TERRADEX

2004

September 13, 2004

Mr. Martin Musonge
California Regional Water Quality Control Board – San Francisco Bay Region
1515 Clay St. Suite 1400
Oakland, CA 94612

Re: **Closure Request**
Chevron Service Station 9-6817 + 9-1819
1705 Contra Costa Boulevard
Pleasant Hill, California 94523
Regional Board Case # 07-0437
Local Agency Case # 62918

Dear Mr. Musonge:

Terradex, Inc. requests case closure for the referenced facility on behalf of Chevron Environmental Management Company (CEMC). Based on our review of the site background and conditions, Terradex believes that this site meets the Regional Water Quality Control Board – San Francisco Bay Region (RWQCB-SFBR) definition of a low-risk fuel site, as described in their memorandum "*Interim Guidance on Required Cleanup at Low-Risk Fuel Sites*", dated January 5, 1996. Because chlorinated solvents from a former dry cleaning operation are also constituents of concern, additional closure guidance is drawn from State Water Resources Control Board Resolution 92-49. The residual contamination at the site will continue to naturally attenuate and ultimately be restored to the existing beneficial uses. CEMC proposes a site management plan in order to monitor and control land activities in the unlikely event of potential contact with residual contamination. A summary of site background, site conditions, site closure analysis and site management organize the discussion.

SITE BACKGROUND

The site is an active Chevron service station, located at the southwest corner of Contra Costa Boulevard and Doris Drive in Pleasant Hill, California (Figure 1). Mixed commercial and residential developments comprise the surrounding land use. Local topography is relatively flat at an elevation of approximately 105 feet above mean sea level. Existing and former site features are shown on Figure 2.

Chevron Products Company (Chevron) leased the property in 1950, constructed a service station and has operated continuously, dispensing motor fuels, since that time. Chevron subsequently purchased the property in 1986, along with the adjacent parcel to the south. Prior to 1986, a dry cleaner was located on the adjacent parcel where the car wash is currently located. Two known generations of service station configurations have operated at the site. Sometime in 1987/1988 the station was reconstructed. All surface structures were razed, but the underground tanks and pipes were left in place. A new station building was constructed and a car wash was built on the former dry cleaner property. Current site facilities consist of a station building, three fuel underground storage tanks (UST's), four dispenser

islands, and the car wash. Three onsite wells and four offsite wells have been installed to monitor groundwater. Active groundwater monitoring has occurred since 1986, and is currently done on an annual basis. Previous environmental activities are summarized below:[1]

May 1986, Underground Storage Tank Replacement: Two 10,000-gallon and one 5,000-gallon gasoline USTs and one 1,000-gallon used-oil UST were replaced in May 1986 with double- walled fiberglass tanks. The new fuel and used-oil USTs were replaced in the same excavations as the former USTs. No soil samples were collected from the fuel tank pit. However, a water sample collected from within the pit contained 170,000 micrograms per liter (µg/L) TPHg and 3,100 µg/L benzene. A soil sample collected from the used-oil tank pit at approximately 8 feet below grade (fbg) contained 11 milligrams per kilogram (mg/kg) motor oil, analyzed by EPA Method 3510. No water sample was collected from the used-oil tank pit. During installation of the new fuel USTs, shallow groundwater piezometers MW-1 and MW-2 (later referred to as MW-A and MW-B) were installed in the tank field. Initial sampling of these piezometers indicated separate-phase hydrocarbon (SHP) measured at 0.25-inches in MW-A and MW-B contained 73,000 µg/L TPHg and 24,000.µ/L benzene. It has also been reported that three additional vadose zone monitoring wells. A1 through A3 were installed in the new tank field backfill, however no additional details on these wells were available at the time of this submittal. Additional details are available in Blaine Tech Services reports entitled *"Sampling Report,"* dated May 29 and August 20, 1986.

August 1986, Well Installation: EMCON Associates (EMCON) of San Jose installed two onsite monitoring wells C-1 and C-2 (later referred to as MW-C and MW-D). No soil samples were collected for laboratory analysis. Initial groundwater sampling of these wells indicated 620 µg/L TPHg and 13 µg/L benzene in MW-C, and 58,000 µg/L TPHg and 2,300 µg/L benzene in MW D MW-C also contained various chlorinated solvents including trichloroethene (TCE), tetrachloroethene (PCE), and vinyl chloride. Additional details are available in EMCON's report entitled *"Memorandum,"* dated September 15, 1986.

October 1987, Soil Vapor Contaminant Assessment: EA Engineering, Science, and Technology of Lafayette, California (EA) performed an initial soil-vapor contaminant assessment (SVCA) for petroleum hydrocarbons at points V1 through V11. Aromatic hydrocarbons were detected in soil-vapor centered near the UST complex. Additional data are available in the background section of EA's report, titled *"Report of Investigation"* dated February 3, 1989.

1987-1988, Site Reconstruction: It is reported that during this time the station was reconstructed. All surface structures were razed, but the underground tanks and pipes were left in place. A new station building was constructed and a car wash was built on the former dry cleaner property south of the station. No additional details were available at the time of this submittal.

January 1988, Removal of Used-Oil UST: Blaine coordinated the removal of the 1,000-gallon used-oil tank previously replaced in 1986. No replacement tank was installed. No TPHd was detected in soil samples collected beneath the former tank. Total oil and grease (TOG) was detected at 50 mg/kg. Additional details arc available in Blaine's report entitled *"Cumulative Format Sampling Report,"* dated March 21, 1988.

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[1] Site Summary Chevron Station 9-6817, Cambria Environmental Consultants, June 16, 2003

April 1988, Soil Vapor Contaminant Assessment: EA performed an additional SVCA for chlorinated hydrocarbons at new points Vl through V23. Analytical results indicated PCE was detected over a wide area, both on and offsite, and TCE to a lesser extent. The highest reported concentrations were detected at the former used-oil tank and near the former dry cleaners. Although it was unclear which potential source was responsible for these detections, EA concluded that due to bio-dechlorination of PCE to TCE, the dry cleaning facility was likely the primary source. Additional details are available in BA's report entitled "*Report of Investigation Soil Vapor Contaminant Assessment*," dated May 24, 1988.

August 1988, Well Installation: EA installed three additional wells EA-l, EA-2, and EA-3. Maximum concentrations of TPHg, PCE, and TCE in soil were 770 µg/kg, 328 µg/kg, and 86 µg/kg, respectively. Benzene, toluene, ethylbenzene, and xylenes (BTEX) and vinyl chloride were not detected in any soil sample. The highest concentrations were all detected in samples from EA-3 and confined to within the upper 15 fbg. EA-3 is located offsite, to the west in Linda Avenue. This area is calculated as cross- and slightly upgradient of the site and source areas. EA concluded that both the aromatics and chlorinated hydrocarbons had migrated offsite. Additional details are available in EA's report titled, "*Report of Investigation*," dated February 3, 1989.

June 1989, Well Installation: EA installed downgradient offsite wells EA-4 and EA-5. Only one soil sample from EA-4, collected at 10 fbg, contained hydrocarbons at concentrations of 7.6 mg/kg TPHg and 0.041 mg/kg toluene. Initial groundwater sampling of these wells indicated no chlorinated hydrocarbons, but low concentrations of TPHg, ethylbenzene, toluene, and xylenes were detected in EA-4, located east across Contra Costa Blvd. Additionally, EA conducted a record search of leaking USTs from the State Water Resources Control Board and determined that a leaking 1,000-gallon tank containing mineral spirits had been reported at a paint store at 1725 Contra Costa Blvd. in Pleasant Hill. This address is adjacent to, and upgradient of the site. The paint store was reported to have been in existence for over 40 years. The tank was removed in 1986. Two soil samples collected during this tank removal were reported to contain 12 and 18 mg/kg mineral spirits. No other analyses were conducted. EA also determined that the Taco Bell property across Contra Costa Blvd. was at one time a Wilshire service station. In addition, a Union 76 station was located adjacent and north of the Taco Bell property. This station has since been reconstructed as a McDonald's restaurant. Additional details are available in EA's report, titled "*Report of Investigation-Soil Vapor Contaminant Assessment.*" dated August 9, 1989.

