	500.00	2,000.00
Drill (Push Probe) 20 ft. Deep 2 in. Boring	7	No.	400.00	2,800.00
Drill for and Install 20 ft. Deep 2.0 in. Dia. Well	8	No.	760.00	6,080.00
Heavy Duty Well Head Vault (installed in paving) (2 in. dia. Well)	8	No	125.00	1,000.00
Develop 20 ft. Deep 2.0 in. Dia. Well	8	No	200.00	1,600.00
Pressure Grout 2 in Dia. 30 ft deep boring	2	No	600.00	1,200.00
Pressure Grout 2 in Dia.25 ft deep boring	4	No	500.00	2,000.00
Pressure Grout 2 in Dia.20 ft deep boring	7	No	400.00	2,800.00
Comply with Emeryville PD Traffic Safety Requirements	5	No.	100.00	500.00
55 Gallon Drums	4	No	50.00	200.00
500 Gallon Polyethylene Tank (delivered)	1	No	500.00	500.00
Dispose of Drill Cuttings	7	ton	50.00	350.00
Dispose of Development Water	200	gal.	3.00	600.00
Contingency and Standby	4	Hours	135.00	540.00
15% of Engineer's Direct Costs	1	Lot	3,646.50	3,646.50
<b>Subtotal Task 3A - Soil Borings and Monitoring Well Installation (B)</b>				<b>\$27,956.50</b>

**Task 3A - Soil Borings and Groundwater Well Drilling and Installation C: Conservative Assessment**  
(C-57 Contractor's and drill cuttings and development disposal only.)

Item	No.	Units	Unit Rate \$	Extension \$
Drilling Contractor's Mobilization	1	Lot	400.00	400.00
Asphalt/Concrete Sawing for Well Vault	9	No.	30.00	270.00
Asphalt/Concrete Sawing for Boring	15	No.	50.00	750.00
Drill (Push Probe) 30 ft. Deep 2 in. Boring	3	No.	600.00	1,800.00
Drill (Push Probe) 25 ft. Deep 2 in. Boring	4	No.	500.00	2,000.00
Drill (Push Probe) 20 ft. Deep 2 in. Boring	14	No.	400.00	5,600.00
Drill for and Install 20 ft. Deep 2.0 in. Dia. Well	9	No.	760.00	6,840.00
Heavy Duty Well Head Vault (installed in paving) (2 in. dia. Well)	9	No	125.00	1,125.00

Engineer's Estimate: Oak Walk Redevelopment Site

Item	No.	Units	Unit Rate \$	Extension \$
Develop 20 ft. Deep 2.0 in. Dia. Well	9	No	200.00	1,800.00
Pressure Grout 2 in Dia. 30 ft deep boring	3	No	600.00	1,800.00
Pressure Grout 2 in Dia.25 ft deep boring	4	No	500.00	2,000.00
Pressure Grout 2 in Dia.20 ft deep boring	14	No	400.00	5,600.00
Comply with Emeryville PD Traffic Safety Requirements	7	No.	100.00	700.00
55 Gallon Drums	6	No	50.00	300.00
500 Gallon Polyethylene Tank (delivered)	1	No	500.00	500.00
Dispose of Drill Cuttings	8	ton	50.00	400.00
Dispose of Development Water	300	gal.	3.00	900.00
Contingency and Standby	5	Hours	135.00	675.00
15% of Engineer's Direct Costs	1	Lot	5,019.00	5,019.00
<b>Subtotal Task 3A - Soil Borings and Monitoring Well Installation (C)</b>				<b>\$38,479.00</b>

**TASK 3B - Field Eng. and First Round of Groundwater-quality Monitoring A: Optimistic Assessment**

Item	No.	Units	Unit Rate \$	Extension \$
Engineer	40	Hours	95.00	3,800.00
Field Technician	40	Hours	45.00	1,800.00
Field Vehicle	5	Day	35.00	175.00
Groundwater Depth Meter	5	Day	25.00	125.00
Electrical Sample Cooler	5	Day	2.00	10.00
Surveyor's Tape	5	Day	5.00	25.00
Engineer's Level	1	Day	27.50	27.50
Leveling Rod	1	Day	25.00	25.00
First Round of Groundwater Sampling and Analysis (Less reporting and analysis costs included 1n Tasks 3C and 5.)	1	Lot	2,700.00	2,700.00
Misc. Expenses	1	No.	150.00	150.00
15% of Engineer's Direct Costs	1	Lot	22.50	22.50
<b>Subtotal Task 3B - Field Eng and First Monit. Round (A)</b>				<b>8,860.00</b>

**TASK 3B - Field Eng. and First Round of Groundwater-quality Monitoring B: Best Estimate**

<b>Item</b>	<b>No.</b>	<b>Units</b>	<b>Unit Rate \$</b>	<b>Extension \$</b>
Engineer	48	Hours	95.00	4,560.00
Field Technician	48	Hours	45.00	2,160.00
Field Vehicle	6	Day	35.00	210.00
Groundwater Depth Meter	6	Day	25.00	150.00
Electrical Sample Cooler	6	Day	2.00	12.00
Surveyor's Tape	6	Day	5.00	30.00
Engineer's Level	1	Day	27.50	27.50
Leveling Rod	1	Day	25.00	25.00
First Round of Groundwater Sampling and Analysis (Less reporting and analysis costs included in Tasks 3C and 5.)	1	Lot	3,500.00	3,500.00
Misc. Expenses	1	No.	150.00	150.00
15% of Engineer's Direct Costs	1	Lot	22.50	22.50
<b>Subtotal Task 3B - Field Eng and First Monit. Round (B)</b>				<b>10,847.00</b>

**TASK 3B - Field Eng. and First Round of Groundwater-quality Monitoring C: Conservative Assess.**

<b>Item</b>	<b>No.</b>	<b>Units</b>	<b>Unit Rate \$</b>	<b>Extension \$</b>
Engineer	56	Hours	95.00	5,320.00
Field Technician	56	Hours	45.00	2,520.00
Field Vehicle	7	Day	35.00	245.00
Groundwater Depth Meter	7	Day	25.00	175.00
Electrical Sample Cooler	7	Day	2.00	14.00
Surveyor's Tape	7	Day	5.00	35.00
Engineer's Level	1	Day	27.50	27.50
Leveling Rod	1	Day	25.00	25.00
First Round of Groundwater Sampling and Analysis (Less reporting and analysis costs included in Tasks 3C and 5.)	1	Lot	4,000.00	4,000.00
Misc. Expenses	1	No.	200.00	200.00
15% of Engineer's Direct Costs	1	Lot	30.00	30.00
<b>Subtotal Task 3B - Field Eng and First Monit. Round (C)</b>				<b>12,591.50</b>

**Task 3C - Laboratory Analyses (Soil and Well Borings) A: Optimistic Assessment**

(Analysis of soil samples from borings and first round of groundwater quality monitoring using all extant groundwater monitoring wells.)

(Based on 100 ft. boring grid)

Item	No.	Units	Unit Rate \$	Extension \$
TPH (d) in Soil	52	No.	65.00	3,380.00
TPH (g) plus BTEX in Soil	52	No.	65.00	3,380.00
Volatile Organics in Soil EPA Method 8260B	24	No.	150.00	3,600.00
Polynuclear Aromatics in Soil EPA Method 8270C	24	No.	150.00	3,600.00
Electronic Geotracker Data File	52	No.	3.00	156.00
Constant Pressure Permeability Test	1	No.	300.00	300.00
15% of Engineer's Direct Costs	1	Lot	2,162.40	2,162.40
<b>Subtotal Task 3C - Laboratory Analyses (A)</b>				<b>\$16,578.40</b>

**Task 3C - Laboratory Analyses (Soil and Well Borings) B: Best Estimate**

(Analysis of soil samples from borings and first round of groundwater quality monitoring using all extant groundwater monitoring wells.)

(Based on 75 ft. boring grid)

Item	No.	Units	Unit Rate \$	Extension \$
TPH (d) in Soil	64	No.	65.00	4,160.00
TPH (g) plus BTEX in Soil	64	No.	65.00	4,160.00
Volatile Organics in Soil EPA Method 8260B	64	No.	150.00	9,600.00
Polynuclear Aromatics in Soil EPA Method 8270C	22	No.	150.00	3,300.00
Electronic Geotracker Data File	22	No.	3.00	66.00
Constant Pressure Permeability Test	2	No.	300.00	600.00
15% of Engineer's Direct Costs	1	Lot	3,282.90	3,282.90
<b>Subtotal Task 3C - Laboratory Analyses (B)</b>				<b>\$25,168.90</b>

**Task 3C - Laboratory Analyses (Soil and Well Borings) C: Conservative Assessment**

(Analysis of soil samples from borings and first round of groundwater quality monitoring using all extant groundwater monitoring wells.)

(Based on 50 ft. boring grid)

Item	No.	Units	Unit Rate \$	Extension \$
TPH (d) in Soil	130	No.	65.00	8,450.00
TPH (g) plus BTEX in Soil	130	No.	65.00	8,450.00
Volatile Organics in Soil EPA Method 8260B	130	No.	150.00	19,500.00

Item	No.	Units	Unit Rate \$	Extension \$
Polynuclear Aromatics in Soil EPA Method 8270C	130	No.	150.00	19,500.00
Electronic Geotracker Data File	130	No.	3.00	95.00
Constant Pressure Permeability Test	3	No.	300.00	900.00
15% of Engineer's Direct Costs	1	Lot	8,534.25	8,534.25
<b>Subtotal Task 3C - Laboratory Analyses (C)</b>				<b>65,429.25</b>

**Task 3D - Well Head and Boring Location Survey for Compliance with State Water Resources Control Board Title 23 GeoTracker Regulations**

(Includes elevational survey of all well heads and latitude and longitude of wells and borings.)

Item	No.	Units	Unit Rate \$	Extension \$
Assistant Engineer	1.5	Hours	75.00	112.50
California Licensed LS and Party	1	Lot	3000.00	3,000.00
Misc. Exp	1	Lot	100.00	100.00
15% of Direct Costs	1	Lot	465.00	465.00
<b>Subtotal Task 3D - Well Head Survey</b>				<b>3,677.50</b>

**TASK 4 - Round of Groundwater Quality Monitoring A: Optimistic Assessment**

(Including recovery and analysis of samples from all groundwater-quality monitoring wells plus groundwater-quality monitoring report.)

Item	No.	Units	Unit Rate \$	Extension \$
Engineer	16	Hours	95.00	1,520.00
Field Technician	8	Hours	45.00	360.00
Technician	4	Hours	45.00	180.00
Draftsperson	10	Hours	45.00	450.00
Word Processor	3	Hours	35.00	105.00
Field Vehicle	1	Day	35.00	35.00
Groundwater Depth Meter	1	Day	25.00	25.00
Submersible pump	1	Day	25.00	25.00
pH/Temp./Conductivity Meter	1	Day	50.00	50.00
Disposable Bailer	6	No.	6.73	95.00

Engineer's Estimate: Oak Walk Redevelopment Site

Item	No.	Units	Unit Rate \$	Extension \$
Electrical Sample Cooler	1	Day	2.00	2.00
TPH (d) in Water with EPA Method 3630M Cleanup	6	No.	90.00	540.00
TPH (g), BTEX, Fuel Oxyg., EDB and EDC In Water	6	No.	150.00	900.00
Volatile Organics in Water EPA Method 8260B	6	No.	150.00	900.00
Polynuclear Aromatics in Water EPA Method 2070C	6	No.	150.00	900.00
Electronic Geotracker Data File	6	No.	3.00	95.00
Monitoring Report Reproduction	6	No.	20.00	120.00
Disposal of Purge Water	90	gal.	3.00	270.00
Shipping Monitoring Report	1	Lot	25.00	25.00
Misc. Expenses	1	No.	150.00	150.00
15% of Engineer's Direct Costs	1	Lot	712.01	712.01
<b>Subtotal Task 4 - Monitoring Round (A) *</b>				<b>7,459.01</b>

\* **Note:** Assume 3 additional rounds of groundwater-quality monitoring for Optimistic Assessment

**TASK 4 - Round of Groundwater Quality Monitoring B: Best Estimate**

(Including recovery and analysis of samples from all groundwater-quality monitoring wells plus groundwater-quality monitoring report.)

Item	No.	Units	Unit Rate \$	Extension \$
Engineer	16	Hours	95.00	1,520.00
Field Technician	8	Hours	45.00	360.00
Technician	4	Hours	45.00	180.00
Draftsperson	10	Hours	45.00	450.00
Word Processor	3	Hours	35.00	105.00
Field Vehicle	1	Day	35.00	35.00
Groundwater Depth Meter	1	Day	25.00	25.00
Submersible pump	1	Day	25.00	25.00
pH/Temp./Conductivity Meter	1	Day	50.00	50.00
Disposable Bailer	8	No.	6.73	95.00
Electrical Sample Cooler	1	Day	2.00	2.00
TPH (d) in Water with EPA Method 3630M Cleanup	8	No.	90.00	720.00
TPH (g), BTEX, Fuel Oxyg., EDB and EDC In Water	8	No.	150.00	1,200.00

Item	No.	Units	Unit Rate \$	Extension \$
Volatile Organics in Water EPA Method 8260B	8	No.	150.00	1,200.00
Polynuclear Aromatics in Water EPA Method 2070C	8	No.	150.00	1,200.00
Electronic Geotracker Data File	8	No.	3.00	95.00
Monitoring Report Reproduction	6	No.	20.00	120.00
Disposal of Purge Water	125	gal.	3.00	375.00
Shipping Monitoring Report	1	Lot	25.00	25.00
Misc. Expenses	1	No.	50.00	50.00
15% of Engineer's Direct Costs	1	Lot	762.30	762.30
<b>Subtotal Task 4 - Monitoring Round (B)</b>				<b>8,594.30</b>

\* **Note:** Assume 7 additional rounds of groundwater-quality monitoring for Best Estimate

**TASK 4 - Round of Groundwater Quality Monitoring C: Conservative Assessment**

(Including recovery and analysis of samples from all groundwater-quality monitoring wells plus groundwater-quality monitoring report.)

Item	No.	Units	Unit Rate \$	Extension \$
Assistant Engineer	20	Hours	95.00	1,900.00
Field Technician	8	Hours	45.00	360.00
Technician	5	Hours	45.00	225.00
Draftsperson	12	Hours	45.00	540.00
Word Processor	4	Hours	35.00	140.00
Field Vehicle	1	Day	35.00	35.00
Groundwater Depth Meter	1	Day	25.00	25.00
Submersible pump	1	Day	25.00	25.00
pH/Temp./Conductivity Meter	1	Day	50.00	50.00
Disposable Bailer	9	No.	6.73	95.00
Electrical Sample Cooler	1	Day	2.00	2.00
TPH (d) in Water with EPA Method 3630M Cleanup	9	No.	90.00	810.00
TPH (g), BTEX, Fuel Oxyg., EDB and EDC In Water	9	No.	150.00	1,350.00
Volatile Organics in Water EPA Method 8260B	9	No.	150.00	1,350.00
Polynuclear Aromatics in Water EPA Method 2070C	9	No.	150.00	1,350.00
Electronic Geotracker Data File	9	No.	3.00	95.00

Item	No.	Units	Unit Rate \$	Extension \$
Monitoring Report Reproduction	6	No.	20.00	120.00
Disposal of Purge Water	135	gal.	3.00	405.00
Shipping Monitoring Report	1	Lot	25.00	25.00
Misc. Expenses	1	No.	150.00	150.00
15% of Engineer's Direct Costs	1	Lot	862.80	862.80
<b>Subtotal Task 4 - Monitoring Round (C)</b>				<b>9,914.80</b>

\* **Note:** Assume 15 additional rounds of groundwater-quality monitoring for Conservative Assessment

**Task 5 - Site Characterization Report A: Optimistic Assessment**

Item	No.	Units	Unit Rate \$	Extension \$
Engineer	32	Hours	95.00	3,040.00
Technician	16	Hours	45.00	720.00
Draftsperson	40	Hours	45.00	1,800.00
Word Processor	12	Hours	35.00	420.00
Report Reproduction	4	Unit	30.00	120.00
Shipping Report Reproduction	1	Lot	30.00	30.00
Misc. Exp	1	Lot	50.00	50.00
15% of Direct Costs	1	Lot	30.00	30.00
<b>Subtotal Task 5 - Site Characterization Report (A)</b>				<b>6,210.00</b>

**Task 5 - Site Characterization Report B: Best Estimate**

Item	No.	Units	Unit Rate \$	Extension \$
Engineer	40	Hours	95.00	3,800.00
Technician	24	Hours	45.00	1,080.00
Draftsperson	50	Hours	45.00	2,250.00
Word Processor	16	Hours	35.00	560.00
Report Reproduction	4	Unit	40.00	160.00
Shipping Report Reproduction	1	Lot	30.00	30.00
Misc. Exp	1	Lot	50.00	50.00
15% of Direct Costs	1	Lot	36.00	36.00



**Subtotal Task 5 - Site Characterization Report (B) 7,966.00**

**Task 5 - Site Characterization Report C: Conservative Assessment**

<b>Item</b>	<b>No.</b>	<b>Units</b>	<b>Unit Rate \$</b>	<b>Extension \$</b>
Engineer	48	Hours	95.00	4,560.00
Technician	28	Hours	45.00	1,260.00
Draftsperson	60	Hours	45.00	2,700.00
Word Processor	20	Hours	35.00	700.00
Report Reproduction	4	Unit	45.00	180.00
Shipping Report Reproduction	1	Lot	35.00	35.00
Misc. Exp	1	Lot	50.00	50.00
15% of Direct Costs	1	Lot	39.75	39.75
<b>Subtotal Task 5 - Site Characterization Report (C)</b>				<b>9,524.75</b>

**Task 6A - Remediation Work Plan with Tier 2 Human Health Risk Assessment**

<b>Item</b>	<b>No.</b>	<b>Units</b>	<b>Unit Rate \$</b>	<b>Extension \$</b>
Engineer	24	Hours	95.00	2,280.00
Technician	16	Hours	45.00	720.00
Draftsperson	32	Hours	45.00	1,440.00
Word Processor	12	Hours	35.00	420.00
Tier 2 RBCA (On Site Human Health Risk only Including Report as Separate Volume of Work Plan)	1	Lot	30,000.00	30,000.00
Report Reproduction	4	Unit	40.00	160.00
Shipping Report Reproduction	1	Lot	30.00	30.00
Regulatory Oversight Fee	1	Lot	2,000.00	2,000.00
Misc. Exp	1	Lot	50.00	50.00
15% of Direct Costs	1	Lot	336.00	336.00
<b>Subtotal Task 6A - Remediation Work Plan</b>				<b>37,436.00</b>

**Task 6B - Remediation A: Optimistic Assessment**

<b>Item</b>	<b>No.</b>	<b>Units</b>	<b>Unit Rate \$</b>	<b>Extension \$</b>
Soil Remediation *	3117	cu yds	43.25	134,810.25
Regulatory Oversight Fee	1	Lot	1,000.00	1,000.00
<b>Subtotal Task 6B - Remediation (A)</b>				<b>\$135,810.25</b>

\* **Note:** Includes excavation and stockpiling of clean overburden, excavation and off-site disposal of contaminated soil, importation and placement of crushed rock in excavations below water table, confirmation soil and groundwater sampling and analysis, field engineering for oversight of remediation, regulatory consultations, and remediation report. Does **not** include importation and compaction of imported materials to restore site, or removal from stockpile and replacement of clean overburden.