August 1991, Groundwater Remediation System Start-up: Beginning in August of 1991, groundwater was extracted from well EA-2 and processed through three, 200-pound aqueous carbon units arranged in series. During continuous operation through November 1991 approximately 190,682-gallons of water was extracted at an average flow rate of 2 gallons per minute (gpm). Between March and October of 1991, approximately 1.6-gallons of SPH were bailed from well MW-I). Additional details are available in EA's report, titled "*Report of System Startup and Efficiency*," dated December 1991.

May 1992, Modification of Remediation System: The remediation system was modified by Geraghty & Miller, Inc. (GM) to include well MW-D as a second extraction well to remove additional dissolved-phase hydrocarbons downgradient of the aromatic source area. Additional details are available in GM's letter, titled "*Extraction System Modifications,*" dated May 11, 1992.

November 1995 Product Line Removal: As part of site renovations, trench liners, pea gravel, and product piping were removed, and Touchstone Developments Environmental Management (TD) of Pleasanton collected compliance soil samples. Maximum concentrations of TPHg and benzene were 80

mg/kg and 2.2 mg/kg, respectively, in sample P-3. Results for total lead were below California hazardous classification. Additional details are available in TD's report, titled "*Product Line Removal Report*" dated December 19, 1995.

July 1996, Remediation System Shutdown: In July 1996, the pump and treat system was shut down. The system had operated almost continuously, with minor down time for system repairs and upgrades, from August 1991 to July 1996. During this time, an estimated 11.5 pounds of TPHg and 41.1-pounds of chlorinated hydrocarbons were removed. Approximately 1,900,000 gallons of hydrocarbon-impacted water were treated.

December 1997, Groundwater Monitoring: Groundwater monitoring and sampling has routinely been performed since December 1987 from up to seven monitoring wells located on and off the site. Currently wells MW-C, EA-3, and EA-5 are monitored annually under the oversight of the California Regional Water Quality Control Board, San Francisco Bay Region. Groundwater samples from these wells are analyzed for TPHg, BTEX, oxygenates including MTBE, and chlorinated solvents. In order to provide a complete assessment of current groundwater conditions, all the available wells MW-C, MW-D, and EA-1 through EA-5 were sampled on May 12, 2003 and analyzed for all previously detected gasoline and chlorinated solvent compounds.

SITE CONDITIONS

Geologic and Hydrogeologic Setting.

The site is underlain by clay with thin, discontinuous gravel or sand lenses to the total depth investigated of 30 feet below grade (fbg). Estimated permeability in shallow soils is low. The groundwater flow direction is northeast. The depth to groundwater has ranged from 5.5 fbg to 19.5 fbg with an average depth of 9.5 feet. Groundwater fluctuates approximately 3 feet annually. The gradient has been over the years to the northwest and a magnitude of approximately 0.005 to 0.01. Recent groundwater contours are presented with Figure 3 along with a rose diagram of groundwater flow directions at the site.

Hydrocarbon Distribution in Soil

A summary of soil hydrocarbon data is presented within Attachment A. Soil samples were collected during the 1986 UST replacements, the 1986 well installations, and the 1988 used-oil UST removal. In 1986, 11 mg/kg TOG was detected beneath the first used-oil tank. In 1988, 50 mg/kg TOG was detected beneath the second removed used-oil tank. Additional soil samples were collected from wells EA-1 and EA-2, and the 1995 product line removal and replacement. The maximum TPHg and benzene concentrations reported for soil were 80 mg/kg and 2.2 mg/kg, respectively, collected from product line sample P-3 at 3.5 fbg. The maximum concentration of TPHg from offsite borings was 770 mg/kg collected from EA-3 in the composite sample from 5-10 fbg. No benzene was detected in soil samples from any offsite borings. The highest concentrations of PCE and TCE of 328 mg/kg and 86 mg/kg, respectively, were detected in offsite well EA-3 in the composite sample from 5-10 fbg. The maximum PCE concentration onsite was 64 mg/kg from EA-2 at 15 fbg. No TCE was detected in any onsite soil samples and no vinyl chloride has been detected in any soil sample.

Groundwater Quality

A summary of groundwater quality at the site is presented with Attachment B.

Low concentrations of dissolved hydrocarbons and chlorinated solvent compounds have been detected in soil and groundwater, both onsite and offsite, resulting from historical service station operations and a former dry cleaning facility. Remediation at the site, including seven monitoring wells, soil-vapor contaminant investigations, source removal, and pump and treat system operations, appear to have satisfactorily removed all SPH, reduced groundwater concentrations by at least an order of magnitude, and stabilized the existing plume by 1996 when the pump and treat system was shut down. Since that time, natural attenuation appears to have continued reducing dissolved petroleum hydrocarbon concentrations and degradation of chlorinated solvents.

The highest concentrations of both petroleum hydrocarbons and chlorinated solvents measured recently were in groundwater samples from EA-2. EA-2 contained 3,300 µg/L TPHg, 3.0 µg/L MTBE, 3,100 µg/L PCE, 3,600 µg/L TCE, 81 µg/L vinyl chloride, 28 µg/L T-1,2-DCE, and 2,900 µg/L Cis- 1, 2-DCE. No BTEX was detected in EA-2. EA-2 is located onsite near the former used- oil UST and former dry cleaning facility. EA-2 was not sampled in 2004 because of inaccessibility.

CLOSURE STATUS REVIEW

Currently, there are no regulatory requests for further investigation at this site. The current regulatory expectation is for continued monitoring of groundwater at the site.

CEMC proposes a long-term site management plan for the site. The site management plan represents a program of activities to validate continued natural attenuation and to control land activities to protect public health, the environment and water resources. The site management plan will monitor and control land activities in a land management zone represented within Figure 10. Water resources will be protected by continued monitoring of well EA-5 as a Sentinel Well, and observation of water well permit within 1,000 feet of the site. After acceptance of the site management plan, no further regulatory oversight should be required until and unless an exception within the site management plan occurs.

Closure in conjunction with a site management plan appears consistent with applicable State policies including: 1) the Regional Board Supplemental Instructions to State Water Board December 8, 1995, Interim Guidance on Required Cleanup at Low-Risk Fuel Sites and 2) SWRCB Resolution No. 92-49, Policies and Procedures for Investigation and Cleanup and Abatement of Discharges under Water Code §13304. The consistency between the subject site and this applicable guidance follows:

Consistency with Regional Board Supplemental Instructions to State Water Board December 8, 1995, Interim Guidance on Required Cleanup at Low-Risk Fuel Sites

The site conditions appear to qualify the site as low risk; the applicable criteria are as follows:

- The leak has stopped and ongoing sources, including free product, have been removed or remediated;
- The site has been adequately characterized;

- The dissolved hydrocarbon plume is not migrating;
- No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted; and
- The site presents no significant risk to human health or the environment.

The Leak Has Stopped and Ongoing Sources, Including Free Product Have Been Removed. Given that the underground storage tanks with associated piping and dispensers have been replaced, the dry cleaning operation has ceased, it appears that the leak has stopped and there are no ongoing sources. Free product was present in wells MW-A and MW-B located in the tank backfill, from September 1986 through January 1987 and in MW-D from December 1990 through June 1993. Since 1993, no SPH has been observed in any wells.

The Site Has Been Adequately Characterized. The subsurface impact has been defined to the degree that is necessary to determine if the site poses a threat to human health, the environment, or other sensitive nearby receptors. There are no pending requests for further site characterization or delineation.

The Dissolved Hydrocarbon Plume is Not Migrating. The stability of the plumes is demonstrated by separate analysis of the fuel hydrocarbons from the gas station and halogenated volatile organics from the former dry cleaning operation. The most recent groundwater monitoring results confirm the overall attenuation of both petroleum hydrocarbons and chlorinated solvents concentrations in groundwater.

- **Petroleum Hydrocarbon Stability.** TPHg and benzene plumes are stable, and have generally decreased in all wells over time. The historic area of maximum concentration was near the underground storage tank complex, where the petroleum impact has nearly completely attenuated. A noted exception to the decrease in TPHg occurred in Well EA-2 where TPHg increased to a historic high for the well. That benzene was relatively low relative to the TPHg indicates that the hydrocarbon is a legacy from the earlier release, and should attenuate consistent with trends established at the site. The impact to off-site areas has steadily receded to within the site, as represented by the regression of the 500 ppb iso-concentration contour to the site.

  Analysis of TPHg and benzene trends in site monitoring wells is presented within Figures 3 and 4. Based upon remediation and natural attenuation, benzene has attenuated to below Environmental Screening Levels applied by the CRWQCB-SFBR. With one exception, TPHg residuals have trended downward in all wells; the exception is an elevated detection of TPHg in on-site Well EA-2. Higher groundwater elevations appear to have solubilized weathered fuel hydrocarbons that had been adsorbed to vadose soils. As such, downward trends are expected to continue in Well EA-2.

  The regression in the plume extent is evident by observing on Figure 6 the 500 ppb isocontour line of TPHg between 1989, 1995 and 2003. These years were selected because within these years all site wells were sampled. It is evident that the 500 ppb isocontour line has regressed from an off-site location north of Doris Drive to an interpolated location beneath the site.

  The reduction in plume mass is evident on a slice analysis of the isocontours from 1989, 1995 and 2003. A slice line was constructed in the downgradient flow direction and across the UST

complex. The reduction of TPH mass is event by observing the 1989 concentration profile, and the relatively lower 2003 concentration profile.

Detected oxygenates, TAME and TBA, ranged from non-detect to 90 µg/L (EA-5) and non-detect to 82 µg/L (EA-1), respectively. Fuel oxygenates do not appear to be a constituent of concern.

- **Chlorinated Hydrocarbon Stability.** The chlorinated hydrocarbons compounds associated with the former dry cleaning operation include tetrachloroethene (PCE), and it biodegradation daughter compounds including trichloroethene (TCE), cis- and trans- isomers of 1,2-dichloroethene, 1,1-dichloroethene, 1,2-dichlorethane and vinyl chloride. The natural attenuation of these chlorinated hydrocarbons are evaluated on a molar basis (sum of the molecules), rather than on a mass basis. PCE and its daughter compounds are summed on a molar basis to permit trend analysis.

  Analysis of chlorinated solvent trends in site monitoring wells is presented within Figure 5. The overall molar mass in wells has been stable around the former dry cleaning operation.

  The stability of the plume extent is evident by observing on Figure 6 the 10 µ-mole/L isocontour line of chlorinated organics between 1989, 1995 and 2003. As with the TPHg, these years were selected because within these years all site well were sampled. It is evident that the 10 µ-mole/L isocontour line has regressed from an off-site location north of Doris Drive to an interpolated location beneath the site. Furthermore, the stability in the chlorinated solvent plume mass is evident on Figure 7 when a slice through the isocontours from 1989, 1995 and 2003 is reviewed. A slice line was constructed in the downgradient flow direction.

No Water Wells, Deeper Drinking Water Aquifers, Surface Water or Other Sensitive Receptors are Likely to be impacted. The release occurred over the Ygnacio Valley Groundwater Basin, a basin identified for potential beneficial uses including municipal drinking water and agriculture[2].

A search at the California Department of Water Resources in 1989 by EA Engineering, Science and Technology located well boring records for seven wells within 0.5 mile of the site (Attachment C). Of the seven wells, one could not be exactly located because of poor records, one had been destroyed, and five appeared to be used for irrigation on residential property. The wells are located approximate one-half mile from the site, and away from the direction of groundwater flow. In Pleasant Hill, municipal water is supplied by both the East Bay Municipal Utility District and the Contra Costa Water District. These agencies obtain their supplies from the Sierra Nevada and the Delta.

The nearest mapped surface water is a tributary of Grayson Creek that flows to the north 2,000 feet west of the site. Walnut Creek, approximately 2,000 feet east of the site, also flows north. In the vicinity of the site Walnut Creek is controlled by a levee or culvert. Both creeks feed Pacheco Creek, which empties into Suisun Bay. Given the large distance to these surface waters, they would not be impacted now or into the future.

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[2] Water Quality Control Plan, San Francisco Bay Region, California Regional Water Quality Control Board – San Francisco Bay Region, July 1995

The Site Presents No Significant Risk to Human Health or the Environment. Currently the site appears to present no significant risk to human health or the environment. In conjunction with a site management plan, the site will not present a significant risk to human health or the environment into the future.

Risk was assessed through a conceptual site model (CSM, Figure 8); the CSM is the planning tool that organizes what is already known about the site to make the decisions for site closure consideration. The approach to analyzing residual risk is consistent with the ASTM RBCA guidelines and California water quality policy. The CSM is used to generate potential exposure route/receptor scenarios; these scenarios provide the basis for site management requirements.

- **Primary Sources.** The primary source for petroleum was likely from an underground storage tank or product line, and the primary source for the chlorinated solvents from a former dry cleaning operation and now the car wash. The SPH has been removed through remediation activities. The constituents of concern applied in this analysis are benzene, PCE and TCE. These have been selected as representative of the larger group of contaminants for site risk analysis.

- **Secondary Sources.** The primary source caused two secondary sources: affected surface soils and a limited dissolved groundwater plume.

  - **Affected Surface Soils (<3 ft depth and >3 ft depth).** Residual petroleum hydrocarbons and chlorinated organics likely remain in soils, though removal actions occurred associated with tank and product line replacements.

  - **Dissolved Groundwater Plume.** A groundwater plume occurs beneath the site and extends into Contra Costa Boulevard, Dorris Drive and Linda Avenue at a depth of approximately 10 feet below ground surface.

- **Transport Mechanisms.** There are two potential transport mechanisms operating on the secondary sources:

  - **Volatilization and Enclosed Space Transport.** Transport of hydrocarbons from the deep affected surface soils through the vadose zone and into an enclosed space is a potential transport mechanism. The station building is the only enclosed space at the property, and is slab on grade structure. The station building is not located over the primary source areas for either petroleum hydrocarbons (*i.e.* the UST complex) or chlorinated solvents (*i.e.* the former dry cleaning location).

  - **Leaching and Groundwater Transport.** Leaching and groundwater transport is a potential transport mechanism between the secondary sources and potential receptors.

- **Exposure/Receptor Scenarios.** The CSM extrapolates scenarios where an exposure route to a potential receptor may occur now or into the future.

  - **Construction Worker Contact with Soil.** Within this scenario, construction workers could contact soils containing petroleum hydrocarbons or chlorinated organics within a

future construction project (there is no existing construction at present). This scenario is valid if excavation were to occur on the site or within surrounding streets.

- **Inhalation by Resident or Commercial Worker of Vapor Hydrocarbons.** Evaluation of this scenario considers the existing case and the potential future case. In the existing case, the commercial occupancy of the service station building is evaluated. The station building does not overlay either the petroleum hydrocarbon primary source or the chlorinated organic primary source. Environmental screening levels applied by the CRWQCB-SFBR are used to screen groundwater quality for protecting the indoor air quality within an enclosed space. Groundwater quality at well MW-C, located approximately 25 feet from the building, is compared to screening levels intended for use at sites with lower permeability soils in the vadose zone. The constituents of concern are below the screening level applied by the RWQCB-SFBR to identify commercial risk.