**Task 6B - Remediation B: Best Estimate**

<b>Item</b>	<b>No.</b>	<b>Units</b>	<b>Unit Rate \$</b>	<b>Extension \$</b>
Soil Remediation *	4681	cu yds	43.25	202,453.25
Regulatory Oversight Fee	1	Lot	2,000.00	2,000.00
<b>Subtotal Task B - Remediation (B)</b>				<b>\$204,453.25</b>

\* **Note:** Includes excavation and stockpiling of clean overburden, excavation and off-site disposal of contaminated soil, importation and placement of crushed rock in excavations below water table, confirmation soil and groundwater sampling and analysis, field engineering for oversight of remediation, regulatory consultations, and remediation report. Does **not** include importation and compaction of imported materials to restore site, or removal from stockpile and replacement of clean overburden.

**Task 6B - Remediation C: Conservative Assessment**

<b>Item</b>	<b>No.</b>	<b>Units</b>	<b>Unit Rate \$</b>	<b>Extension \$</b>
Soil Remediation *	7,756	cu yds	43.25	335,447.00
Regulatory Oversight Fee	1	Lot	5,000.00	5,000.00
<b>Subtotal Task 6B - Remediation (C)</b>				<b>\$340,447.00</b>

\* **Note:** Includes excavation and stockpiling of clean overburden, excavation and off-site disposal of contaminated soil, importation and placement of crushed rock in excavations below water table, confirmation soil and groundwater sampling and analysis, field engineering for oversight of remediation, regulatory consultations, and remediation report. Does **not** include importation and compaction of imported materials to restore site, or removal from stockpile and replacement of clean overburden.

**Task 6C - Site Restoration A: Optimistic Assessment**

(Importation, compaction and density testing of replacement fill to replace exported contaminated soil only.)

Item	No.	Units	Unit Rate \$	Extension \$
Compaction Curve	1	No.	250.00	250.00
Imported Engineering Fill (delivered)	3,117	cu yds	5.00	15,585.00
Placement and Compaction	3,117	cu yds	5.00	15,585.00
Density Testing	1	Lot	1,800.00	1,800.00
<b>Subtotal Task 6C - Site Restoration (A)</b>				<b>33,220.00</b>

**Task 6C - Site Restoration B: Best Estimate**

(Importation, compaction and density testing of replacement fill to replace exported contaminated soil only.)

Item	No.	Units	Unit Rate \$	Extension \$
Compaction Curve	2	No.	250.00	500.00
Imported Engineering Fill (delivered)	4,681	cu yds	10.00	46,810.00
Placement and Compaction	4,681	cu yds	5.00	23,405.00
Density Testing	1	Lot	2,000.00	2,000.00
<b>Subtotal Task 6C - Site Restoration (B)</b>				<b>72,715.00</b>

**Task 6C - Site Restoration C: Conservative Assessment**

(Importation, compaction and density testing of replacement fill to replace exported contaminated soil only.)

Item	No.	Units	Unit Rate \$	Extension \$
Compaction Curve	3	No.	250.00	750.00
Imported Engineering Fill (delivered)	7,756	cu yds	15.00	116,340.00
Placement and Compaction	7,756	cu yds	5.00	38,780.00
Density Testing	1	Lot	3,000.00	3,000.00
<b>Subtotal Task 6C - Site Restoration (C)</b>				<b>158,870.00</b>

**TASK 7- Impermeable Barrier Under Occupied Structures A: Optimistic Assessment**

Item	No.	Units	Unit Rate \$	Extension \$
Liquid Boot (Installed on geotextile substrate)	23,000	ft sq.	3.00	69,000.00
<b>Subtotal Task 7 - Foundation Slab Imp. Barriers (A)</b>				<b>69,000.00</b>

**TASK 7 - Impermeable Barrier Under Occupied Structures B: Best Estimate**

<b>Item</b>	<b>No.</b>	<b>Units</b>	<b>Unit Rate \$</b>	<b>Extension \$</b>
Liquid Boot (Installed on geotextile substrate)	53,800	ft sq.	3.50	188,300.00
<b>Subtotal Task 7 - Foundation Slab Imp. Barriers (B)</b>				<b>188,300.00</b>

**TASK 7 - Impermeable Barrier Under Occupied Structures C: Conservative Assessment**

<b>Item</b>	<b>No.</b>	<b>Units</b>	<b>Unit Rate \$</b>	<b>Extension \$</b>
Liquid Boot (Installed on geotextile substrate)	53,800	ft sq.	4.00	215,200.00
<b>Subtotal Task 7 - Foundation Slab Imp. Barriers (C)</b>				<b>215,200.00</b>

**TASK 8 - Final Regulatory Site Closure A: Optimistic Assessment**

<b>Item</b>	<b>No.</b>	<b>Units</b>	<b>Unit Rate \$</b>	<b>Extension \$</b>
Engineer	20	Hours	95.00	1,900.00
Field Technician	8	Hours	45.00	360.00
Technician	4	Hours	45.00	180.00
Draftsperson	8	Hours	45.00	360.00
Word Processor	6	Hours	35.00	210.00
Field Vehicle	1	Day	35.00	35.00
Drilling Contractor's Mobilization	1	Lot	350.00	350.00
Grout 2 in. dia. Well 25 ft deep	6	No.	300.00	1,800.00
Disposal of Displaced Groundwater	50	gal.	3.00	150.00
Excavate and Dispose Well Vault	6	No.	40.00	240.00
Repave Well Vault Excavations	6	No.	100.00	600.00
Comply with Emeryville PD Traffic Safety Requirements	4	No.	100.00	400.00
Remove and Dispose 500 gallon Holding Tank	1	Lot	300.00	300.00
Regulatory Oversight Fee	1	Lot	1000.00	1,000.00
Site Closure Report Reproduction	4	No.	25.00	100.00
Shipping Site Closure Report	1	Lot	25.00	25.00
Misc. Expenses	1	No.	100.00	100.00
15% of Engineer's Direct Costs	1	Lot	1,216.50	1,216.50
<b>Subtotal Task 8 - Site Closure (A)</b>				<b>\$9,326.50</b>

**TASK 8 - Final Regulatory Site Closure B: Best Estimate**

(Including final round of groundwater-quality monitoring and evaluation of intrinsic remediation [groundwater])

<b>Item</b>	<b>No.</b>	<b>Units</b>	<b>Unit Rate \$</b>	<b>Extension \$</b>
Engineer	20	Hours	90.00	1,800.00
Technician	8	Hours	40.00	320.00
Draftsperson	12	Hours	40.00	480.00
Word Processor	6	Hours	35.00	210.00
Field Vehicle	1	Day	35.00	35.00
Standard round of Groundwater Monitoring (minus report)	1	Lot	7200.00	7,200.00
Field Filtration Kit for Ferrous Iron	8	No.	10.00	95.00
Natural Attenuation Analytical Suite *	8	No.	210.00	1,680.00
Total Organic Carbon in Water	8	No.	35.00	280.00
General Minerals in Groundwater	8	No.	170.00	1,360.00
Drilling Contractor's Mobilization	1	Lot	350.00	350.00
Grout 2 in. dia. Well 05 ft deep	8	No.	300.00	2,400.00
Disposal of Displaced Groundwater	550	gal.	3.00	1,650.00
Excavate and Dispose Well Vault	8	No.	40.00	320.00
Repave Well Vault Excavations	8	No.	100.00	800.00
Comply with Emeryville PD Traffic Safety Requirements	6	No.	100.00	600.00
Remove and Dispose 500 gallon Holding Tank	1	Lot	300.00	300.00
Site Closure Report Reproduction	4	No.	35.00	140.00
Shipping Site Closure Report	1	Lot	25.00	25.00
Regulatory Oversight Fee	1	Lot	1,000.00	1,000.00
Misc. Expenses	1	No.	100.00	100.00
15% of Engineer's Direct Costs	1	Lot	4241.70	4,241.70
<b>Subtotal Task 8 - Site Closure (B)</b>				<b>\$25,386.70</b>

\* Natural Attenuation Analytical Suite Includes: alkalinity, ferrous iron, manganese, nitrate, sulfate, methane and carbon dioxide

**TASK 8 - Final Regulatory Site Closure C: Conservative Assessment**

(Including final round of groundwater-quality monitoring, evaluation of intrinsic remediation [soil and groundwater] and final human health risk assessment.)

Item	No.	Units	Unit Rate \$	Extension \$
Engineer	32	Hours	95.00	3,040.00
Field Technician	8	Hours	40.00	320.00
Technician	16	Hours	40.00	640.00
Draftsperson	32	Hours	40.00	1,280.00
Word Processor	16	Hours	35.00	560.00
Field Vehicle	1	Day	35.00	35.00
Standard round of Groundwater Monitoring (minus report)	1	Lot	7200.00	7,200.00
Field Filtration Kit for Ferrous Iron	9	No.	10.00	95.00
Natural Attenuation Analytical Suite *	9	No.	210.00	1,890.00
Total Organic Carbon in Water	9	No.	35.00	315.00
General Minerals in Groundwater	9	No.	170.00	1,530.00
Drilling Contractor's Mobilization	1	Lot	350.00	350.00
Drill 2 in. dia. Boring to 20 ft. (Push Probe))	3	No.	400.00	1,200.00
Dispose of Drill Cuttings	0.4	ton	500.00	200.00
TPH (d) in Soil	12	No.	90.00	1,080.00
TPH (g), BTEX, Fuel Oxyg., EDB and EDC in Soil	12	No.	150.00	1,800.00
Volatile Organics in Soil EPA Method 8260B	12	No.	150.00	1,800.00
Polynuclear Aromatics in Soil EPA Method 2070C	12	No.	150.00	1,800.00
Total Organic Carbon in Soil	12	No.	125.00	1,500.00
Electronic Geotracker Data File	12	No.	3.00	95.00
Grout 2 in. dia. Well to 20 ft.	9	No.	240.00	2,160.00
Grout 2 in. dia. Boring to 20 ft.	3	No.	240.00	720.00
Disposal of Displaced Groundwater	50	gal.	3.00	150.00
Excavate and Dispose Well Vault	9	No.	30.00	270.00
Repave Well Vault Excavations	9	No.	50.00	450.00
Comply with Emeryville PD Traffic Safety Requirements	7	No.	100.00	700.00
Remove and Dispose 500 gallon Holding Tank	1	Lot	300.00	300.00
Final RBCA	1	Lot	15,000.00	15,000.00

*Engineer's Estimate: Oak Walk Redevelopment Site*

(Human Health Risk - Extension of Previous Assessment)



Engineer's Estimate: Oak Walk Redevelopment Site

Item	No.	Units	Unit Rate \$	Extension \$
Site Closure Report Reproduction	4	No.	50.00	200.00
Shipping Site Closure Report	1	Lot	25.00	25.00
Regulatory Oversight Fee	1	Lot	2,000.00	2,000.00
Misc. Expenses	1	No.	100.00	100.00
15% of Engineer's Direct Costs	1	Lot	5,359.50	5,359.50
<b>Subtotal Task 8 - Site Closure (C)</b>				<b>\$54,164.50</b>

\* Natural Attenuation Analytical Suite Includes: alkalinity, ferrous iron, manganese, nitrate, sulfate, methane and carbon dioxide

**Remediation Volumes A: Optimistic Assumptions**

Area	Area ft. sq	Thickness ft	Volume cu yd
41st St. Parking Lot to 40th. St	8,000	7	2,074
Along 40th. St.	2,000	8	593
Stream bed deposits at SF Bread Co. Tank	2,025	6	450
<b>Total Volume Contaminated Soil to be Removed (A)</b>			<b>3,117</b>

**Remediation Volumes B: Best Estimate**

Area	Area ft. sq	Thickness ft	Volume cu yd
41st St. Parking Lot to 40th. St	12,800	8	3,793
Along 40th. St.	1,125	8	333
Stream bed deposits at SF Bread Co. Tank	2,500	6	556
<b>Total Volume Contaminated Soil to be Removed (B)</b>			<b>4,681</b>

**Remediation Volumes C: Conservative Assessment**

Area	Area ft. sq	Thickness Av. ft	Volume cu yd
41st St. Parking Lot to 40th. St	17,600	8	5,215
Along 40th. St.	5,425	8	1,607
Stream bed deposits at SF Bread Co. Tank	4,200	6	933
Around Trench 8 along 41st. St.	2,800	8	830
<b>Total Volume Contaminated Soil to be Removed (C)</b>			<b>8,585</b>

**San Joaquin Company, Inc.**

December 15, 2003

33233 S. Koster Road  
Tracy, CA 95304-9142

Attn.: Bernie Dietz

Project#: 0004.081

Project: Bay Rock Emeryville Corners

Dear Bernie,

Attached is our report for your samples received on 12/04/2003 16:55

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

Please note that any unused portion of the samples will be discarded after 01/18/2004 unless you have requested otherwise.