Analysis of Groundwater Quality for Indoor Air Quality Risk at Station Building

Constituent of Concern	Environmental Screening Levels[1]	Groundwater Quality at MW-C[2]
Benzene	6,400	<0.5
Trichloroethene	6,900	160
Perchloroethene	1,700	510

[1]Environmental Screening Levels for Sites With Impacted Soil and Groundwater. SF Bay RWQCB, July, 2003, Table E-1a. Groundwater Screening Levels For Protection of Indoor Air Quality (Low/Moderate PermeabilityVadose-Zone Soil Type)
[2]Sampled May 2004

There are three potential future scenarios where an exposure scenario exists causing inhalation of hydrocarbon vapors: 1) the use of the property changes from commercial to residential in which sensitivity increases, 2) the location of the structure were to be placed above the former dry cleaner area in which the dose could be greater concentration, or 3) subsurface construction were to occur into the property and adjacent street in which the receptor is in greater proximity to the dose. Within these scenarios there is a potential that applicable ESLs could be exceeded, however any determination is dependent upon the construction plans with any future project.

- **Environmental Receptor Contact with Soil.** There appears to be no environmental receptor in contact with residual contamination. Within this scenario, soils excavated in the future could be excavated and inadvertently disposed causing exposure to an environmental receptor.

- **Groundwater Use for Drinking Water or Agricultural.** Groundwater quality exceeds ESLs for ingestion. There appears to be no current ingestion of groundwater, nor use for

agricultural purposes, a finding based upon water wells survey conducted in previous investigations. While groundwater quality exceeds ESLs for use as drinking water, any future use of groundwater beneath and adjacent to the site is a potential but unacceptable exposure scenario. This is unlikely given the expectation that the drinking water is served by the East Bay Municipal Utility District.

SWRCB Resolution 68-16 "Statement of Policy with Respect to Maintaining High Quality of Waters in California"

SWRCB Resolution No. 92-49, Policies and Procedures for Investigation and Cleanup and Abatement of Discharges under Water Code §13304 directs that water affected by an unauthorized release attain either background water quality or the best water quality that is reasonable if background water quality cannot be restored. (SWRCB Resolution No. 92-49, section III.G.). Even after extensive groundwater remediation, current water quality does not achieve the water quality objectives set forth in the Basin Plan.

However, Resolution No. 92-49 does not require that the requisite level of water quality be met at the time of site closure. Resolution No. 92-49 specifies compliance with cleanup goals and objectives within a reasonable time frame. (SWRCB Resolution No. 92-49. at section III.A.) Therefore, even if the requisite level of water quality has not yet been attained, a site may be closed if the level will be attained within a reasonable period. The SWRCB expects residuals to attenuate within a few decades.[3]

While water quality degrades toward attaining the water quality objectives, human health, safety and the environment, the SWRCB expects the protection of human health, safety and the environment. Site management requirements can be set as a condition of closure.

SITE MANAGEMENT PLAN

After site closure and as the residual contamination degrades toward attaining the water quality objectives, the SWRCB expects the closure remedy to be protective of human health, safety and the environment. Site management requirements can be set as a condition of closure, and provide the protective measures over time. Site management can assure that assumptions provided in the risk management plan are valid into the future. Site management can assure that potential future land activities conflicting posing a risk are detected and controlled. The following elements assumptions of the risk assessment will be validated through the site management plan:

- Water resources are not developed at or nearby the site. A 1,000 foot observation zone will be maintained.
- Paving across the site is maintained to prevent mobilizing residual contaminants in vadose zone.

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[3] State Water Resources Control Board Order: WQ 98 - 13 – UST In the Matter of the Petition of Landis Incorporated

- Excavations greater than five feet do not occur to the contact the residual contamination or groundwater. This will be managed within the site management zone.
- Continued commercial use and commercial occupancy of the site. Residential or sensitive land uses such as day care would be prevented.
- No new occupied commercial structures located above the location of the former dry cleaning operation, unless residuals are mitigated. Currently no construction at the site is planned.
- Groundwater plume remains stable and does not migrate beyond EA-5

CEMC proposes the use of a site management plan at the site and surrounding streets. The location of the land use management zone is represented within Figure 9. A site management plan is presented within Attachment 3. Within the site management plan, a process is described whereby proactively land activities at and nearby the site can be monitored, and the responsible party and stakeholders notified before an activity that conflicts with the risk assessment assumptions occurs. Additionally, water quality from well EA-5 would be analyzed annually to validate consistency with water quality trends. Upon approval of this closure request by the CRWQCB-SFBR, CEMC will initiate the abandonment of site monitoring wells with the exception of well EA-5. This well is located downgradient of the site within Contra Costa Boulevard. The site management plan would be maintained indefinitely given the persistence of the chlorinated solvents. CEMC may in the future submit documentation to terminate the site management plan based upon a finding that residuals pose no threat with unrestricted land use.

CONCLUSIONS AND RECOMMENDATIONS

The foregoing analysis represents the site appears to satisfy a "Low Risk Groundwater Case" as explained in the Interim Guidance document by the CRWQCB-SFBR, and offers consistency with SWRCB Resolution 92-49. Closure in conjunction with a site management plan adequately protects human health, safety and the environment and restores and protects current and potential beneficial uses of water.

Thank you for considering this closure request. Please call Bob Wenzlau at 866-461-5100 if you have any questions or comments.

Sincerely,

Terradex, Inc.

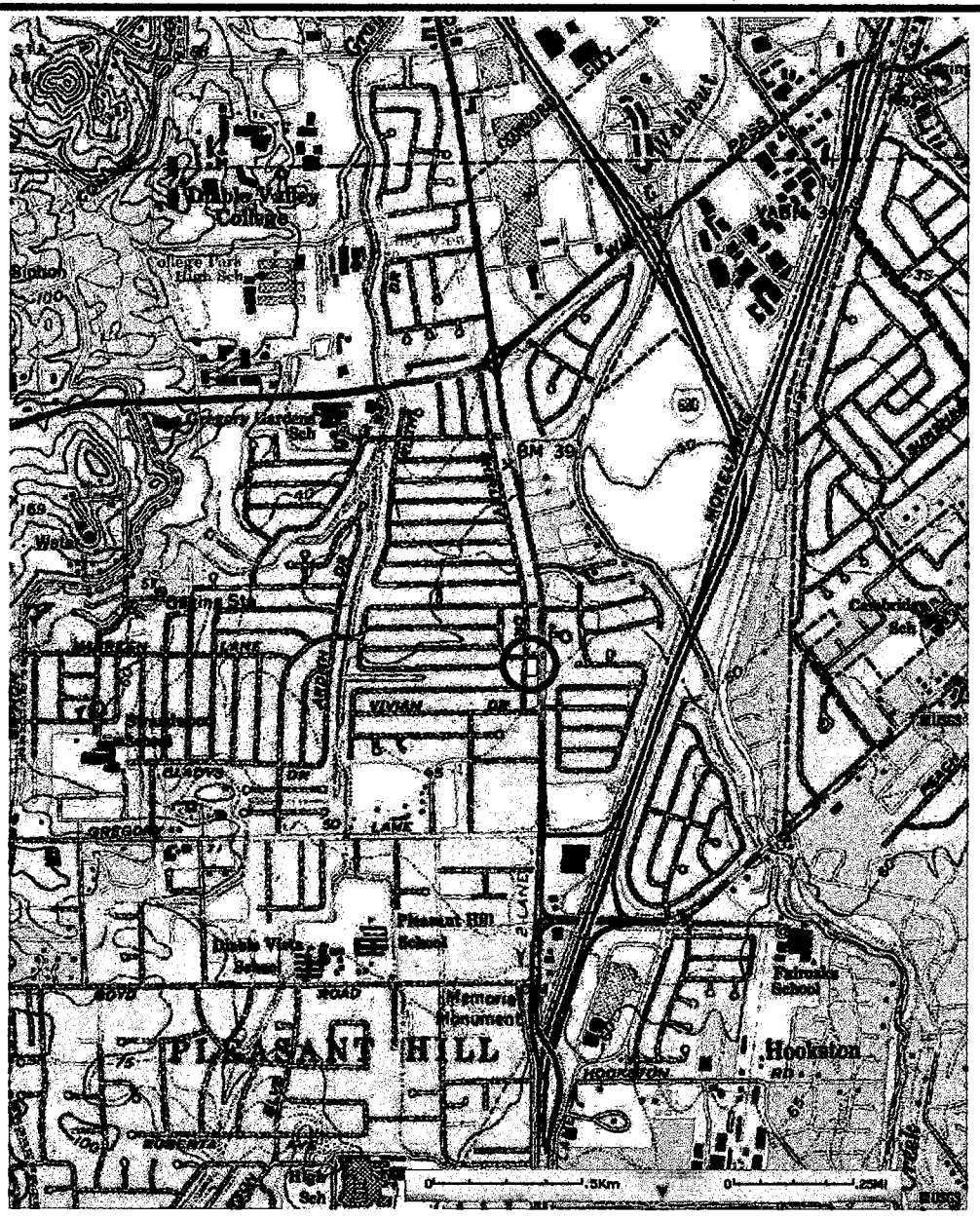
Robert K. Wenzlau, P.E.
Senior Engineer

REGISTERED PROFESSIONAL ENGINEER
ROBERT K. WENZLAU
No. 37395
EXP. 6-30-06
CIVIL
STATE OF CALIFORNIA

cc. Tom Bauhs, CEMC

Figures:
1 – Vicinity Map
2 – Site Plan
3 – Recent Groundwater Contours
4 – TPHg Trends
5 – Benzene Trends
6 – Halogenated Volatile Organic Compound Trends
7 – Plume Stability Analysis – Map View
8 – Plume Stability Analysis – Slice View
9 – Conceptual Site Model
10 – Land Use Management Zone

Attachments:
A – Soil Analytical Data
B – Groundwater Analytical Data
C – Well Survey
D – Site Management Plan



Site Location

LATITUDE: 37.953011
LONGITUDE: -122.0594
NAD 83

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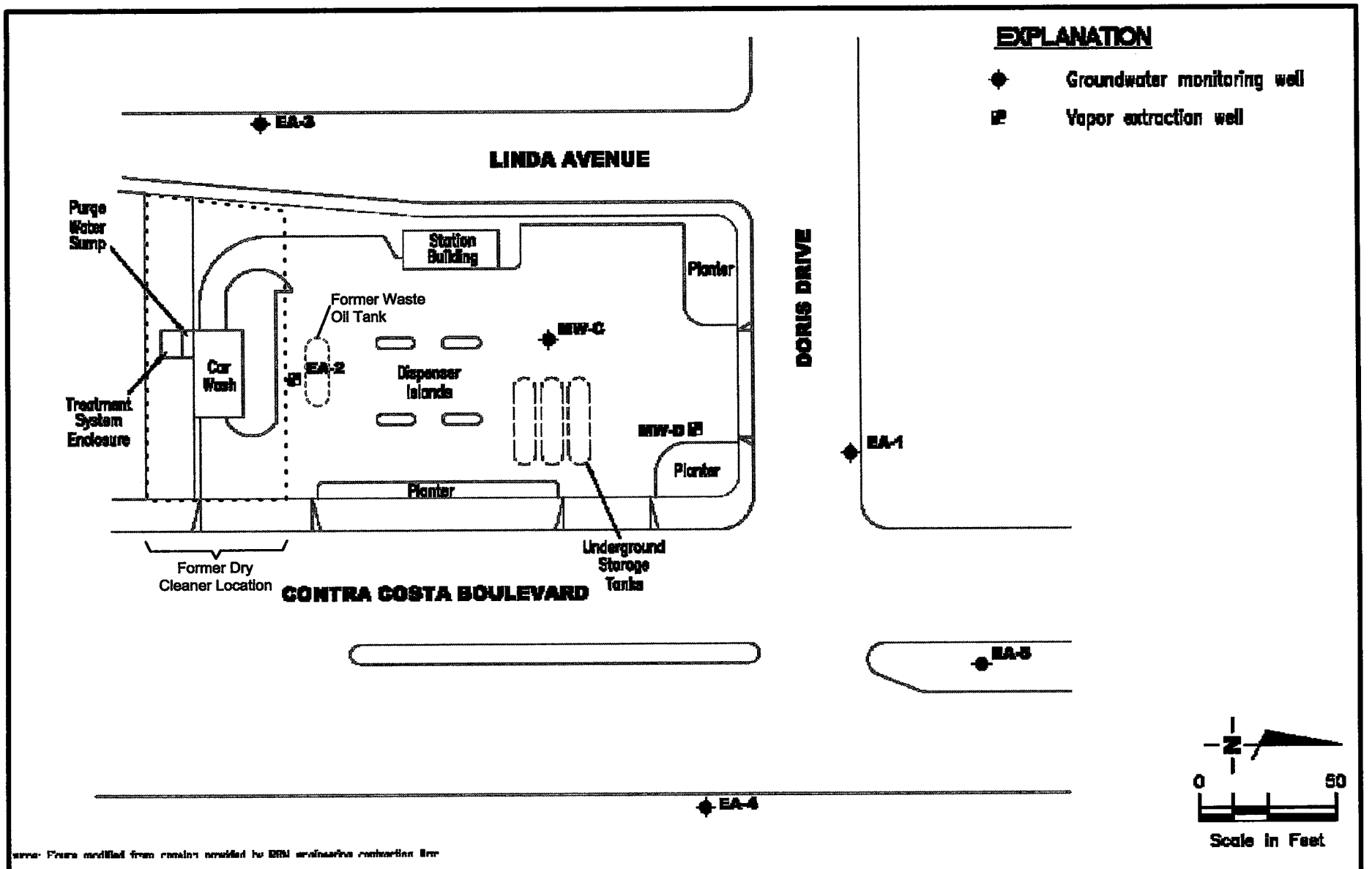
Vicinity Map
Chevron Service Station 9-6817
1705 Contra Costa Boulevard, Pleasant Hill, California