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

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

Sincerely,



Vincent Vancil  
Project Manager

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
T8-8.5	12/02/2003 13:15	Soil	13

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s):	5035	Test(s):	8260B
Sample ID:	<b>T8-8.5</b>	Lab ID:	2003-12-0190 - 13
Sampled:	12/02/2003 13:15	Extracted:	12/16/2003 14:04
Matrix:	Soil	QC Batch#:	2003/12/16-02.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	2500	ug/Kg	1.00	12/16/2003 14:04	
Acetone	ND	25000	ug/Kg	1.00	12/16/2003 14:04	
Benzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Bromodichloromethane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Bromoform	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Bromomethane	ND	500	ug/Kg	1.00	12/16/2003 14:04	
Carbon tetrachloride	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Chlorobenzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Chloroethane	ND	500	ug/Kg	1.00	12/16/2003 14:04	
2-Butanone(MEK)	ND	25000	ug/Kg	1.00	12/16/2003 14:04	
2-Chloroethylvinyl ether	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Chloroform	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Chloromethane	ND	500	ug/Kg	1.00	12/16/2003 14:04	
Dibromochloromethane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,2-Dichlorobenzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,3-Dichlorobenzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,4-Dichlorobenzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,3-Dichloropropane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
2,2-Dichloropropane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,1-Dichloropropene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,2-Dibromo-3-chloropropane	ND	2500	ug/Kg	1.00	12/16/2003 14:04	
1,2-Dibromoethane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Dibromomethane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Dichlorodifluoromethane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,1-Dichloroethane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,2-Dichloroethane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,1-Dichloroethene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
cis-1,2-Dichloroethene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
trans-1,2-Dichloroethene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,2-Dichloropropane	ND	250	ug/Kg	1.00	12/16/2003 14:04	

Sewern Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/22/2003 16:39

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s):	5035	Test(s):	8260B
Sample ID:	<b>T8-8.5</b>	Lab ID:	2003-12-0190 - 13
Sampled:	12/02/2003 13:15	Extracted:	12/16/2003 14:04
Matrix:	Soil	QC Batch#:	2003/12/16-02.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
trans-1,3-Dichloropropene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Ethylbenzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Hexachlorobutadiene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
2-Hexanone	ND	25000	ug/Kg	1.00	12/16/2003 14:04	
Methylene chloride	ND	2500	ug/Kg	1.00	12/16/2003 14:04	
4-Methyl-2-pentanone (MIBK)	ND	25000	ug/Kg	1.00	12/16/2003 14:04	
Naphthalene	ND	500	ug/Kg	1.00	12/16/2003 14:04	
Styrene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Tetrachloroethene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Toluene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,1,1-Trichloroethane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,1,2-Trichloroethane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Trichloroethene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Vinyl acetate	ND	2500	ug/Kg	1.00	12/16/2003 14:04	
Vinyl chloride	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Total xylenes	ND	500	ug/Kg	1.00	12/16/2003 14:04	
Trichlorotrifluoroethane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Carbon disulfide	ND	500	ug/Kg	1.00	12/16/2003 14:04	
Isopropylbenzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Bromobenzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Bromochloromethane	ND	250	ug/Kg	1.00	12/16/2003 14:04	
Trichlorofluoromethane	ND	1000	ug/Kg	1.00	12/16/2003 14:04	
1,2,3-Trichlorobenzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,2,4-Trimethylbenzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
1,3,5-Trimethylbenzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
2-Chlorotoluene	ND	250	ug/Kg	1.00	12/16/2003 14:04	

Sewern Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/22/2003 16:39

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 5035	Test(s): 8260B
Sample ID: T8-8.5	Lab ID: 2003-12-0190 - 13
Sampled: 12/02/2003 13:15	Extracted: 12/16/2003 14:04
Matrix: Soil	QC Batch#: 2003/12/16-02.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
4-Chlorotoluene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
n-Butylbenzene	510	250	ug/Kg	1.00	12/16/2003 14:04	
n-Propylbenzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
p-Isopropyltoluene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
sec-Butylbenzene	810	250	ug/Kg	1.00	12/16/2003 14:04	
tert-Butylbenzene	ND	250	ug/Kg	1.00	12/16/2003 14:04	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	99.3	74-121	%	1.00	12/16/2003 14:04	
1,2-Dichloroethane-d4	97.8	70-121	%	1.00	12/16/2003 14:04	
Toluene-d8	98.8	81-117	%	1.00	12/16/2003 14:04	

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 5035

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2003/12/16-02.60**

MB: 2003/12/16-02.60-015

Date Extracted: 12/16/2003 11:15

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	2500	ug/Kg	12/16/2003 11:15	
Acetone	ND	25000	ug/Kg	12/16/2003 11:15	
Benzene	ND	250	ug/Kg	12/16/2003 11:15	
Bromodichloromethane	ND	250	ug/Kg	12/16/2003 11:15	
Bromoform	ND	250	ug/Kg	12/16/2003 11:15	
Bromomethane	ND	500	ug/Kg	12/16/2003 11:15	
Carbon tetrachloride	ND	250	ug/Kg	12/16/2003 11:15	
Chlorobenzene	ND	250	ug/Kg	12/16/2003 11:15	
Chloroethane	ND	500	ug/Kg	12/16/2003 11:15	
2-Butanone(MEK)	ND	25000	ug/Kg	12/16/2003 11:15	
2-Chloroethylvinyl ether	ND	250	ug/Kg	12/16/2003 11:15	
Chloroform	ND	250	ug/Kg	12/16/2003 11:15	
Chloromethane	ND	500	ug/Kg	12/16/2003 11:15	
Dibromochloromethane	ND	250	ug/Kg	12/16/2003 11:15	
1,2-Dichlorobenzene	ND	250	ug/Kg	12/16/2003 11:15	
1,3-Dichlorobenzene	ND	250	ug/Kg	12/16/2003 11:15	
1,4-Dichlorobenzene	ND	250	ug/Kg	12/16/2003 11:15	
1,3-Dichloropropane	ND	250	ug/Kg	12/16/2003 11:15	
2,2-Dichloropropane	ND	250	ug/Kg	12/16/2003 11:15	
1,1-Dichloropropene	ND	250	ug/Kg	12/16/2003 11:15	
1,2-Dibromo-3-chloropropane	ND	2500	ug/Kg	12/16/2003 11:15	
1,2-Dibromoethane	ND	250	ug/Kg	12/16/2003 11:15	
Dibromomethane	ND	250	ug/Kg	12/16/2003 11:15	
Dichlorodifluoromethane	ND	250	ug/Kg	12/16/2003 11:15	
1,1-Dichloroethane	ND	250	ug/Kg	12/16/2003 11:15	
1,2-Dichloroethane	ND	250	ug/Kg	12/16/2003 11:15	
1,1-Dichloroethene	ND	250	ug/Kg	12/16/2003 11:15	
cis-1,2-Dichloroethene	ND	250	ug/Kg	12/16/2003 11:15	
trans-1,2-Dichloroethene	ND	250	ug/Kg	12/16/2003 11:15	
1,2-Dichloropropane	ND	250	ug/Kg	12/16/2003 11:15	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/22/2003 16:39

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 5035

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2003/12/16-02.60**

MB: 2003/12/16-02.60-015

Date Extracted: 12/16/2003 11:15

Compound	Conc.	RL	Unit	Analyzed	Flag
cis-1,3-Dichloropropene	ND	250	ug/Kg	12/16/2003 11:15	
trans-1,3-Dichloropropene	ND	250	ug/Kg	12/16/2003 11:15	
Ethylbenzene	ND	250	ug/Kg	12/16/2003 11:15	
Hexachlorobutadiene	ND	250	ug/Kg	12/16/2003 11:15	
2-Hexanone	ND	25000	ug/Kg	12/16/2003 11:15	
Methylene chloride	ND	2500	ug/Kg	12/16/2003 11:15	
4-Methyl-2-pentanone (MIBK)	ND	25000	ug/Kg	12/16/2003 11:15	
Naphthalene	ND	500	ug/Kg	12/16/2003 11:15	
Styrene	ND	250	ug/Kg	12/16/2003 11:15	
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	12/16/2003 11:15	
Tetrachloroethene	ND	250	ug/Kg	12/16/2003 11:15	
Toluene	ND	250	ug/Kg	12/16/2003 11:15	
1,1,1-Trichloroethane	ND	250	ug/Kg	12/16/2003 11:15	
1,1,2-Trichloroethane	ND	250	ug/Kg	12/16/2003 11:15	
Trichloroethene	ND	250	ug/Kg	12/16/2003 11:15	
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	12/16/2003 11:15	
Vinyl acetate	ND	2500	ug/Kg	12/16/2003 11:15	
Vinyl chloride	ND	250	ug/Kg	12/16/2003 11:15	
Total xylenes	ND	500	ug/Kg	12/16/2003 11:15	
Trichlorotrifluoroethane	ND	250	ug/Kg	12/16/2003 11:15	
Carbon disulfide	ND	500	ug/Kg	12/16/2003 11:15	
Isopropylbenzene	ND	250	ug/Kg	12/16/2003 11:15	
Bromobenzene	ND	250	ug/Kg	12/16/2003 11:15	
Bromochloromethane	ND	250	ug/Kg	12/16/2003 11:15	
Trichlorofluoromethane	ND	1000	ug/Kg	12/16/2003 11:15	
1,2,3-Trichlorobenzene	ND	250	ug/Kg	12/16/2003 11:15	
1,2,4-Trichlorobenzene	ND	250	ug/Kg	12/16/2003 11:15	
1,2,4-Trimethylbenzene	ND	250	ug/Kg	12/16/2003 11:15	
1,3,5-Trimethylbenzene	ND	250	ug/Kg	12/16/2003 11:15	
2-Chlorotoluene	ND	250	ug/Kg	12/16/2003 11:15	
4-Chlorotoluene	ND	250	ug/Kg	12/16/2003 11:15	

Severn Trent Laboratories, Inc.

12/22/2003 16:39

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566



**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report					
Prep(s): 5035					Test(s): 8260B
<b>Method Blank</b>		<b>Soil</b>			<b>QC Batch # 2003/12/16-02.60</b>
MB: 2003/12/16-02.60-015					Date Extracted: 12/16/2003 11:15

Compound	Conc.	RL	Unit	Analyzed	Flag
n-Butylbenzene	ND	250	ug/Kg	12/16/2003 11:15	
n-Propylbenzene	ND	250	ug/Kg	12/16/2003 11:15	
p-Isopropyltoluene	ND	250	ug/Kg	12/16/2003 11:15	
sec-Butylbenzene	ND	250	ug/Kg	12/16/2003 11:15	
tert-Butylbenzene	ND	250	ug/Kg	12/16/2003 11:15	
<b>Surrogates(s)</b>					
4-Bromofluorobenzene	105.2	74-121	%	12/16/2003 11:15	
1,2-Dichloroethane-d4	100.8	70-121	%	12/16/2003 11:15	
Toluene-d8	107.2	81-117	%	12/16/2003 11:15	

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Batch QC Report									
Prep(s): 5035						Test(s): 8260B			
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2003/12/16-02.60</b>			
LCS	2003/12/16-02.60-007		Extracted: 12/16/2003			Analyzed: 12/16/2003 10:07			
LCSD	2003/12/16-02.60-041		Extracted: 12/16/2003			Analyzed: 12/16/2003 10:41			

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	9980	9420	10000	99.8	94.2	5.8	69-129	20		
Chlorobenzene	10500	10500	10000	105.0	105.0	0.0	61-121	20		
1,1-Dichloroethene	8740	8620	10000	87.4	86.2	1.4	65-125	20		
Toluene	10200	9430	10000	102.0	94.3	7.8	70-130	20		
Trichloroethene	9940	9010	10000	99.4	90.1	9.8	74-134	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene	260	256	250	104.0	102.4		74-121			
1,2-Dichloroethane-d4	235	268	250	94.0	107.2		70-121			
Toluene-d8	257	262	250	102.8	104.8		81-117			

**Fuel Oxygenates by 8260B**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
T2-6.5	12/03/2003 16:45	Soil	3
T3-8.0	12/03/2003 14:15	Soil	5
T3-9.5	12/03/2003 14:20	Soil	6
T3-W	12/03/2003 15:00	Water	7
T4-10.5	12/03/2003 11:30	Soil	8
T7-9.0	12/02/2003 16:40	Soil	11
T7-W	12/02/2003 16:30	Water	12

**Fuel Oxygenates by 8260B**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>T2-6.5</b>	Lab ID: 2003-12-0190 - 3
Sampled: 12/03/2003 16:45	Extracted: 12/16/2003 10:52
Matrix: Soil	QC Batch#: 2003/12/16-1A.69
Analysis Flag: o ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3800	2300	ug/Kg	2.33	12/16/2003 10:52	g
Benzene	26	12	ug/Kg	2.33	12/16/2003 10:52	
Toluene	ND	12	ug/Kg	2.33	12/16/2003 10:52	
Ethyl benzene	24	12	ug/Kg	2.33	12/16/2003 10:52	
Total xylenes	ND	12	ug/Kg	2.33	12/16/2003 10:52	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	81.1	70-121	%	2.33	12/16/2003 10:52	
Toluene-d8	92.5	81-117	%	2.33	12/16/2003 10:52	

**Fuel Oxygenates by 8260B**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>T3-8.0</b>	Lab ID: 2003-12-0190 - 5
Sampled: 12/03/2003 14:15	Extracted: 12/16/2003 11:11
Matrix: Soil	QC Batch#: 2003/12/16-1A.69
Analysis Flag: o ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6400	4300	ug/Kg	4.35	12/16/2003 11:11	g
Benzene	ND	22	ug/Kg	4.35	12/16/2003 11:11	
Toluene	ND	22	ug/Kg	4.35	12/16/2003 11:11	
Ethyl benzene	ND	22	ug/Kg	4.35	12/16/2003 11:11	
Total xylenes	ND	22	ug/Kg	4.35	12/16/2003 11:11	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	82.5	70-121	%	4.35	12/16/2003 11:11	
Toluene-d8	97.4	81-117	%	4.35	12/16/2003 11:11	

**Fuel Oxygenates by 8260B**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>T3-9.5</b>	Lab ID:	2003-12-0190 - 6
Sampled:	12/03/2003 14:20	Extracted:	12/15/2003 23:28
Matrix:	Soil	QC Batch#:	2003/12/15-02.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	12/15/2003 23:28	
Benzene	ND	5.0	ug/Kg	1.00	12/15/2003 23:28	
Toluene	ND	5.0	ug/Kg	1.00	12/15/2003 23:28	
Ethyl benzene	ND	5.0	ug/Kg	1.00	12/15/2003 23:28	
Total xylenes	ND	5.0	ug/Kg	1.00	12/15/2003 23:28	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	82.9	70-121	%	1.00	12/15/2003 23:28	
Toluene-d8	90.7	81-117	%	1.00	12/15/2003 23:28	

**Fuel Oxygenates by 8260B**

San Joaquin Company, Inc.

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>T3-W</b>	Lab ID: 2003-12-0190 - 7
Sampled: 12/03/2003 15:00	Extracted: 12/16/2003 02:52
Matrix: Water	QC Batch#: 2003/12/15-02.64
Analysis Flag: o ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6300	1000	ug/L	20.00	12/16/2003 02:52	g
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.2	76-114	%	20.00	12/16/2003 02:52	
Toluene-d8	96.0	88-110	%	20.00	12/16/2003 02:52	

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>T4-10.5</b>	Lab ID: 2003-12-0190 - 8
Sampled: 12/03/2003 11:30	Extracted: 12/15/2003 23:47
Matrix: Soil	QC Batch#: 2003/12/15-02.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	12/15/2003 23:47	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	88.3	70-121	%	1.00	12/15/2003 23:47	
Toluene-d8	97.2	81-117	%	1.00	12/15/2003 23:47	



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Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>T7-9.0</b>	Lab ID:	2003-12-0190 - 11
Sampled:	12/02/2003 16:40	Extracted:	12/16/2003 00:05
Matrix:	Soil	QC Batch#:	2003/12/15-02.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	1.00	12/16/2003 00:05	
Benzene	ND	5.0	ug/Kg	1.00	12/16/2003 00:05	
Toluene	ND	5.0	ug/Kg	1.00	12/16/2003 00:05	
Ethyl benzene	ND	5.0	ug/Kg	1.00	12/16/2003 00:05	
Total xylenes	ND	5.0	ug/Kg	1.00	12/16/2003 00:05	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	94.4	70-121	%	1.00	12/16/2003 00:05	
Toluene-d8	94.7	81-117	%	1.00	12/16/2003 00:05	

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 5030B	Test(s): 8260B
Sample ID: T7-W	Lab ID: 2003-12-0190 - 12
Sampled: 12/02/2003 16:30	Extracted: 12/16/2003 19:49
Matrix: Water	QC Batch#: 2003/12/16-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	12/16/2003 19:49	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	88.3	76-114	%	1.00	12/16/2003 19:49	
Toluene-d8	95.6	88-110	%	1.00	12/16/2003 19:49	

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Water**

**QC Batch # 2003/12/15-02.64**

MB: 2003/12/15-02.64-039

Date Extracted: 12/15/2003 18:39

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/15/2003 18:39	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/15/2003 18:39	
Benzene	ND	0.5	ug/L	12/15/2003 18:39	
Toluene	ND	0.5	ug/L	12/15/2003 18:39	
Ethylbenzene	ND	0.5	ug/L	12/15/2003 18:39	
Total xylenes	ND	1.0	ug/L	12/15/2003 18:39	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	93.8	76-114	%	12/15/2003 18:39	
Toluene-d8	92.8	88-110	%	12/15/2003 18:39	

**Fuel Oxygenates by 8260B**

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report					
Prep(s): 5030B		Test(s): 8260B			
<b>Method Blank</b>		<b>Soil</b>		<b>QC Batch # 2003/12/15-02.69</b>	
MB: 2003/12/15-02.69-052			Date Extracted: 12/15/2003 18:51		

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	12/15/2003 18:51	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	12/15/2003 18:51	
Benzene	ND	5.0	ug/Kg	12/15/2003 18:51	
Toluene	ND	5.0	ug/Kg	12/15/2003 18:51	
Ethyl benzene	ND	5.0	ug/Kg	12/15/2003 18:51	
Total xylenes	ND	5.0	ug/Kg	12/15/2003 18:51	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	88.4	70-121	%	12/15/2003 18:51	
Toluene-d8	93.2	81-117	%	12/15/2003 18:51	

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Batch QC Report					
Prep(s): 5030B		Test(s): 8260B			
<b>Method Blank</b>		<b>Soil</b>		<b>QC Batch # 2003/12/16-1A.69</b>	
MB: 2003/12/16-1A.69-016		Date Extracted: 12/16/2003 10:16			