Figure
1



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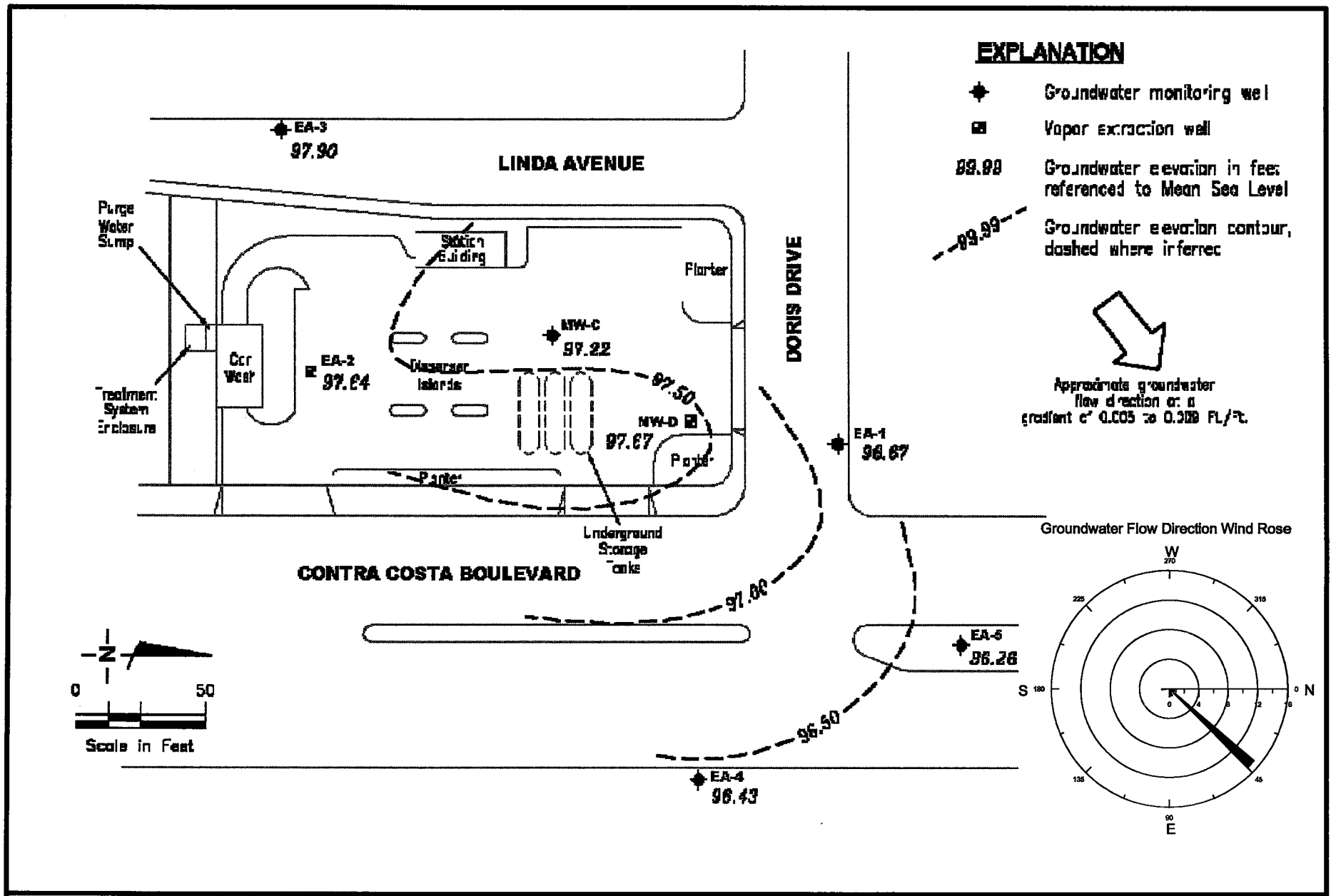
Site Plan
Chevron Service Station Station #9-6817
1705 Contra Costa Boulevard, Pleasant Hill, California

Figure
2



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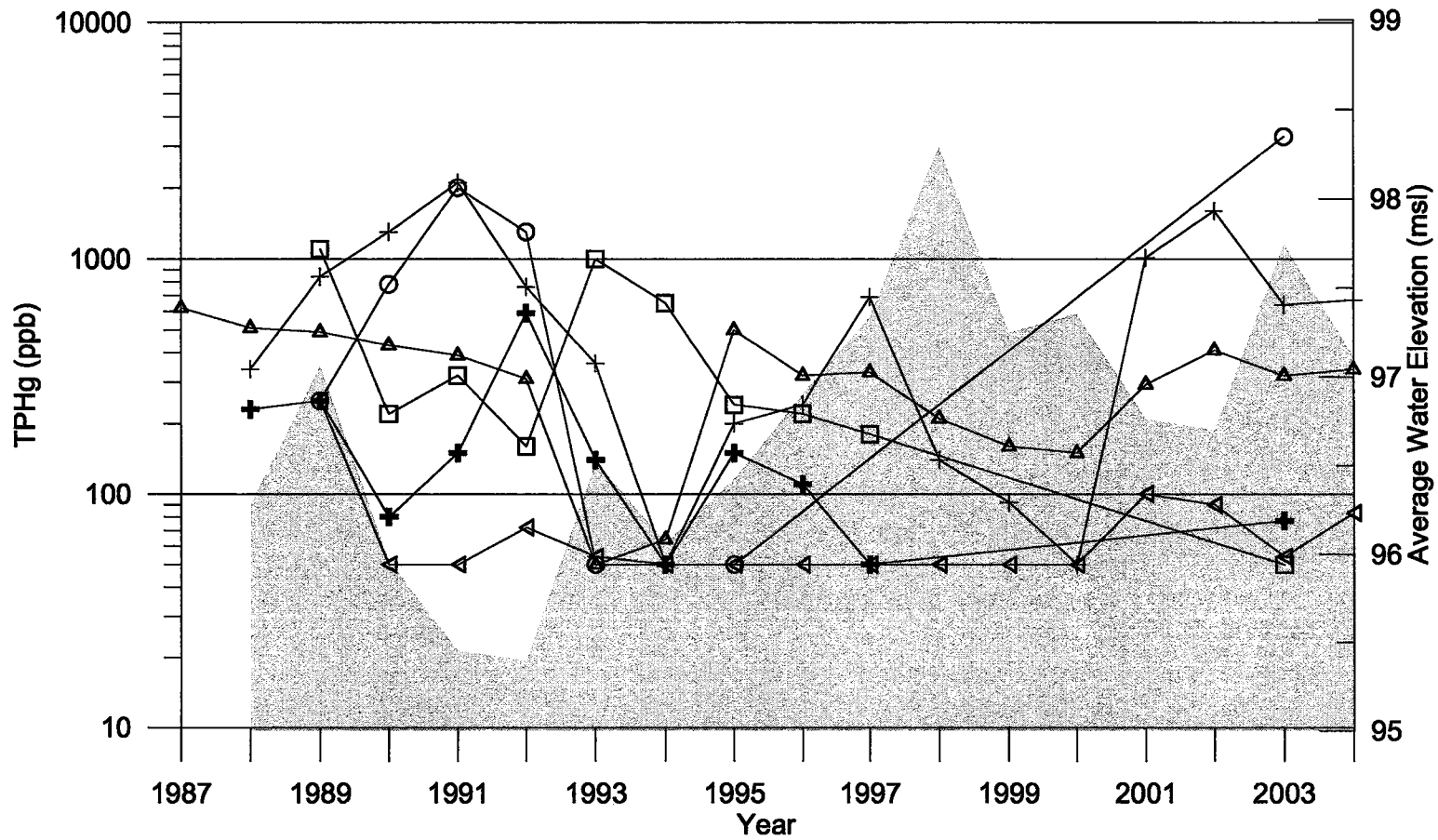
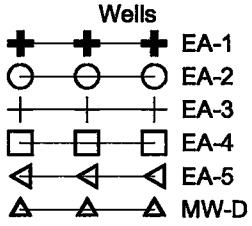
Recent Groundwater Contours (May 2004)
Chevron Service Station 9-6817
1705 Contra Costa Boulevard, Pleasant Hill, California

Figure
3





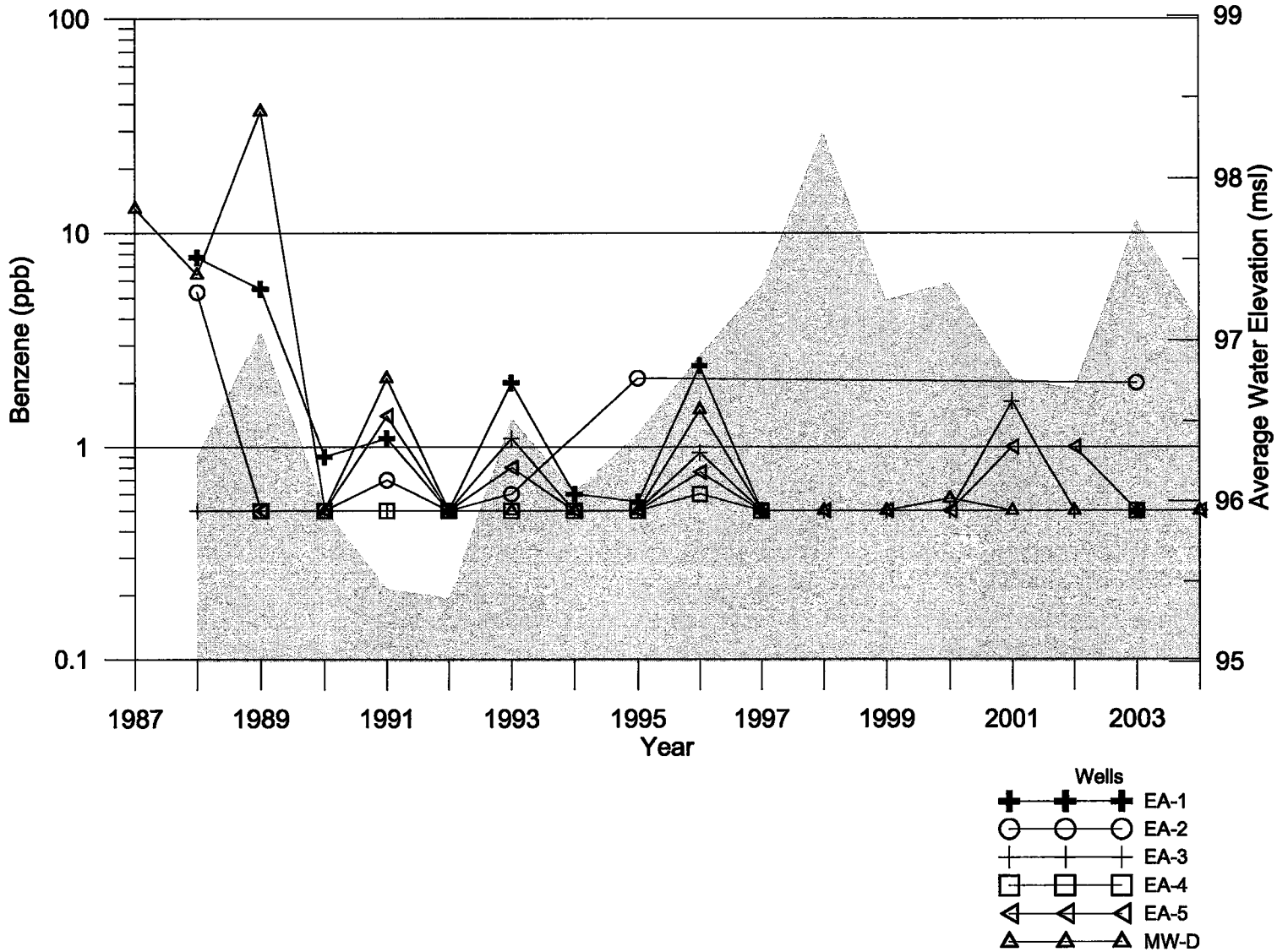
Notes:

- The maximum concentration for a given well in a given year is used within the chart.
- Groundwater elevation is median elevation for all wells in a given year.

TERRADEX

TPHg Trends
Chevron Service Station Station #9-6817
1705 Contra Costa Boulevard, Pleasant Hill, California

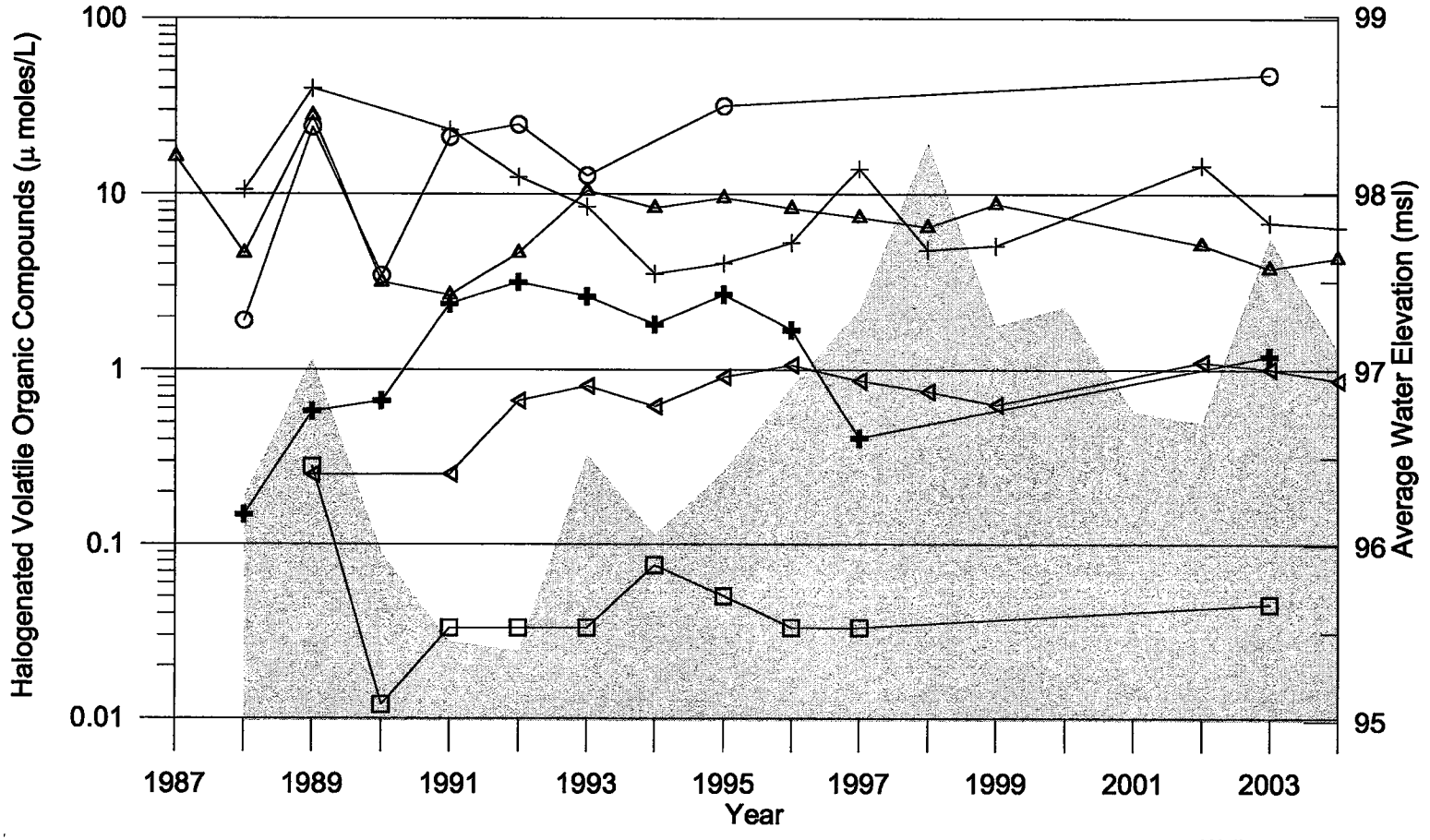
Figure
4



TERRADEX

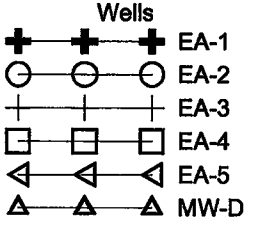
Benzene Trends
Chevron Service Station Station #9-6817
1705 Contra Costa Boulevard, Pleasant Hill, California

Figure
5



Notes:

- Halogentated Volatile Organic Compounds in groundwater are presented in molar concentration for the total of TCE,PCE, T-1,2,-DCE, VC, C-1,2-DCE, 1,2-DCA, and 1,1-DCE. The maximum concentration for a given well in a given year is used within the calculation.
- Groundwater elevation is median elevation for all wells in a given year.