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	12/16/2003 10:16	
Benzene	ND	5.0	ug/Kg	12/16/2003 10:16	
Toluene	ND	5.0	ug/Kg	12/16/2003 10:16	
Ethyl benzene	ND	5.0	ug/Kg	12/16/2003 10:16	
Total xylenes	ND	5.0	ug/Kg	12/16/2003 10:16	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	12/16/2003 10:16	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	86.9	70-121	%	12/16/2003 10:16	
Toluene-d8	98.1	81-117	%	12/16/2003 10:16	

**Fuel Oxygenates by 8260B**

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report					
Prep(s): 5030B					Test(s): 8260B
<b>Method Blank</b>		<b>Water</b>			<b>QC Batch # 2003/12/16-2A.69</b>
MB: 2003/12/16-2A.69-020					Date Extracted: 12/16/2003 19:20

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	12/16/2003 19:20	
Benzene	ND	0.5	ug/L	12/16/2003 19:20	
Toluene	ND	0.5	ug/L	12/16/2003 19:20	
Ethylbenzene	ND	0.5	ug/L	12/16/2003 19:20	
Total xylenes	ND	1.0	ug/L	12/16/2003 19:20	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	12/16/2003 19:20	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	83.8	76-114	%	12/16/2003 19:20	
Toluene-d8	99.2	88-110	%	12/16/2003 19:20	

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Batch QC Report									
Prep(s): 5030B						Test(s): 8260B			
<b>Laboratory Control Spike</b>			<b>Water</b>			<b>QC Batch # 2003/12/15-02.64</b>			
LCS	2003/12/15-02.64-055		Extracted: 12/15/2003			Analyzed: 12/15/2003 17:55			
LCSD	2003/12/15-02.64-017		Extracted: 12/15/2003			Analyzed: 12/15/2003 18:17			

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.1	22.1	25.0	88.4	88.4	0.0	65-165	20		
Benzene	21.4	22.0	25.0	85.6	88.0	2.8	69-129	20		
Toluene	22.1	23.0	25.0	88.4	92.0	4.0	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	481	475	500	96.2	95.0		76-114			
Toluene-d8	465	469	500	93.0	93.8		88-110			

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
<b>Laboratory Control Spike</b>	<b>Soil</b>	<b>QC Batch # 2003/12/15-02.69</b>	
LCS 2003/12/15-02.69-014	Extracted: 12/15/2003	Analyzed: 12/15/2003 18:14	
LCSD 2003/12/15-02.69-032	Extracted: 12/15/2003	Analyzed: 12/15/2003 18:32	

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	39.5	43.7	50.0	79.0	87.4	10.1	65-165	20		
Benzene	41.6	43.5	50.0	83.2	87.0	4.5	69-129	20		
Toluene	51.6	48.5	50.0	103.2	97.0	6.2	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	436	449	500	87.2	89.8		70-121			
Toluene-d8	530	500	500	106.0	100.0		81-117			



**Fuel Oxygenates by 8260B**

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report			
Prep(s): 5030B		Test(s): 8260B	
<b>Laboratory Control Spike</b>	<b>Soil</b>	<b>QC Batch # 2003/12/16-1A.69</b>	
LCS 2003/12/16-1A.69-039	Extracted: 12/16/2003	Analyzed: 12/16/2003 09:39	
LCSD 2003/12/16-1A.69-057	Extracted: 12/16/2003	Analyzed: 12/16/2003 09:57	

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	43.4	39.8	50	86.8	79.6	8.7	69-129	20		
Toluene	54.8	49.6	50	109.6	99.2	10.0	70-130	20		
Methyl tert-butyl ether (MTBE)	41.3	43.5	50	82.6	87.0	5.2	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	431	449	500	86.2	89.8		70-121			
Toluene-d8	536	483	500	107.2	96.6		81-117			

**Fuel Oxygenates by 8260B**

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report										
Prep(s): 5030B							Test(s): 8260B			
<b>Laboratory Control Spike</b>			<b>Water</b>			<b>QC Batch # 2003/12/16-2A.69</b>				
LCS	2003/12/16-2A.69-039		Extracted: 12/16/2003			Analyzed: 12/16/2003 18:39				
LCSD	2003/12/16-2A.69-001		Extracted: 12/16/2003			Analyzed: 12/16/2003 19:01				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	19.8	21.9	25	79.2	87.6	10.1	69-129	20		
Toluene	24.0	26.0	25	96.0	104.0	8.0	70-130	20		
Methyl tert-butyl ether (MTBE)	21.2	19.1	25	84.8	76.4	10.4	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	451	456	500	90.2	91.2		76-114			
Toluene-d8	502	545	500	100.4	109.0		88-110			

## Fuel Oxygenates by 8260B

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Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

### Legend and Notes

#### Analysis Flag

o

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

#### Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

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

San Joaquin Company, Inc.

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Oakland, CA 94602-1459

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
T1-7.0	12/04/2003	Soil	1
T1-8.5	12/03/2003 10:02	Soil	2
T2-8.5	12/03/2003 16:50	Soil	4
T6-8.5	12/02/2003 14:30	Soil	10
T8-8.5	12/02/2003 13:15	Soil	13

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

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Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 5030B	Test(s): 8260B
Sample ID: T1-7.0	Lab ID: 2003-12-0190 - 1
Sampled: 12/04/2003	Extracted: 12/16/2003 12:00
Matrix: Soil	QC Batch#: 2003/12/16-03.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	530000	50000	ug/Kg	1.00	12/16/2003 20:27	g
Benzene	ND	500	ug/Kg	1.00	12/16/2003 20:27	
Toluene	ND	500	ug/Kg	1.00	12/16/2003 20:27	
Ethyl benzene	8300	500	ug/Kg	1.00	12/16/2003 20:27	
Total xylenes	4700	500	ug/Kg	1.00	12/16/2003 20:27	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	88.1	70-121	%	1.00	12/16/2003 20:27	
Toluene-d8	104.1	81-117	%	1.00	12/16/2003 20:27	

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

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Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>T1-8.5</b>	Lab ID:	2003-12-0190 - 2
Sampled:	12/03/2003 10:02	Extracted:	12/16/2003 12:00
Matrix:	Soil	QC Batch#:	2003/12/16-03.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1400000	50000	ug/Kg	1.00	12/16/2003 20:24	g
Benzene	ND	500	ug/Kg	1.00	12/16/2003 20:24	
Toluene	ND	500	ug/Kg	1.00	12/16/2003 20:24	
Ethyl benzene	10000	500	ug/Kg	1.00	12/16/2003 20:24	
Total xylenes	1900	500	ug/Kg	1.00	12/16/2003 20:24	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	88.3	70-121	%	1.00	12/16/2003 20:24	
Toluene-d8	94.8	81-117	%	1.00	12/16/2003 20:24	

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

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Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>T2-8.5</b>	Lab ID:	2003-12-0190 - 4
Sampled:	12/03/2003 16:50	Extracted:	12/17/2003 15:26
Matrix:	Soil	QC Batch#:	2003/12/16-03.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	300000	50000	ug/Kg	1.00	12/17/2003 15:26	
Benzene	1100	500	ug/Kg	1.00	12/17/2003 15:26	
Toluene	3100	500	ug/Kg	1.00	12/17/2003 15:26	
Ethyl benzene	6400	500	ug/Kg	1.00	12/17/2003 15:26	
Total xylenes	27000	500	ug/Kg	1.00	12/17/2003 15:26	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	80.7	70-121	%	1.00	12/17/2003 15:26	
Toluene-d8	93.8	81-117	%	1.00	12/17/2003 15:26	

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

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Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>T6-8.5</b>	Lab ID:	2003-12-0190 - 10
Sampled:	12/02/2003 14:30	Extracted:	12/16/2003 12:00
Matrix:	Soil	QC Batch#:	2003/12/16-03.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3000000	250000	ug/Kg	5.00	12/16/2003 20:08	g
Benzene	ND	2500	ug/Kg	5.00	12/16/2003 20:08	
Toluene	ND	2500	ug/Kg	5.00	12/16/2003 20:08	
Ethyl benzene	ND	2500	ug/Kg	5.00	12/16/2003 20:08	
Total xylenes	ND	2500	ug/Kg	5.00	12/16/2003 20:08	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	NA	70-121	%	5.00	12/16/2003 20:08	sd
Toluene-d8	NA	81-117	%	5.00	12/16/2003 20:08	sd



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

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 5030B	Test(s): 8260B
Sample ID: T8-8.5	Lab ID: 2003-12-0190 - 13
Sampled: 12/02/2003 13:15	Extracted: 12/16/2003 12:00
Matrix: Soil	QC Batch#: 2003/12/16-03.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	820000	50000	ug/Kg	1.00	12/16/2003 15:03	g
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	105.5	70-121	%	1.00	12/16/2003 15:03	
Toluene-d8	92.0	81-117	%	1.00	12/16/2003 15:03	

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

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2003/12/16-03.66**

MB: 2003/12/16-03.66-015

Date Extracted: 12/16/2003 14:15

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50000	ug/Kg	12/16/2003 14:15	
Benzene	ND	500	ug/Kg	12/16/2003 14:15	
Toluene	ND	500	ug/Kg	12/16/2003 14:15	
Ethyl benzene	ND	500	ug/Kg	12/16/2003 14:15	
Total xylenes	ND	500	ug/Kg	12/16/2003 14:15	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	107.6	70-121	%	12/16/2003 14:15	
Toluene-d8	100.8	81-117	%	12/16/2003 14:15	

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

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Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report										
Prep(s): 5030B							Test(s): 8260B			
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2003/12/16-03.66</b>				
LCS	2003/12/16-03.66-028		Extracted: 12/16/2003			Analyzed: 12/16/2003 13:28				
LCSD	2003/12/16-03.66-052		Extracted: 12/16/2003			Analyzed: 12/16/2003 13:52				
Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	9280	8910	10000	92.8	89.1	4.1	69-129	20		
Toluene	9610	8980	10000	96.1	89.8	6.8	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	271	264	250	108.4	105.6		70-121			
Toluene-d8	276	250	250	110.4	100.0		81-117			

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

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Legend and Notes**

**Result Flag**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

sd

Surrogate recovery not reportable due to required dilution.

**Diesel (C10-C24)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
T3-W	12/03/2003 15:00	Water	7

**Diesel (C10-C24)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 3511	Test(s): 8015M
Sample ID: <b>T3-W</b>	Lab ID: 2003-12-0190 - 7
Sampled: 12/03/2003 15:00	Extracted: 12/15/2003 12:32
Matrix: Water	QC Batch#: 2003/12/15-05.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	2300	50	ug/L	1.00	12/17/2003 10:34	ndp
<b>Surrogate(s)</b>						
o-Terphenyl	137.6	50-150	%	1.00	12/17/2003 10:34	

**Diesel (C10-C24)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report					
Prep(s): 3511					Test(s): 8015M
<b>Method Blank</b>		<b>Water</b>			<b>QC Batch # 2003/12/15-05.10</b>
MB: 2003/12/15-05.10-001					Date Extracted: 12/15/2003 12:32

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	12/15/2003 17:30	
<b>Surrogates(s)</b> o-Terphenyl	115.2	50-150	%	12/15/2003 17:30	

**Diesel (C10-C24)**

San Joaquin Company, Inc.

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Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report										
Prep(s): 3511						Test(s): 8015M				
<b>Laboratory Control Spike</b>			<b>Water</b>			<b>QC Batch # 2003/12/15-05.10</b>				
LCS	2003/12/15-05.10-002		Extracted: 12/15/2003			Analyzed: 12/16/2003 13:19				
LCSD	2003/12/15-05.10-003		Extracted: 12/15/2003			Analyzed: 12/16/2003 13:46				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	724	811	680	106.5	119.3	11.3	60-150	25		
<b>Surrogates(s)</b> o-Terphenyl	1.44	1.56	1.25	115.2	124.8		50-150	0		



**Diesel (C10-C24)**

San Joaquin Company, Inc.

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Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Legend and Notes**

**Result Flag**

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

**Diesel**

San Joaquin Company, Inc.

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1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
T1-7.0	12/04/2003	Soil	1
T1-8.5	12/03/2003 10:02	Soil	2
T2-6.5	12/03/2003 16:45	Soil	3
T2-8.5	12/03/2003 16:50	Soil	4
T3-8.0	12/03/2003 14:15	Soil	5
T3-9.5	12/03/2003 14:20	Soil	6
T4-10.5	12/03/2003 11:30	Soil	8
T6-8.5	12/02/2003 14:30	Soil	10
T7-9.0	12/02/2003 16:40	Soil	11
T7-W	12/02/2003 16:30	Water	12
T8-8.5	12/02/2003 13:15	Soil	13

**Diesel**

San Joaquin Company, Inc.

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Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: T1-7.0	Lab ID: 2003-12-0190 - 1
Sampled: 12/04/2003	Extracted: 12/16/2003 12:32
Matrix: Soil	QC Batch#: 2003/12/16-04.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	70	1.0	mg/Kg	1.00	12/17/2003 07:16	ndp
<b>Surrogate(s)</b> o-Terphenyl	83.2	60-130	%	1.00	12/17/2003 07:16	

**Diesel**

San Joaquin Company, Inc.

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Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>T1-8.5</b>	Lab ID: 2003-12-0190 - 2
Sampled: 12/03/2003 10:02	Extracted: 12/15/2003 15:52
Matrix: Soil	QC Batch#: 2003/12/15-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	90	1.0	mg/Kg	1.00	12/16/2003 07:34	ndp
<b>Surrogate(s)</b> o-Terphenyl	77.5	60-130	%	1.00	12/16/2003 07:34	

**Diesel**

San Joaquin Company, Inc.

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Oakland, CA 94602-1459

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>T2-6.5</b>	Lab ID: 2003-12-0190 - 3
Sampled: 12/03/2003 16:45	Extracted: 12/15/2003 15:52
Matrix: Soil	QC Batch#: 2003/12/15-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	12/16/2003 08:00	
<b>Surrogate(s)</b>						
o-Terphenyl	75.9	60-130	%	1.00	12/16/2003 08:00	

**Diesel**

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>T2-8.5</b>	Lab ID: 2003-12-0190 - 4
Sampled: 12/03/2003 16:50	Extracted: 12/15/2003 15:52
Matrix: Soil	QC Batch#: 2003/12/15-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	1.5	1.0	mg/Kg	1.00	12/16/2003 08:27	ndp
<b>Surrogate(s)</b>						
o-Terphenyl	71.6	60-130	%	1.00	12/16/2003 08:27	

**Diesel**

San Joaquin Company, Inc.

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Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>T3-8.0</b>	Lab ID: 2003-12-0190 - 5
Sampled: 12/03/2003 14:15	Extracted: 12/15/2003 15:52
Matrix: Soil	QC Batch#: 2003/12/15-06.10
Analysis Flag: rl ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	4.3	1.0	mg/Kg	1.00	12/16/2003 08:53	ndp
<b>Surrogate(s)</b>						
o-Terphenyl	77.7	60-130	%	1.00	12/16/2003 08:53	

**Diesel**

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>T3-9.5</b>	Lab ID: 2003-12-0190 - 6
Sampled: 12/03/2003 14:20	Extracted: 12/15/2003 15:52
Matrix: Soil	QC Batch#: 2003/12/15-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	12/16/2003 09:19	
<b>Surrogate(s)</b> o-Terphenyl	80.9	60-130	%	1.00	12/16/2003 09:19	



**Diesel**

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Oakland, CA 94602-1459

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>T4-10.5</b>	Lab ID: 2003-12-0190 - 8
Sampled: 12/03/2003 11:30	Extracted: 12/15/2003 15:52
Matrix: Soil	QC Batch#: 2003/12/15-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	12/16/2003 09:45	
<b>Surrogate(s)</b>						
o-Terphenyl	80.0	60-130	%	1.00	12/16/2003 09:45	

**Diesel**

San Joaquin Company, Inc.

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Oakland, CA 94602-1459

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s):	3550/8015M	Test(s):	8015M
Sample ID:	<b>T6-8.5</b>	Lab ID:	2003-12-0190 - 10
Sampled:	12/02/2003 14:30	Extracted:	12/15/2003 15:52
Matrix:	Soil	QC Batch#:	2003/12/15-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	70	1.0	mg/Kg	1.00	12/16/2003 10:11	ndp
<b>Surrogate(s)</b> o-Terphenyl	82.2	60-130	%	1.00	12/16/2003 10:11	

**Diesel**

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>T7-9.0</b>	Lab ID: 2003-12-0190 - 11
Sampled: 12/02/2003 16:40	Extracted: 12/15/2003 15:52
Matrix: Soil	QC Batch#: 2003/12/15-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	12/16/2003 10:38	
<b>Surrogate(s)</b>						
o-Terphenyl	79.7	60-130	%	1.00	12/16/2003 10:38	

**Diesel**

San Joaquin Company, Inc.

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Oakland, CA 94602-1459

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 3510/8015M	Test(s): 8015M
Sample ID: <b>T7-W</b>	Lab ID: 2003-12-0190 - 12
Sampled: 12/02/2003 16:30	Extracted: 12/15/2003 06:02
Matrix: Water	QC Batch#: 2003/12/15-02.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	12/16/2003 11:04	
<b>Surrogate(s)</b>						
o-Terphenyl	76.2	60-130	%	1.00	12/16/2003 11:04	

**Diesel**

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>T8-8.5</b>	Lab ID: 2003-12-0190 - 13
Sampled: 12/02/2003 13:15	Extracted: 12/15/2003 15:52
Matrix: Soil	QC Batch#: 2003/12/15-06.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	150	1.0	mg/Kg	1.00	12/16/2003 11:30	ndp
<b>Surrogate(s)</b> o-Terphenyl	81.3	60-130	%	1.00	12/16/2003 11:30	

**Diesel**

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 3510/8015M

Test(s): 8015M

**Method Blank**

**Water**

**QC Batch # 2003/12/15-02.10**

MB: 2003/12/15-02.10-001

Date Extracted: 12/15/2003 06:02

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	12/15/2003 13:22	
<b>Surrogates(s)</b> o-Terphenyl	84.5	60-130	%	12/15/2003 13:22	

**Diesel**

San Joaquin Company, Inc.

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Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report					
Prep(s): 3550/8015M				Test(s): 8015M	
<b>Method Blank</b>		<b>Soil</b>		<b>QC Batch # 2003/12/15-06.10</b>	
MB: 2003/12/15-06.10-001				Date Extracted: 12/15/2003 15:52	

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	12/16/2003 07:54	
<b>Surrogates(s)</b> o-Terphenyl	85.6	60-130	%	12/16/2003 07:54	

**Diesel**

San Joaquin Company, Inc.

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report					
Prep(s): 3550/8015M				Test(s): 8015M	
<b>Method Blank</b>	<b>Soil</b>			<b>QC Batch # 2003/12/16-04.10</b>	
MB: 2003/12/16-04.10-001				Date Extracted: 12/16/2003 12:32	

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	12/17/2003 09:02	
<b>Surrogates(s)</b> o-Terphenyl	82.2	60-130	%	12/17/2003 09:02	



**Diesel**

San Joaquin Company, Inc.

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report										
Prep(s): 3510/8015M							Test(s): 8015M			
<b>Laboratory Control Spike</b>			<b>Water</b>			<b>QC Batch # 2003/12/15-02.10</b>				
LCS	2003/12/15-02.10-002		Extracted: 12/15/2003			Analyzed: 12/15/2003 13:48				
LCSD	2003/12/15-02.10-003		Extracted: 12/15/2003			Analyzed: 12/15/2003 14:15				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	790	820	1000	79.0	82.0	3.7	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	15.5	16.6	20.0	77.7	82.9		60-130	0		

**Diesel**

San Joaquin Company, Inc.

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report										
Prep(s): 3550/8015M							Test(s): 8015M			
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2003/12/15-06.10</b>				
LCS	2003/12/15-06.10-002		Extracted: 12/15/2003			Analyzed: 12/16/2003 08:24				
LCSD	2003/12/15-06.10-003		Extracted: 12/15/2003			Analyzed: 12/16/2003 08:55				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	35.6	43.9	41.6	85.6	105.5	20.8	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	16.9	18.9	20.0	84.4	94.5		60-130	0		

**Diesel**

San Joaquin Company, Inc.

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report										
Prep(s): 3550/8015M						Test(s): 8015M				
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2003/12/16-04.10</b>				
LCS	2003/12/16-04.10-002		Extracted: 12/16/2003			Analyzed: 12/17/2003 09:33				
LCSD	2003/12/16-04.10-003		Extracted: 12/16/2003			Analyzed: 12/17/2003 10:03				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	34.0	33.6	41.7	81.5	81.2	0.4	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	17.1	17.1	20.0	85.4	85.3		60-130	0		

**Diesel**

San Joaquin Company, Inc.

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 3550/8015M	Test(s): 8015M	
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2003/12/15-06.10</b>
T1-8.5 >> MS		Lab ID: 2003-12-0190 - 002
MS: 2003/12/15-06.10-004	Extracted: 12/15/2003	Analyzed: 12/16/2003 09:09
		Dilution: 1.00
MSD: 2003/12/15-06.10-005	Extracted: 12/15/2003	Analyzed: 12/16/2003 09:34
		Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Diesel	98.7	80.9	89.9	41.4	21.3	-21.7	-215	60-130	25	mso	mso,rpd
<b>Surrogate(s)</b> o-Terphenyl	17.7	16.6		20.0	88.4	83.0		60-130	0		

**Diesel**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Legend and Notes**

**Analysis Flag**

rl

Reporting limits raised due to reduced sample size.

**Result Flag**

mso

MS/MSD spike recoveries were out of QC limits due to matrix interference.  
Precision and Accuracy were verified by LCS/LCSD.

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

rpd

Analyte RPD was out of QC limits due to sample heterogeneity.

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

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Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
T4-10.5	12/03/2003 11:30	Soil	8

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s): 5035	Test(s): 8260B
Sample ID: T4-10.5	Lab ID: 2003-12-0190 - 8
Sampled: 12/03/2003 11:30	Extracted: 12/15/2003 18:10
Matrix: Soil	QC Batch#: 2003/12/15-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Acetone	ND	50	ug/Kg	1.00	12/15/2003 18:10	
Benzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Bromobenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Bromochloromethane	ND	20	ug/Kg	1.00	12/15/2003 18:10	
Bromoform	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Bromomethane	ND	10	ug/Kg	1.00	12/15/2003 18:10	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	12/15/2003 18:10	
n-Butylbenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
sec-Butylbenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
tert-Butylbenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Carbon disulfide	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Chlorobenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Chloroethane	ND	10	ug/Kg	1.00	12/15/2003 18:10	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	12/15/2003 18:10	cv
Chloroform	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Chloromethane	ND	10	ug/Kg	1.00	12/15/2003 18:10	
2-Chlorotoluene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
4-Chlorotoluene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,3-Dichloropropane	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
2,2-Dichloropropane	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,1-Dichloropropene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	12/15/2003 18:10	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	12/15/2003 18:10	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/16/2003 10:22

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s): 5035	Test(s): 8260B
Sample ID: T4-10.5	Lab ID: 2003-12-0190 - 8
Sampled: 12/03/2003 11:30	Extracted: 12/15/2003 18:10
Matrix: Soil	QC Batch#: 2003/12/15-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	10	ug/Kg	1.00	12/15/2003 18:10	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	12/15/2003 18:10	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Ethylbenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Hexachlorobutadiene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
2-Hexanone	ND	50	ug/Kg	1.00	12/15/2003 18:10	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
p-Isopropyltoluene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Methylene chloride	ND	10	ug/Kg	1.00	12/15/2003 18:10	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	12/15/2003 18:10	
Naphthalene	ND	10	ug/Kg	1.00	12/15/2003 18:10	
n-Propylbenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Styrene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Toluene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Trichloroethene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	

Sewern Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

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12/16/2003 10:22



**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 5035	Test(s): 8260B
Sample ID: <b>T4-10.5</b>	Lab ID: 2003-12-0190 - 8
Sampled: 12/03/2003 11:30	Extracted: 12/15/2003 18:10
Matrix: Soil	QC Batch#: 2003/12/15-01.60

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Vinyl acetate	ND	50	ug/Kg	1.00	12/15/2003 18:10	
Vinyl chloride	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
Total xylenes	ND	5.0	ug/Kg	1.00	12/15/2003 18:10	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	94.1	74-121	%	1.00	12/15/2003 18:10	
1,2-Dichloroethane-d4	101.9	70-121	%	1.00	12/15/2003 18:10	
Toluene-d8	99.6	81-117	%	1.00	12/15/2003 18:10	

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 5035

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2003/12/15-01.60**

MB: 2003/12/15-01.60-005

Date Extracted: 12/15/2003 13:05

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/Kg	12/15/2003 13:05	
Acetone	ND	50	ug/Kg	12/15/2003 13:05	
Benzene	ND	5.0	ug/Kg	12/15/2003 13:05	
Bromodichloromethane	ND	5.0	ug/Kg	12/15/2003 13:05	
Bromobenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
Bromochloromethane	ND	20	ug/Kg	12/15/2003 13:05	
Bromoform	ND	5.0	ug/Kg	12/15/2003 13:05	
Bromomethane	ND	10	ug/Kg	12/15/2003 13:05	
2-Butanone(MEK)	ND	50	ug/Kg	12/15/2003 13:05	
n-Butylbenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
sec-Butylbenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
tert-Butylbenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
Carbon disulfide	ND	5.0	ug/Kg	12/15/2003 13:05	
Carbon tetrachloride	ND	5.0	ug/Kg	12/15/2003 13:05	
Chlorobenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
Chloroethane	ND	10	ug/Kg	12/15/2003 13:05	
2-Chloroethylvinyl ether	ND	50	ug/Kg	12/15/2003 13:05	
Chloroform	ND	5.0	ug/Kg	12/15/2003 13:05	
Chloromethane	ND	10	ug/Kg	12/15/2003 13:05	
2-Chlorotoluene	ND	5.0	ug/Kg	12/15/2003 13:05	
4-Chlorotoluene	ND	5.0	ug/Kg	12/15/2003 13:05	
Dibromochloromethane	ND	5.0	ug/Kg	12/15/2003 13:05	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
1,3-Dichloropropane	ND	5.0	ug/Kg	12/15/2003 13:05	
2,2-Dichloropropane	ND	5.0	ug/Kg	12/15/2003 13:05	
1,1-Dichloropropene	ND	5.0	ug/Kg	12/15/2003 13:05	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	12/15/2003 13:05	
1,2-Dibromoethane	ND	10	ug/Kg	12/15/2003 13:05	

Severn Trent Laboratories, Inc.

12/16/2003 10:22

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**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 5035

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2003/12/15-01.60**

MB: 2003/12/15-01.60-005

Date Extracted: 12/15/2003 13:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Dibromomethane	ND	10	ug/Kg	12/15/2003 13:05	
Dichlorodifluoromethane	ND	10	ug/Kg	12/15/2003 13:05	
1,1-Dichloroethane	ND	5.0	ug/Kg	12/15/2003 13:05	
1,2-Dichloroethane	ND	5.0	ug/Kg	12/15/2003 13:05	
1,1-Dichloroethene	ND	5.0	ug/Kg	12/15/2003 13:05	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	12/15/2003 13:05	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	12/15/2003 13:05	
1,2-Dichloropropane	ND	5.0	ug/Kg	12/15/2003 13:05	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	12/15/2003 13:05	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	12/15/2003 13:05	
Ethylbenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
Hexachlorobutadiene	ND	5.0	ug/Kg	12/15/2003 13:05	
2-Hexanone	ND	50	ug/Kg	12/15/2003 13:05	
Isopropylbenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
p-Isopropyltoluene	ND	5.0	ug/Kg	12/15/2003 13:05	
Methylene chloride	ND	10	ug/Kg	12/15/2003 13:05	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	12/15/2003 13:05	
Naphthalene	ND	10	ug/Kg	12/15/2003 13:05	
n-Propylbenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
Styrene	ND	5.0	ug/Kg	12/15/2003 13:05	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	12/15/2003 13:05	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	12/15/2003 13:05	
Tetrachloroethene	ND	5.0	ug/Kg	12/15/2003 13:05	
Toluene	ND	5.0	ug/Kg	12/15/2003 13:05	
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	12/15/2003 13:05	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	12/15/2003 13:05	
Trichloroethene	ND	5.0	ug/Kg	12/15/2003 13:05	
Trichlorofluoromethane	ND	5.0	ug/Kg	12/15/2003 13:05	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	12/15/2003 13:05	

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12/16/2003 10:22

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**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report					
Prep(s): 5035				Test(s): 8260B	
<b>Method Blank</b>		<b>Soil</b>		<b>QC Batch # 2003/12/15-01.60</b>	
MB: 2003/12/15-01.60-005				Date Extracted: 12/15/2003 13:05	

Compound	Conc.	RL	Unit	Analyzed	Flag
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	12/15/2003 13:05	
Vinyl acetate	ND	50	ug/Kg	12/15/2003 13:05	
Vinyl chloride	ND	5.0	ug/Kg	12/15/2003 13:05	
Total xylenes	ND	5.0	ug/Kg	12/15/2003 13:05	
<b>Surrogates(s)</b>					
4-Bromofluorobenzene	92.2	74-121	%	12/15/2003 13:05	
1,2-Dichloroethane-d4	114.4	70-121	%	12/15/2003 13:05	
Toluene-d8	101.8	81-117	%	12/15/2003 13:05	

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report			
Prep(s): 5035		Test(s): 8260B	
<b>Laboratory Control Spike</b>		<b>Soil</b>	
		<b>QC Batch # 2003/12/15-01.60</b>	
LCS	2003/12/15-01.60-057	Extracted: 12/15/2003	Analyzed: 12/15/2003 11:57
LCSD	2003/12/15-01.60-031	Extracted: 12/15/2003	Analyzed: 12/15/2003 12:31

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	90.8	93.5	100.0	90.8	93.5	2.9	69-129	20		
Chlorobenzene	104	107	100.0	104.0	107.0	2.8	61-121	20		
1,1-Dichloroethene	78.5	80.7	100.0	78.5	80.7	2.8	65-125	20		
Toluene	90.3	99.0	100.0	90.3	99.0	9.2	70-130	20		
Trichloroethene	84.5	89.2	100.0	84.5	89.2	5.4	74-134	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene	456	481	500	91.2	96.2		74-121			
1,2-Dichloroethane-d4	512	512	500	102.4	102.4		70-121			
Toluene-d8	468	489	500	93.6	97.8		81-117			

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

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Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Legend and Notes**

**Result Flag**

CV

CCV recovery for 2-Chloroethylvinylether was below acceptance criteria. Result reported for this analyte is estimated.

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road

Tracy, CA 95304-9142

Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
T5-9.0	12/02/2003 11:40	Soil	9

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road  
Tracy, CA 95304-9142  
Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s): 5035	Test(s): 8260B
Sample ID: T5-9.0	Lab ID: 2003-12-0190 - 9
Sampled: 12/02/2003 11:40	Extracted: 12/11/2003 13:54
Matrix: Soil	QC Batch#: 2003/12/11-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	2500	ug/Kg	1.00	12/11/2003 13:54	
Acetone	ND	25000	ug/Kg	1.00	12/11/2003 13:54	
Benzene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Bromodichloromethane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Bromoform	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Bromomethane	ND	500	ug/Kg	1.00	12/11/2003 13:54	
Carbon tetrachloride	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Chlorobenzene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Chloroethane	ND	500	ug/Kg	1.00	12/11/2003 13:54	
2-Butanone(MEK)	ND	25000	ug/Kg	1.00	12/11/2003 13:54	
2-Chloroethylvinyl ether	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Chloroform	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Chloromethane	ND	500	ug/Kg	1.00	12/11/2003 13:54	
Dibromochloromethane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,2-Dichlorobenzene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,3-Dichlorobenzene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,4-Dichlorobenzene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,3-Dichloropropane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
2,2-Dichloropropane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,1-Dichloropropene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,2-Dibromo-3-chloropropane	ND	2500	ug/Kg	1.00	12/11/2003 13:54	
1,2-Dibromoethane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Dibromomethane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Dichlorodifluoromethane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,1-Dichloroethane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,2-Dichloroethane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,1-Dichloroethene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
cis-1,2-Dichloroethene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
trans-1,2-Dichloroethene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,2-Dichloropropane	ND	250	ug/Kg	1.00	12/11/2003 13:54	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/15/2003 08:36



**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road  
Tracy, CA 95304-9142  
Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s): 5035	Test(s): 8260B
Sample ID: T5-9.0	Lab ID: 2003-12-0190 - 9
Sampled: 12/02/2003 11:40	Extracted: 12/11/2003 13:54
Matrix: Soil	QC Batch#: 2003/12/11-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
cis-1,3-Dichloropropene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
trans-1,3-Dichloropropene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Ethylbenzene	6100	250	ug/Kg	1.00	12/11/2003 13:54	
Hexachlorobutadiene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
2-Hexanone	ND	25000	ug/Kg	1.00	12/11/2003 13:54	
Methylene chloride	ND	2500	ug/Kg	1.00	12/11/2003 13:54	
4-Methyl-2-pentanone (MIBK)	ND	25000	ug/Kg	1.00	12/11/2003 13:54	
Naphthalene	4100	250	ug/Kg	1.00	12/11/2003 13:54	
Styrene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Tetrachloroethene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Toluene	2600	250	ug/Kg	1.00	12/11/2003 13:54	
1,1,1-Trichloroethane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,1,2-Trichloroethane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Trichloroethene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Vinyl acetate	ND	2500	ug/Kg	1.00	12/11/2003 13:54	
Vinyl chloride	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Total xylenes	36000	500	ug/Kg	1.00	12/11/2003 13:54	
Trichlorotrifluoroethane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Carbon disulfide	ND	500	ug/Kg	1.00	12/11/2003 13:54	
Isopropylbenzene	880	250	ug/Kg	1.00	12/11/2003 13:54	
Bromobenzene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Bromochloromethane	ND	250	ug/Kg	1.00	12/11/2003 13:54	
Trichlorofluoromethane	ND	1000	ug/Kg	1.00	12/11/2003 13:54	
1,2,3-Trichlorobenzene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
1,2,4-Trimethylbenzene	25000	250	ug/Kg	1.00	12/11/2003 13:54	
1,3,5-Trimethylbenzene	7600	250	ug/Kg	1.00	12/11/2003 13:54	
2-Chlorotoluene	ND	250	ug/Kg	1.00	12/11/2003 13:54	

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/15/2003 08:36

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road

Tracy, CA 95304-9142

Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 5035	Test(s): 8260B
Sample ID: T5-9.0	Lab ID: 2003-12-0190 - 9
Sampled: 12/02/2003 11:40	Extracted: 12/11/2003 13:54
Matrix: Soil	QC Batch#: 2003/12/11-01.06

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
4-Chlorotoluene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
n-Butylbenzene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
n-Propylbenzene	3900	250	ug/Kg	1.00	12/11/2003 13:54	
p-Isopropyltoluene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
sec-Butylbenzene	600	250	ug/Kg	1.00	12/11/2003 13:54	
tert-Butylbenzene	ND	250	ug/Kg	1.00	12/11/2003 13:54	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	108.2	74-121	%	1.00	12/11/2003 13:54	
1,2-Dichloroethane-d4	109.5	70-121	%	1.00	12/11/2003 13:54	
Toluene-d8	110.0	81-117	%	1.00	12/11/2003 13:54	

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road  
Tracy, CA 95304-9142  
Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 5035

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2003/12/11-01.06**

MB: 2003/12/11-01.06-004

Date Extracted: 12/11/2003 13:16

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	2500	ug/Kg	12/11/2003 13:16	
Acetone	ND	25000	ug/Kg	12/11/2003 13:16	
Benzene	ND	250	ug/Kg	12/11/2003 13:16	
Bromodichloromethane	ND	250	ug/Kg	12/11/2003 13:16	
Bromoform	ND	250	ug/Kg	12/11/2003 13:16	
Bromomethane	ND	500	ug/Kg	12/11/2003 13:16	
Carbon tetrachloride	ND	250	ug/Kg	12/11/2003 13:16	
Chlorobenzene	ND	250	ug/Kg	12/11/2003 13:16	
Chloroethane	ND	500	ug/Kg	12/11/2003 13:16	
2-Butanone(MEK)	ND	25000	ug/Kg	12/11/2003 13:16	
2-Chloroethylvinyl ether	ND	250	ug/Kg	12/11/2003 13:16	
Chloroform	ND	250	ug/Kg	12/11/2003 13:16	
Chloromethane	ND	500	ug/Kg	12/11/2003 13:16	
Dibromochloromethane	ND	250	ug/Kg	12/11/2003 13:16	
1,2-Dichlorobenzene	ND	250	ug/Kg	12/11/2003 13:16	
1,3-Dichlorobenzene	ND	250	ug/Kg	12/11/2003 13:16	
1,4-Dichlorobenzene	ND	250	ug/Kg	12/11/2003 13:16	
1,3-Dichloropropane	ND	250	ug/Kg	12/11/2003 13:16	
2,2-Dichloropropane	ND	250	ug/Kg	12/11/2003 13:16	
1,1-Dichloropropene	ND	250	ug/Kg	12/11/2003 13:16	
1,2-Dibromo-3-chloropropane	ND	2500	ug/Kg	12/11/2003 13:16	
1,2-Dibromoethane	ND	250	ug/Kg	12/11/2003 13:16	
Dibromomethane	ND	250	ug/Kg	12/11/2003 13:16	
Dichlorodifluoromethane	ND	250	ug/Kg	12/11/2003 13:16	
1,1-Dichloroethane	ND	250	ug/Kg	12/11/2003 13:16	
1,2-Dichloroethane	ND	250	ug/Kg	12/11/2003 13:16	
1,1-Dichloroethene	ND	250	ug/Kg	12/11/2003 13:16	
cis-1,2-Dichloroethene	ND	250	ug/Kg	12/11/2003 13:16	
trans-1,2-Dichloroethene	ND	250	ug/Kg	12/11/2003 13:16	
1,2-Dichloropropane	ND	250	ug/Kg	12/11/2003 13:16	

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12/15/2003 08:36

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road  
Tracy, CA 95304-9142  
Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 5035

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2003/12/11-01.06**

MB: 2003/12/11-01.06-004

Date Extracted: 12/11/2003 13:16

Compound	Conc.	RL	Unit	Analyzed	Flag
cis-1,3-Dichloropropene	ND	250	ug/Kg	12/11/2003 13:16	
trans-1,3-Dichloropropene	ND	250	ug/Kg	12/11/2003 13:16	
Ethylbenzene	ND	250	ug/Kg	12/11/2003 13:16	
Hexachlorobutadiene	ND	250	ug/Kg	12/11/2003 13:16	
2-Hexanone	ND	25000	ug/Kg	12/11/2003 13:16	
Methylene chloride	ND	2500	ug/Kg	12/11/2003 13:16	
4-Methyl-2-pentanone (MIBK)	ND	25000	ug/Kg	12/11/2003 13:16	
Naphthalene	ND	250	ug/Kg	12/11/2003 13:16	
Styrene	ND	250	ug/Kg	12/11/2003 13:16	
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	12/11/2003 13:16	
Tetrachloroethene	ND	250	ug/Kg	12/11/2003 13:16	
Toluene	ND	250	ug/Kg	12/11/2003 13:16	
1,1,1-Trichloroethane	ND	250	ug/Kg	12/11/2003 13:16	
1,1,2-Trichloroethane	ND	250	ug/Kg	12/11/2003 13:16	
Trichloroethene	ND	250	ug/Kg	12/11/2003 13:16	
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	12/11/2003 13:16	
Vinyl acetate	ND	2500	ug/Kg	12/11/2003 13:16	
Vinyl chloride	ND	250	ug/Kg	12/11/2003 13:16	
Total xylenes	ND	500	ug/Kg	12/11/2003 13:16	
Trichlorotrifluoroethane	ND	250	ug/Kg	12/11/2003 13:16	
Carbon disulfide	ND	500	ug/Kg	12/11/2003 13:16	
Isopropylbenzene	ND	250	ug/Kg	12/11/2003 13:16	
Bromobenzene	ND	250	ug/Kg	12/11/2003 13:16	
Bromochloromethane	ND	250	ug/Kg	12/11/2003 13:16	
Trichlorofluoromethane	ND	1000	ug/Kg	12/11/2003 13:16	
1,2,3-Trichlorobenzene	ND	250	ug/Kg	12/11/2003 13:16	
1,2,4-Trichlorobenzene	ND	250	ug/Kg	12/11/2003 13:16	
1,2,4-Trimethylbenzene	ND	250	ug/Kg	12/11/2003 13:16	
1,3,5-Trimethylbenzene	ND	250	ug/Kg	12/11/2003 13:16	
2-Chlorotoluene	ND	250	ug/Kg	12/11/2003 13:16	
4-Chlorotoluene	ND	250	ug/Kg	12/11/2003 13:16	

Severn Trent Laboratories, Inc.

12/15/2003 08:36

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road  
Tracy, CA 95304-9142  
Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report					
Prep(s): 5035		Test(s): 8260B			
<b>Method Blank</b>		<b>Soil</b>		<b>QC Batch # 2003/12/11-01.06</b>	
MB: 2003/12/11-01.06-004			Date Extracted: 12/11/2003 13:16		

Compound	Conc.	RL	Unit	Analyzed	Flag
n-Butylbenzene	ND	250	ug/Kg	12/11/2003 13:16	
n-Propylbenzene	ND	250	ug/Kg	12/11/2003 13:16	
p-Isopropyltoluene	ND	250	ug/Kg	12/11/2003 13:16	
sec-Butylbenzene	ND	250	ug/Kg	12/11/2003 13:16	
tert-Butylbenzene	ND	250	ug/Kg	12/11/2003 13:16	
<b>Surrogates(s)</b>					
4-Bromofluorobenzene	114.3	74-121	%	12/11/2003 13:16	
1,2-Dichloroethane-d4	115.0	70-121	%	12/11/2003 13:16	
Toluene-d8	105.1	81-117	%	12/11/2003 13:16	

**Volatile Organic Compounds by 8260B (High Level)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road

Tracy, CA 95304-9142

Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Batch QC Report**

Prep(s): 5035

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2003/12/11-01.06**

LCS 2003/12/11-01.06-002

Extracted: 12/11/2003

Analyzed: 12/11/2003 12:11

LCSD 2003/12/11-01.06-003

Extracted: 12/11/2003

Analyzed: 12/11/2003 12:44

Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	8240	9190	10000	82.4	91.9	10.9	69-129	20		
Chlorobenzene	9450	10600	10000	94.5	106.0	11.5	61-121	20		
1,1-Dichloroethene	8790	9970	10000	87.9	99.7	12.6	65-125	20		
Toluene	8130	9230	10000	81.3	92.3	12.7	70-130	20		
Trichloroethene	7760	8540	10000	77.6	85.4	9.6	74-134	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene	259	285	250	103.6	114.0		74-121			
1,2-Dichloroethane-d4	237	287	250	94.8	114.8		70-121			
Toluene-d8	226	254	250	90.4	101.6		81-117			

**Gas/BTEX Compounds (High Level)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road

Tracy, CA 95304-9142

Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
T5-9.0	12/02/2003 11:40	Soil	9

**Gas/BTEX Compounds (High Level)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road

Tracy, CA 95304-9142

Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 5030	Test(s): 8015M
Sample ID: <b>T5-9.0</b>	Lab ID: 2003-12-0190 - 9
Sampled: 12/02/2003 11:40	Extracted: 12/12/2003 12:55
Matrix: Soil	QC Batch#: 2003/12/12-05.01

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	400	50	mg/Kg	5.00	12/12/2003 12:55	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	12/12/2003 12:55	sd



**Gas/BTEX Compounds (High Level)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road

Tracy, CA 95304-9142

Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Batch QC Report**

Prep(s): 5030

Test(s): 8015M

**Method Blank**

**Soil**

**QC Batch # 2003/12/12-05.01**

MB: 2003/12/12-05.01-001

Date Extracted: 12/12/2003 10:49

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	10	mg/Kg	12/12/2003 10:49	
<b>Surrogates(s)</b>					
4-Bromofluorobenzene-FID	114.8	58-124	%	12/12/2003 10:49	

**Gas/BTEX Compounds (High Level)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road  
Tracy, CA 95304-9142  
Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report										
Prep(s): 5030							Test(s): 8015M			
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2003/12/12-05.01</b>				
LCS	2003/12/12-05.01-002		Extracted: 12/12/2003			Analyzed: 12/12/2003 12:28				
LCSD	2003/12/12-05.01-003		Extracted: 12/12/2003			Analyzed: 12/12/2003 11:42				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Gasoline	0.631	0.679	0.625	101.0	108.6	7.3	75-125	35		
<b>Surrogates(s)</b> 4-Bromofluorobenzene-FID	526	523	500	105.2	104.6		58-124	0		

## Gas/BTEX Compounds (High Level)

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road

Tracy, CA 95304-9142

Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

### Legend and Notes

#### Result Flag

sd

Surrogate recovery not reportable due to required dilution.

**Total Extractable Petroleum Hydrocarbons (TEPH)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road

Tracy, CA 95304-9142

Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
T5-9.0	12/02/2003 11:40	Soil	9

**Total Extractable Petroleum Hydrocarbons (TEPH)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road

Tracy, CA 95304-9142

Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 3550/8015M	Test(s): 8015M
Sample ID: <b>T5-9.0</b>	Lab ID: 2003-12-0190 - 9
Sampled: 12/02/2003 11:40	Extracted: 12/8/2003 10:15
Matrix: Soil	QC Batch#: 2003/12/08-01.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	70	1.0	mg/Kg	1.00	12/11/2003 11:44	ndp
Stoddard solvent	ND	1.0	mg/Kg	1.00	12/11/2003 11:44	
Mineral spirits	ND	10	mg/Kg	1.00	12/11/2003 11:44	
<b>Surrogate(s)</b>						
o-Terphenyl	82.7	60-130	%	1.00	12/11/2003 11:44	

**Total Extractable Petroleum Hydrocarbons (TEPH)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road  
Tracy, CA 95304-9142  
Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 3550/8015M

Test(s): 8015M

**Method Blank**

**Soil**

**QC Batch # 2003/12/08-01.10**

MB: 2003/12/08-01.10-001

Date Extracted: 12/08/2003 10:15

Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	1	mg/Kg	12/08/2003 16:26	
Stoddard solvent	ND	1	mg/Kg	12/08/2003 16:26	
Mineral spirits	ND	10	mg/Kg	12/08/2003 16:26	
<b>Surrogates(s)</b>					
o-Terphenyl	80.0	60-130	%	12/08/2003 16:26	

**Total Extractable Petroleum Hydrocarbons (TEPH)**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road

Tracy, CA 95304-9142

Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Batch QC Report										
Prep(s): 3550/8015M							Test(s): 8015M			
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2003/12/08-01.10</b>				
LCS	2003/12/08-01.10-002		Extracted: 12/08/2003			Analyzed: 12/08/2003 16:00				
LCSD	2003/12/08-01.10-003		Extracted: 12/08/2003			Analyzed: 12/08/2003 15:35				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	35.4	35.3	41.5	85.3	84.9	0.5	60-130	25		
<b>Surrogates(s)</b> o-Terphenyl	18.4	17.7	20.0	91.9	88.5		60-130	0		

## Total Extractable Petroleum Hydrocarbons (TEPH)

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road

Tracy, CA 95304-9142

Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

### Legend and Notes

#### Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard



**Semi-volatile analysis by GC/MS - EPA8270C**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

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Tracy, CA 95304-9142

Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
T5-9.0	12/02/2003 11:40	Soil	9

**Semi-volatile analysis by GC/MS - EPA8270C**

San Joaquin Company, Inc.

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Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s):	3550B/8270C	Test(s):	8270C
Sample ID:	<b>T5-9.0</b>	Lab ID:	2003-12-0190 - 9
Sampled:	12/02/2003 11:40	Extracted:	12/8/2003 14:43
Matrix:	Soil	QC Batch#:	2003/12/08-04.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
2-Chlorophenol	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Benzyl alcohol	ND	0.17	mg/Kg	1.00	12/09/2003 17:52	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
2-Methylphenol	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
4-Methylphenol	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Hexachloroethane	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Nitrobenzene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Isophorone	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
2-Nitrophenol	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
2,4-Dimethylphenol	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	1.00	12/09/2003 17:52	
2,4-Dichlorophenol	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Naphthalene	1.8	0.067	mg/Kg	1.00	12/09/2003 17:52	
4-Chloroaniline	ND	0.33	mg/Kg	1.00	12/09/2003 17:52	
Hexachlorobutadiene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	1.00	12/09/2003 17:52	
2-Methylnaphthalene	1.8	0.067	mg/Kg	1.00	12/09/2003 17:52	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	1.00	12/09/2003 17:52	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
2-Chloronaphthalene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
2-Nitroaniline	ND	0.33	mg/Kg	1.00	12/09/2003 17:52	
Dimethyl phthalate	ND	0.17	mg/Kg	1.00	12/09/2003 17:52	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/12/2003 15:45

**Semi-volatile analysis by GC/MS - EPA8270C**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road  
Tracy, CA 95304-9142  
Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s):	3550B/8270C	Test(s):	8270C
Sample ID:	<b>T5-9.0</b>	Lab ID:	2003-12-0190 - 9
Sampled:	12/02/2003 11:40	Extracted:	12/8/2003 14:43
Matrix:	Soil	QC Batch#:	2003/12/08-04.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Acenaphthylene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
3-Nitroaniline	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Acenaphthene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
2,4-Dinitrophenol	ND	0.33	mg/Kg	1.00	12/09/2003 17:52	
4-Nitrophenol	ND	0.33	mg/Kg	1.00	12/09/2003 17:52	
Dibenzofuran	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
2,4-Dinitrotoluene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
2,6-Dinitrotoluene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Diethyl phthalate	ND	0.17	mg/Kg	1.00	12/09/2003 17:52	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	1.00	12/09/2003 17:52	
Fluorene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
4-Nitroaniline	ND	0.33	mg/Kg	1.00	12/09/2003 17:52	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	1.00	12/09/2003 17:52	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	1.00	12/09/2003 17:52	
Hexachlorobenzene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Pentachlorophenol	ND	0.33	mg/Kg	1.00	12/09/2003 17:52	
Phenanthrene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Anthracene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Di-n-butyl phthalate	ND	0.17	mg/Kg	1.00	12/09/2003 17:52	
Fluoranthene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Pyrene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Butyl benzyl phthalate	ND	0.17	mg/Kg	1.00	12/09/2003 17:52	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	1.00	12/09/2003 17:52	
Benzo(a)anthracene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	1.00	12/09/2003 17:52	
Chrysene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Di-n-octyl phthalate	ND	0.17	mg/Kg	1.00	12/09/2003 17:52	
Benzo(b)fluoranthene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	

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Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/12/2003 15:45

**Semi-volatile analysis by GC/MS - EPA8270C**

San Joaquin Company, Inc.

Attn.: Bernie Dietz

33233 S. Koster Road  
Tracy, CA 95304-9142  
Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s):	3550B/8270C	Test(s):	8270C
Sample ID:	<b>T5-9.0</b>	Lab ID:	2003-12-0190 - 9
Sampled:	12/02/2003 11:40	Extracted:	12/8/2003 14:43
Matrix:	Soil	QC Batch#:	2003/12/08-04.11

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Benzo(a)pyrene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	1.00	12/09/2003 17:52	
Benzoic acid	ND	0.33	mg/Kg	1.00	12/09/2003 17:52	
<b>Surrogate(s)</b>						
Nitrobenzene-d5	58.5	23-120	%	1.00	12/09/2003 17:52	
2-Fluorobiphenyl	63.8	30-115	%	1.00	12/09/2003 17:52	
p-Terphenyl-d14	64.8	18-137	%	1.00	12/09/2003 17:52	
2-Fluorophenol	54.7	25-121	%	1.00	12/09/2003 17:52	
Phenol-d6	61.8	24-113	%	1.00	12/09/2003 17:52	
2,4,6-Tribromophenol	72.0	19-122	%	1.00	12/09/2003 17:52	

**Semi-volatile analysis by GC/MS - EPA8270C**

San Joaquin Company, Inc.

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33233 S. Koster Road  
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Phone: (209) 832-2910 Fax: (209) 833-1288

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 3550B/8270C

Test(s): 8270C

**Method Blank**

**Soil**

**QC Batch # 2003/12/08-04.11**

MB: 2003/12/08-04.11-001

Date Extracted: 12/08/2003 14:43

Compound	Conc.	RL	Unit	Analyzed	Flag
Phenol	ND	0.067	mg/Kg	12/09/2003 16:25	
Bis(2-chloroethyl)ether	ND	0.067	mg/Kg	12/09/2003 16:25	
2-Chlorophenol	ND	0.067	mg/Kg	12/09/2003 16:25	
1,3-Dichlorobenzene	ND	0.067	mg/Kg	12/09/2003 16:25	
1,4-Dichlorobenzene	ND	0.067	mg/Kg	12/09/2003 16:25	
Benzyl alcohol	ND	0.17	mg/Kg	12/09/2003 16:25	
1,2-Dichlorobenzene	ND	0.067	mg/Kg	12/09/2003 16:25	
2-Methylphenol	ND	0.067	mg/Kg	12/09/2003 16:25	
Bis(2-chloroisopropyl) ether	ND	0.067	mg/Kg	12/09/2003 16:25	
4-Methylphenol	ND	0.067	mg/Kg	12/09/2003 16:25	
N-Nitroso-di-n-propylamine	ND	0.067	mg/Kg	12/09/2003 16:25	
Hexachloroethane	ND	0.067	mg/Kg	12/09/2003 16:25	
Nitrobenzene	ND	0.067	mg/Kg	12/09/2003 16:25	
Isophorone	ND	0.067	mg/Kg	12/09/2003 16:25	
2-Nitrophenol	ND	0.067	mg/Kg	12/09/2003 16:25	
2,4-Dimethylphenol	ND	0.067	mg/Kg	12/09/2003 16:25	
Bis(2-chloroethoxy) methane	ND	0.17	mg/Kg	12/09/2003 16:25	
2,4-Dichlorophenol	ND	0.067	mg/Kg	12/09/2003 16:25	
1,2,4-Trichlorobenzene	ND	0.067	mg/Kg	12/09/2003 16:25	
Naphthalene	ND	0.067	mg/Kg	12/09/2003 16:25	
4-Chloroaniline	ND	0.330	mg/Kg	12/09/2003 16:25	
Hexachlorobutadiene	ND	0.067	mg/Kg	12/09/2003 16:25	
4-Chloro-3-methylphenol	ND	0.17	mg/Kg	12/09/2003 16:25	
2-Methylnaphthalene	ND	0.067	mg/Kg	12/09/2003 16:25	
Hexachlorocyclopentadiene	ND	0.17	mg/Kg	12/09/2003 16:25	
2,4,6-Trichlorophenol	ND	0.067	mg/Kg	12/09/2003 16:25	
2,4,5-Trichlorophenol	ND	0.067	mg/Kg	12/09/2003 16:25	
2-Chloronaphthalene	ND	0.067	mg/Kg	12/09/2003 16:25	
2-Nitroaniline	ND	0.33	mg/Kg	12/09/2003 16:25	
Dimethyl phthalate	ND	0.17	mg/Kg	12/09/2003 16:25	

**Semi-volatile analysis by GC/MS - EPA8270C**

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 3550B/8270C

Test(s): 8270C

**Method Blank**

**Soil**

**QC Batch # 2003/12/08-04.11**

MB: 2003/12/08-04.11-001

Date Extracted: 12/08/2003 14:43

Compound	Conc.	RL	Unit	Analyzed	Flag
Acenaphthylene	ND	0.067	mg/Kg	12/09/2003 16:25	
3-Nitroaniline	ND	0.067	mg/Kg	12/09/2003 16:25	
Acenaphthene	ND	0.067	mg/Kg	12/09/2003 16:25	
2,4-Dinitrophenol	ND	0.33	mg/Kg	12/09/2003 16:25	
4-Nitrophenol	ND	0.33	mg/Kg	12/09/2003 16:25	
Dibenzofuran	ND	0.067	mg/Kg	12/09/2003 16:25	
2,4-Dinitrotoluene	ND	0.067	mg/Kg	12/09/2003 16:25	
2,6-Dinitrotoluene	ND	0.067	mg/Kg	12/09/2003 16:25	
Diethyl phthalate	ND	0.17	mg/Kg	12/09/2003 16:25	
4-Chlorophenyl phenyl ether	ND	0.17	mg/Kg	12/09/2003 16:25	
Fluorene	ND	0.067	mg/Kg	12/09/2003 16:25	
4-Nitroaniline	ND	0.33	mg/Kg	12/09/2003 16:25	
2-Methyl-4,6-dinitrophenol	ND	0.33	mg/Kg	12/09/2003 16:25	
N-Nitrosodiphenylamine	ND	0.067	mg/Kg	12/09/2003 16:25	
4-Bromophenyl phenyl ether	ND	0.17	mg/Kg	12/09/2003 16:25	
Hexachlorobenzene	ND	0.067	mg/Kg	12/09/2003 16:25	
Pentachlorophenol	ND	0.33	mg/Kg	12/09/2003 16:25	
Phenanthrene	ND	0.067	mg/Kg	12/09/2003 16:25	
Anthracene	ND	0.067	mg/Kg	12/09/2003 16:25	
Di-n-butyl phthalate	ND	0.17	mg/Kg	12/09/2003 16:25	
Fluoranthene	ND	0.067	mg/Kg	12/09/2003 16:25	
Pyrene	ND	0.067	mg/Kg	12/09/2003 16:25	
Butyl benzyl phthalate	ND	0.17	mg/Kg	12/09/2003 16:25	
3,3-Dichlorobenzidine	ND	0.17	mg/Kg	12/09/2003 16:25	
Benzo(a)anthracene	ND	0.067	mg/Kg	12/09/2003 16:25	
bis(2-Ethylhexyl) phthalate	ND	0.33	mg/Kg	12/09/2003 16:25	
Chrysene	ND	0.067	mg/Kg	12/09/2003 16:25	
Di-n-octyl phthalate	ND	0.17	mg/Kg	12/09/2003 16:25	
Benzo(b)fluoranthene	ND	0.067	mg/Kg	12/09/2003 16:25	
Benzo(k)fluoranthene	ND	0.067	mg/Kg	12/09/2003 16:25	
Benzo(a)pyrene	ND	0.067	mg/Kg	12/09/2003 16:25	

Severn Trent Laboratories, Inc.

12/12/2003 15:45

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**Semi-volatile analysis by GC/MS - EPA8270C**

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report					
Prep(s): 3550B/8270C		Test(s): 8270C			
<b>Method Blank</b>		<b>Soil</b>		<b>QC Batch # 2003/12/08-04.11</b>	
MB: 2003/12/08-04.11-001		Date Extracted: 12/08/2003 14:43			

Compound	Conc.	RL	Unit	Analyzed	Flag
Indeno(1,2,3-c,d)pyrene	ND	0.067	mg/Kg	12/09/2003 16:25	
Dibenzo(a,h)anthracene	ND	0.067	mg/Kg	12/09/2003 16:25	
Benzo(g,h,i)perylene	ND	0.067	mg/Kg	12/09/2003 16:25	
Benzoic acid	ND	0.33	mg/Kg	12/09/2003 16:25	
<b>Surrogates(s)</b>					
Nitrobenzene-d5	70.0	23-120	%	12/09/2003 16:25	
2-Fluorobiphenyl	87.0	30-115	%	12/09/2003 16:25	
p-Terphenyl-d14	80.4	18-137	%	12/09/2003 16:25	
2-Fluorophenol	74.3	25-121	%	12/09/2003 16:25	
Phenol-d6	82.2	24-113	%	12/09/2003 16:25	
2,4,6-Tribromophenol	89.4	19-122	%	12/09/2003 16:25	

**Semi-volatile analysis by GC/MS - EPA8270C**

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report										
Prep(s): 3550B/8270C							Test(s): 8270C			
<b>Laboratory Control Spike</b>			<b>Soil</b>			<b>QC Batch # 2003/12/08-04.11</b>				
LCS	2003/12/08-04.11-002		Extracted: 12/08/2003			Analyzed: 12/09/2003 16:54				
LCSD	2003/12/08-04.11-003		Extracted: 12/08/2003			Analyzed: 12/09/2003 17:23				
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Phenol	1.45	1.47	1.99	72.9	73.9	1.4	20-90	35		
2-Chlorophenol	1.44	1.47	1.99	72.4	73.9	2.1	27-123	35		
1,4-Dichlorobenzene	0.690	0.710	0.995	69.3	71.4	3.0	28-104	30		
N-Nitroso-di-n-propylamine	0.730	0.760	0.995	73.4	76.4	4.0	25-114	39		
1,2,4-Trichlorobenzene	0.840	0.750	0.995	84.4	75.4	11.3	38-107	35		
4-Chloro-3-methylphenol	1.67	1.56	1.99	83.9	78.4	6.8	26-103	33		
Acenaphthene	0.900	0.820	0.995	90.5	82.4	9.4	49-102	30		
4-Nitrophenol	1.90	1.86	1.99	95.5	93.5	2.1	17-109	35		
2,4-Dinitrotoluene	0.900	0.890	0.995	90.5	89.4	1.2	39-139	38		
Pentachlorophenol	1.44	1.48	1.99	72.4	74.4	2.7	11-114	35		
Pyrene	0.830	0.810	0.995	83.4	81.4	2.4	25-117	35		
<b>Surrogates(s)</b>										
Nitrobenzene-d5	15.8	14.3	25	63.2	57.2		23-120			
2-Fluorobiphenyl	20.2	20.1	25	80.8	80.4		30-115			
p-Terphenyl-d14	19.6	19.7	25	78.4	78.8		18-137			
2-Fluorophenol	28.8	28.6	50	57.6	57.2		25-121			
Phenol-d6	36.7	37.3	50	73.4	74.6		24-113			
2,4,6-Tribromophenol	41.9	41.9	50	83.8	83.8		19-122			



**Semi-volatile analysis by GC/MS - EPA8270C**

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 3550B/8270C	Test(s): 8270C	
<b>Matrix Spike ( MS / MSD )</b>	<b>Soil</b>	<b>QC Batch # 2003/12/08-04.11</b>
T5-9.0 >> MS		Lab ID: 2003-12-0190 - 009
MS: 2003/12/08-04.11-005	Extracted: 12/08/2003	Analyzed: 12/09/2003 18:21
		Dilution: 1.00
MSD: 2003/12/08-04.11-006	Extracted: 12/08/2003	Analyzed: 12/09/2003 18:50
		Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Phenol	1.42	1.45	ND	2.00	71.0	72.9	2.6	20-90	35		
2-Chlorophenol	1.34	1.40	ND	2.00	67.0	70.4	4.9	27-123	35		
1,4-Dichlorobenzene	0.580	0.680	ND	0.998	58.1	68.3	16.1	28-104	30		
N-Nitroso-di-n-propylamine	0.670	0.720	ND	0.998	67.1	72.3	7.5	25-114	39		
1,2,4-Trichlorobenzene	0.690	0.710	ND	0.998	69.1	71.3	3.1	38-107	35		
4-Chloro-3-methylphenol	1.41	1.42	ND	2.00	70.5	71.4	1.3	26-103	33		
Acenaphthene	0.730	0.770	ND	0.998	73.1	77.3	5.6	49-102	30		
4-Nitrophenol	1.75	1.94	ND	2.00	87.5	97.5	10.8	17-109	35		
2,4-Dinitrotoluene	0.830	0.910	ND	0.998	83.2	91.4	9.4	39-139	38		
Pentachlorophenol	1.38	1.49	ND	2.00	69.0	74.9	8.2	11-114	35		
Pyrene	0.770	0.820	ND	0.998	77.2	82.3	6.4	25-117	35		
<b>Surrogate(s)</b>											
Nitrobenzene-d5	15.3	15.1		25	61.4	60.2		23-120			
2-Fluorobiphenyl	18.5	17.8		25	73.8	71.0		30-115			
p-Terphenyl-d14	18.1	19.4		25	72.4	77.5		18-137			
2-Fluorophenol	25.6	28.0		50	51.2	56.1		25-121			
Phenol-d6	32.6	35.1		50	65.3	70.2		24-113			
2,4,6-Tribromophenol	36.7	43.7		50	73.4	87.4		19-122			

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
T3-W	12/03/2003 15:00	Water	7
T7-W	12/02/2003 16:30	Water	12

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s): 5030B	Test(s): 8260B
Sample ID: T3-W	Lab ID: 2003-12-0190 - 7
Sampled: 12/03/2003 15:00	Extracted: 12/16/2003 09:07
Matrix: Water	QC Batch#: 2003/12/16-01.09
Analysis Flag: o ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	50	ug/L	10.00	12/16/2003 09:07	
Acetone	ND	500	ug/L	10.00	12/16/2003 09:07	
Benzene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
Bromodichloromethane	ND	5.0	ug/L	10.00	12/16/2003 09:07	
Bromobenzene	ND	10	ug/L	10.00	12/16/2003 09:07	
Bromochloromethane	ND	10	ug/L	10.00	12/16/2003 09:07	
Bromoform	ND	5.0	ug/L	10.00	12/16/2003 09:07	
Bromomethane	ND	10	ug/L	10.00	12/16/2003 09:07	
2-Butanone(MEK)	ND	500	ug/L	10.00	12/16/2003 09:07	
n-Butylbenzene	100	10	ug/L	10.00	12/16/2003 09:07	
sec-Butylbenzene	47	10	ug/L	10.00	12/16/2003 09:07	
tert-Butylbenzene	ND	10	ug/L	10.00	12/16/2003 09:07	
Carbon disulfide	ND	50	ug/L	10.00	12/16/2003 09:07	
Carbon tetrachloride	ND	5.0	ug/L	10.00	12/16/2003 09:07	
Chlorobenzene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
Chloroethane	ND	10	ug/L	10.00	12/16/2003 09:07	
2-Chloroethylvinyl ether	ND	50	ug/L	10.00	12/16/2003 09:07	
Chloroform	ND	10	ug/L	10.00	12/16/2003 09:07	
Chloromethane	ND	10	ug/L	10.00	12/16/2003 09:07	
2-Chlorotoluene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
4-Chlorotoluene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
Dibromochloromethane	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,2-Dichlorobenzene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,3-Dichlorobenzene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,4-Dichlorobenzene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,3-Dichloropropane	ND	10	ug/L	10.00	12/16/2003 09:07	
2,2-Dichloropropane	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,1-Dichloropropene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,2-Dibromo-3-chloropropane	ND	10	ug/L	10.00	12/16/2003 09:07	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 \* www.stl-inc.com \* CA DHS ELAP# 2496

12/22/2003 16:40

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s): 5030B	Test(s): 8260B
Sample ID: T3-W	Lab ID: 2003-12-0190 - 7
Sampled: 12/03/2003 15:00	Extracted: 12/16/2003 09:07
Matrix: Water	QC Batch#: 2003/12/16-01.09
Analysis Flag: o ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
1,2-Dibromoethane	ND	5.0	ug/L	10.00	12/16/2003 09:07	
Dibromomethane	ND	5.0	ug/L	10.00	12/16/2003 09:07	
Dichlorodifluoromethane	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,1-Dichloroethane	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,2-Dichloroethane	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,1-Dichloroethene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
cis-1,2-Dichloroethene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
trans-1,2-Dichloroethene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,2-Dichloropropane	ND	5.0	ug/L	10.00	12/16/2003 09:07	
cis-1,3-Dichloropropene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
trans-1,3-Dichloropropene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
Ethylbenzene	31	5.0	ug/L	10.00	12/16/2003 09:07	
Hexachlorobutadiene	ND	10	ug/L	10.00	12/16/2003 09:07	
2-Hexanone	ND	500	ug/L	10.00	12/16/2003 09:07	
Isopropylbenzene	87	5.0	ug/L	10.00	12/16/2003 09:07	
p-Isopropyltoluene	23	10	ug/L	10.00	12/16/2003 09:07	
Methylene chloride	ND	50	ug/L	10.00	12/16/2003 09:07	
4-Methyl-2-pentanone (MIBK)	ND	500	ug/L	10.00	12/16/2003 09:07	
Naphthalene	12	10	ug/L	10.00	12/16/2003 09:07	
n-Propylbenzene	230	10	ug/L	10.00	12/16/2003 09:07	
Styrene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	10.00	12/16/2003 09:07	
Tetrachloroethene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
Toluene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,2,3-Trichlorobenzene	ND	10	ug/L	10.00	12/16/2003 09:07	
1,2,4-Trichlorobenzene	ND	10	ug/L	10.00	12/16/2003 09:07	
1,1,1-Trichloroethane	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,1,2-Trichloroethane	ND	5.0	ug/L	10.00	12/16/2003 09:07	

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**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s): 5030B	Test(s): 8260B
Sample ID: T3-W	Lab ID: 2003-12-0190 - 7
Sampled: 12/03/2003 15:00	Extracted: 12/16/2003 09:07
Matrix: Water	QC Batch#: 2003/12/16-01.09
Analysis Flag: o ( See Legend and Note Section )	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichloroethene	ND	5.0	ug/L	10.00	12/16/2003 09:07	
Trichlorofluoromethane	ND	10	ug/L	10.00	12/16/2003 09:07	
Trichlorotrifluoroethane	ND	5.0	ug/L	10.00	12/16/2003 09:07	
1,2,4-Trimethylbenzene	320	5.0	ug/L	10.00	12/16/2003 09:07	
1,3,5-Trimethylbenzene	110	5.0	ug/L	10.00	12/16/2003 09:07	
Vinyl acetate	ND	250	ug/L	10.00	12/16/2003 09:07	
Vinyl chloride	ND	5.0	ug/L	10.00	12/16/2003 09:07	
Total xylenes	30	10	ug/L	10.00	12/16/2003 09:07	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	96.1	86-115	%	10.00	12/16/2003 09:07	
1,2-Dichloroethane-d4	91.4	76-114	%	10.00	12/16/2003 09:07	
Toluene-d8	99.1	88-110	%	10.00	12/16/2003 09:07	

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

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Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s):	5030B	Test(s):	8260B
Sample ID:	T7-W	Lab ID:	2003-12-0190 - 12
Sampled:	12/02/2003 16:30	Extracted:	12/16/2003 10:05
Matrix:	Water	QC Batch#:	2003/12/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
MTBE	ND	5.0	ug/L	1.00	12/16/2003 10:05	
Acetone	ND	50	ug/L	1.00	12/16/2003 10:05	
Benzene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Bromodichloromethane	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Bromobenzene	ND	1.0	ug/L	1.00	12/16/2003 10:05	
Bromochloromethane	ND	1.0	ug/L	1.00	12/16/2003 10:05	
Bromoform	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Bromomethane	ND	1.0	ug/L	1.00	12/16/2003 10:05	
2-Butanone(MEK)	ND	50	ug/L	1.00	12/16/2003 10:05	
n-Butylbenzene	ND	1.0	ug/L	1.00	12/16/2003 10:05	
sec-Butylbenzene	ND	1.0	ug/L	1.00	12/16/2003 10:05	
tert-Butylbenzene	ND	1.0	ug/L	1.00	12/16/2003 10:05	
Carbon disulfide	ND	5.0	ug/L	1.00	12/16/2003 10:05	
Carbon tetrachloride	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Chlorobenzene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Chloroethane	ND	1.0	ug/L	1.00	12/16/2003 10:05	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	12/16/2003 10:05	
Chloroform	ND	1.0	ug/L	1.00	12/16/2003 10:05	
Chloromethane	ND	1.0	ug/L	1.00	12/16/2003 10:05	
2-Chlorotoluene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
4-Chlorotoluene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Dibromochloromethane	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	12/16/2003 10:05	
2,2-Dichloropropane	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,1-Dichloropropene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	12/16/2003 10:05	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	12/16/2003 10:05	

Severn Trent Laboratories, Inc.

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

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**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Prep(s): 5030B	Test(s): 8260B
Sample ID: T7-W	Lab ID: 2003-12-0190 - 12
Sampled: 12/02/2003 16:30	Extracted: 12/16/2003 10:05
Matrix: Water	QC Batch#: 2003/12/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dibromomethane	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	12/16/2003 10:05	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Ethylbenzene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	12/16/2003 10:05	
2-Hexanone	ND	50	ug/L	1.00	12/16/2003 10:05	
Isopropylbenzene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	12/16/2003 10:05	
Methylene chloride	ND	5.0	ug/L	1.00	12/16/2003 10:05	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	12/16/2003 10:05	
Naphthalene	ND	1.0	ug/L	1.00	12/16/2003 10:05	
n-Propylbenzene	ND	1.0	ug/L	1.00	12/16/2003 10:05	
Styrene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Tetrachloroethene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Toluene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	12/16/2003 10:05	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	12/16/2003 10:05	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Trichloroethene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	12/16/2003 10:05	

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12/22/2003 16:40

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>T7-W</b>	Lab ID:	2003-12-0190 - 12
Sampled:	12/02/2003 16:30	Extracted:	12/16/2003 10:05
Matrix:	Water	QC Batch#:	2003/12/16-01.09

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,2,4-Trimethylbenzene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
1,3,5-Trimethylbenzene	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Vinyl acetate	ND	25	ug/L	1.00	12/16/2003 10:05	
Vinyl chloride	ND	0.50	ug/L	1.00	12/16/2003 10:05	
Total xylenes	ND	1.0	ug/L	1.00	12/16/2003 10:05	
<b>Surrogate(s)</b>						
4-Bromofluorobenzene	93.8	86-115	%	1.00	12/16/2003 10:05	
1,2-Dichloroethane-d4	100.1	76-114	%	1.00	12/16/2003 10:05	
Toluene-d8	96.7	88-110	%	1.00	12/16/2003 10:05	



**Volatile Organic Compounds by 8260B (Low Level)**

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Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Water**

**QC Batch # 2003/12/16-01.09**

MB: 2003/12/16-01.09-004

Date Extracted: 12/16/2003 07:56

Compound	Conc.	RL	Unit	Analyzed	Flag
MTBE	ND	5.0	ug/L	12/16/2003 07:56	
Acetone	ND	50	ug/L	12/16/2003 07:56	
Benzene	ND	0.5	ug/L	12/16/2003 07:56	
Bromodichloromethane	ND	0.5	ug/L	12/16/2003 07:56	
Bromobenzene	ND	1.0	ug/L	12/16/2003 07:56	
Bromochloromethane	ND	1.0	ug/L	12/16/2003 07:56	
Bromoform	ND	0.5	ug/L	12/16/2003 07:56	
Bromomethane	ND	1.0	ug/L	12/16/2003 07:56	
2-Butanone(MEK)	ND	50	ug/L	12/16/2003 07:56	
n-Butylbenzene	ND	1.0	ug/L	12/16/2003 07:56	
sec-Butylbenzene	ND	1.0	ug/L	12/16/2003 07:56	
tert-Butylbenzene	ND	1.0	ug/L	12/16/2003 07:56	
Carbon disulfide	ND	5.0	ug/L	12/16/2003 07:56	
Carbon tetrachloride	ND	0.5	ug/L	12/16/2003 07:56	
Chlorobenzene	ND	0.5	ug/L	12/16/2003 07:56	
Chloroethane	ND	1.0	ug/L	12/16/2003 07:56	
2-Chloroethylvinyl ether	ND	5.0	ug/L	12/16/2003 07:56	
Chloroform	ND	1.0	ug/L	12/16/2003 07:56	
Chloromethane	ND	1.0	ug/L	12/16/2003 07:56	
2-Chlorotoluene	ND	0.5	ug/L	12/16/2003 07:56	
4-Chlorotoluene	ND	0.5	ug/L	12/16/2003 07:56	
Dibromochloromethane	ND	0.5	ug/L	12/16/2003 07:56	
1,2-Dichlorobenzene	ND	0.5	ug/L	12/16/2003 07:56	
1,3-Dichlorobenzene	ND	0.5	ug/L	12/16/2003 07:56	
1,4-Dichlorobenzene	ND	0.5	ug/L	12/16/2003 07:56	
1,3-Dichloropropane	ND	1.0	ug/L	12/16/2003 07:56	
2,2-Dichloropropane	ND	0.5	ug/L	12/16/2003 07:56	
1,1-Dichloropropene	ND	0.5	ug/L	12/16/2003 07:56	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	12/16/2003 07:56	
1,2-Dibromoethane	ND	0.5	ug/L	12/16/2003 07:56	

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STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

**Volatile Organic Compounds by 8260B (Low Level)**

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Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Water**

**QC Batch # 2003/12/16-01.09**

MB: 2003/12/16-01.09-004

Date Extracted: 12/16/2003 07:56

Compound	Conc.	RL	Unit	Analyzed	Flag
Dibromomethane	ND	0.5	ug/L	12/16/2003 07:56	
Dichlorodifluoromethane	ND	0.5	ug/L	12/16/2003 07:56	
1,1-Dichloroethane	ND	0.5	ug/L	12/16/2003 07:56	
1,2-Dichloroethane	ND	0.5	ug/L	12/16/2003 07:56	
1,1-Dichloroethene	ND	0.5	ug/L	12/16/2003 07:56	
cis-1,2-Dichloroethene	ND	0.5	ug/L	12/16/2003 07:56	
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/16/2003 07:56	
1,2-Dichloropropane	ND	0.5	ug/L	12/16/2003 07:56	
cis-1,3-Dichloropropene	ND	0.5	ug/L	12/16/2003 07:56	
trans-1,3-Dichloropropene	ND	0.5	ug/L	12/16/2003 07:56	
Ethylbenzene	ND	0.5	ug/L	12/16/2003 07:56	
Hexachlorobutadiene	ND	1.0	ug/L	12/16/2003 07:56	
2-Hexanone	ND	50	ug/L	12/16/2003 07:56	
Isopropylbenzene	ND	0.5	ug/L	12/16/2003 07:56	
p-Isopropyltoluene	ND	1.0	ug/L	12/16/2003 07:56	
Methylene chloride	ND	5.0	ug/L	12/16/2003 07:56	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	12/16/2003 07:56	
Naphthalene	ND	1.0	ug/L	12/16/2003 07:56	
n-Propylbenzene	ND	1.0	ug/L	12/16/2003 07:56	
Styrene	ND	0.5	ug/L	12/16/2003 07:56	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	12/16/2003 07:56	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	12/16/2003 07:56	
Tetrachloroethene	ND	0.5	ug/L	12/16/2003 07:56	
Toluene	ND	0.5	ug/L	12/16/2003 07:56	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	12/16/2003 07:56	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	12/16/2003 07:56	
1,1,1-Trichloroethane	ND	0.5	ug/L	12/16/2003 07:56	
1,1,2-Trichloroethane	ND	0.5	ug/L	12/16/2003 07:56	
Trichloroethene	ND	0.5	ug/L	12/16/2003 07:56	
Trichlorofluoromethane	ND	1.0	ug/L	12/16/2003 07:56	
Trichlorotrifluoroethane	ND	0.5	ug/L	12/16/2003 07:56	

Severn Trent Laboratories, Inc.

12/22/2003 16:40

STL San Francisco \* 1220 Quarry Lane, Pleasanton, CA 94566

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3

Oakland, CA 94602-1459

Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081

Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Water**

**QC Batch # 2003/12/16-01.09**

MB: 2003/12/16-01.09-004

Date Extracted: 12/16/2003 07:56

Compound	Conc.	RL	Unit	Analyzed	Flag
1,2,4-Trimethylbenzene	ND	0.5	ug/L	12/16/2003 07:56	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	12/16/2003 07:56	
Vinyl acetate	ND	25	ug/L	12/16/2003 07:56	
Vinyl chloride	ND	0.5	ug/L	12/16/2003 07:56	
Total xylenes	ND	1.0	ug/L	12/16/2003 07:56	
<b>Surrogates(s)</b>					
4-Bromofluorobenzene	101.1	86-115	%	12/16/2003 07:56	
1,2-Dichloroethane-d4	98.6	76-114	%	12/16/2003 07:56	
Toluene-d8	97.3	88-110	%	12/16/2003 07:56	

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

Attn.: Dai Watkins

1120 Hollywood Ave, Suite 3  
Oakland, CA 94602-1459  
Phone: (510) 336-1772 Fax: (510) 336-9119

Project: 0004.081  
Bay Rock Emeryville Corners

Received: 12/04/2003 16:55

Batch QC Report										
Prep(s): 5030B							Test(s): 8260B			
<b>Laboratory Control Spike</b>			<b>Water</b>			<b>QC Batch # 2003/12/16-01.09</b>				
LCS	2003/12/16-01.09-002		Extracted: 12/16/2003			Analyzed: 12/16/2003 06:56				
LCSD	2003/12/16-01.09-003		Extracted: 12/16/2003			Analyzed: 12/16/2003 07:31				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	19.0	19.4	20.0	95.0	97.0	2.1	69-129	20		
Chlorobenzene	20.3	21.1	20.0	101.5	105.5	3.9	61-121	20		
1,1-Dichloroethene	17.6	17.0	20.0	88.0	85.0	3.5	65-125	20		
Toluene	18.8	19.4	20.0	94.0	97.0	3.1	70-130	20		
Trichloroethene	20.3	20.0	20.0	101.5	100.0	1.5	74-134	20		
<b>Surrogates(s)</b>										
4-Bromofluorobenzene	474	474	500	94.8	94.8		86-115			
1,2-Dichloroethane-d4	481	502	500	96.2	100.4		76-114			
Toluene-d8	477	488	500	95.4	97.6		88-110			

**Volatile Organic Compounds by 8260B (Low Level)**

San Joaquin Company, Inc.

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Received: 12/04/2003 16:55

Bay Rock Emeryville Corners

**Legend and Notes**

**Analysis Flag**

o

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

# THE SAN JOAQUIN COMPANY INC.

80846

## CHAIN OF CUSTODY / REQUEST FOR ANALYSIS RECORD **2003-12-0190**

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: **STL San Francisco**  
Carrier: The San Joaquin Company Inc.

Project: **Bay Rock Emeryville Corners**  
Project No.: **0004.081** Project Mgr.: **DJW**  
Sampling Team: **DJW/BM**  
Site Global I.D. No.: n/a

Waybill No.: \_\_\_\_\_ n/a \_\_\_\_\_

Sample Number	Type	Field Point	Depth to GW in ft.	Casing Elev. in ft.	Date Sampled	Time Sampled	Analyses Requested	Lab. No.
T1-7.0	SOL	T1	n/a	n/a	12/3/03	09:45	Hold for further instructions	
T1-8.5	"	"	"	"	"	10:02		
T2-6.5	"	T2	"	"	"	16:45		
T2-8.5	"	T2	"	"	"	16:50		
T3-8.0	"	T3	0	"	"	14:15		
T3-9.5	"	"	"	"	"	14:20		
T3-W H <sub>2</sub> O	"	"	9.0	"	"	15:00		
T4-10.5	SOL	T4	n/a	"	"	11:30		
T5-9.0	"	T5	"	"	12/2/03	11:40		8260 SEAN, 8270 SEAN, TPH(S), TEH(S) DIESEL MINERAL SPIRITS & SOLVENTS
T6-8.5	"	T6	"	"	"	14:30		
T7-9.0	"	T7	"	"	"	16:40	Hold for further instructions	
T7-W H <sub>2</sub> O	"	T7	8.5	"	"	16:30		
T8-8.5	SOL	T8	"	"	"	13:15		

Sample Hazards: Low to moderate concentrations of fuel hydrocarbons

Priority: Routine  Expedited  Special

Notes: Low to High Concentrations of Fuel Hydrocarbons + Solvents E.S. MINERAL SPIRITS

CUSTODY RECORD	Print Name	Company	Date Received	Time Received	Date Relinquished	Time Relinquished	Signature
Originator:	BERNIE DIEZ	San Joaquin Co	—	—	12/4/03	4:55	H. B. Dutz
Received/ Relinquished by:	<del>_____</del>						
Received/ Relinquished by:	<del>_____</del>						
Received/ Relinquished by:	<del>_____</del>						
Received at Laboratory by:	Naenak.	STL-SF	12/4/03	1655	—	—	<i>[Signature]</i>