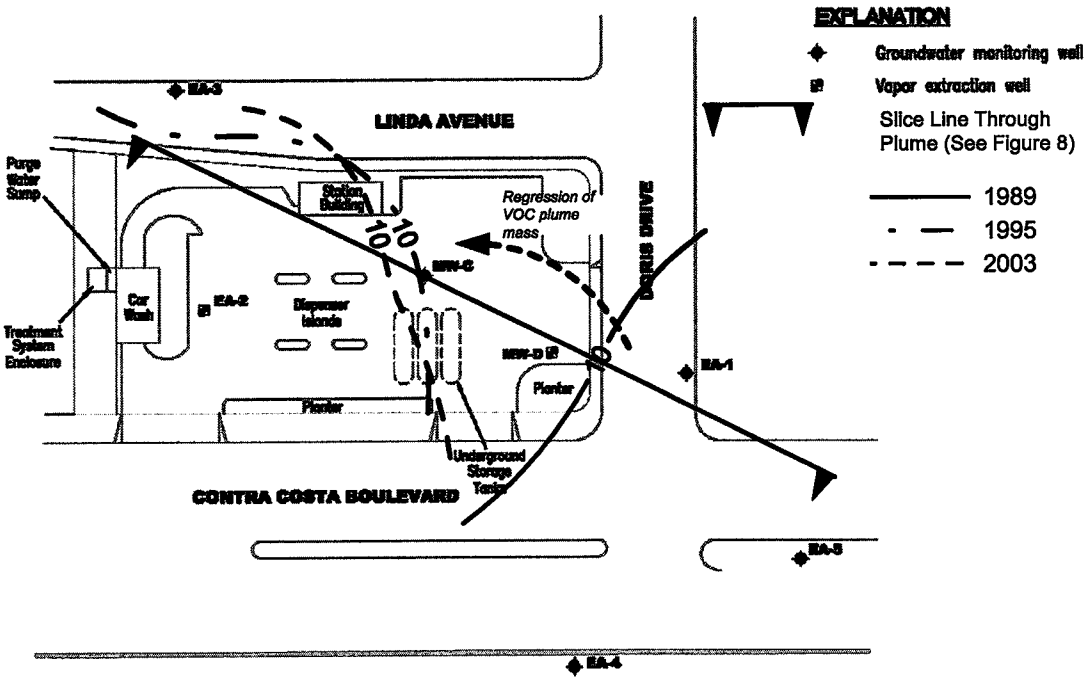


TERRADEX

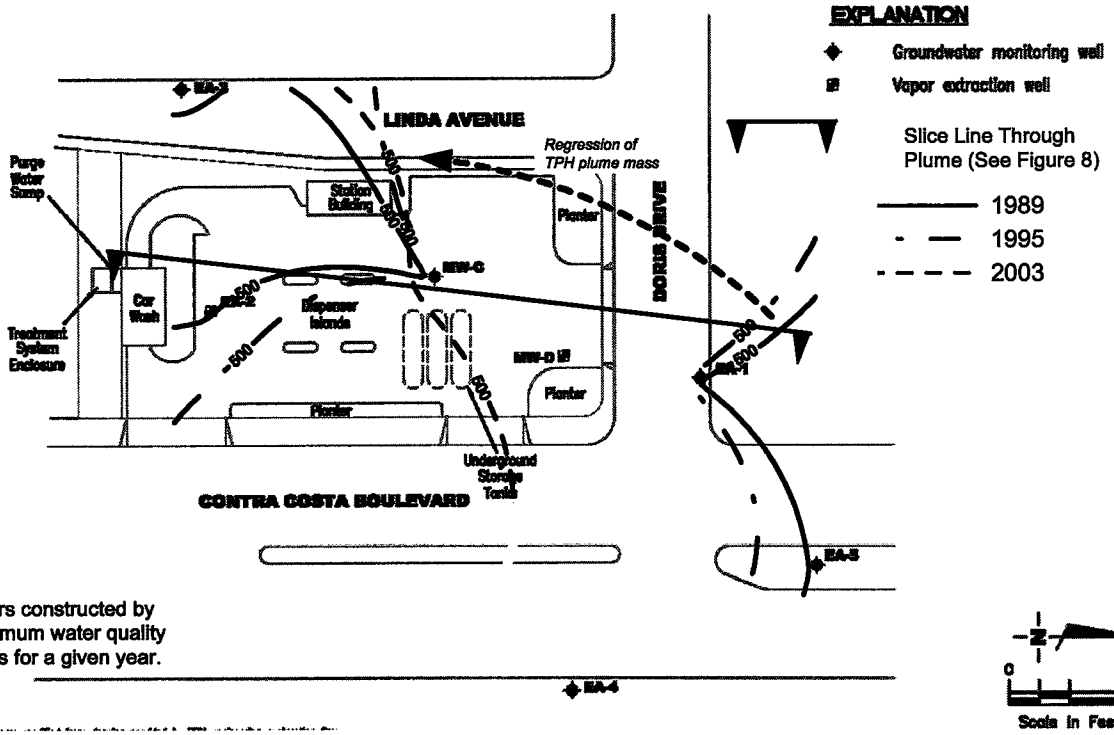
Halogenated Volatile Organic Compound Trends
Chevron Service Station Station #9-6817
1705 Contra Costa Boulevard, Pleasant Hill, California

Figure
6

Halogenated Volatile Organic Compounds (μ - moles/L)



Total Petroleum Hydrocarbons (ppb)

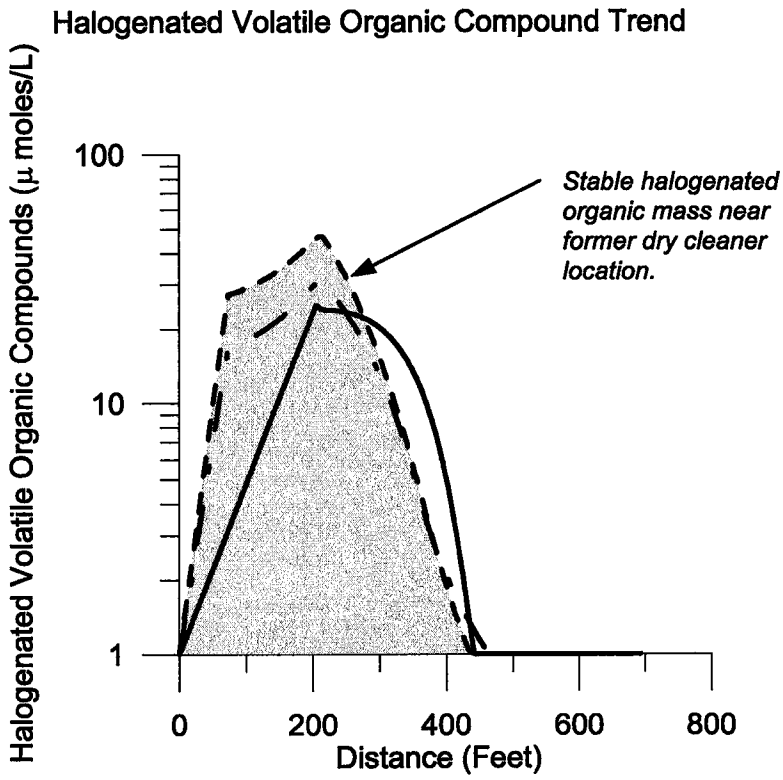


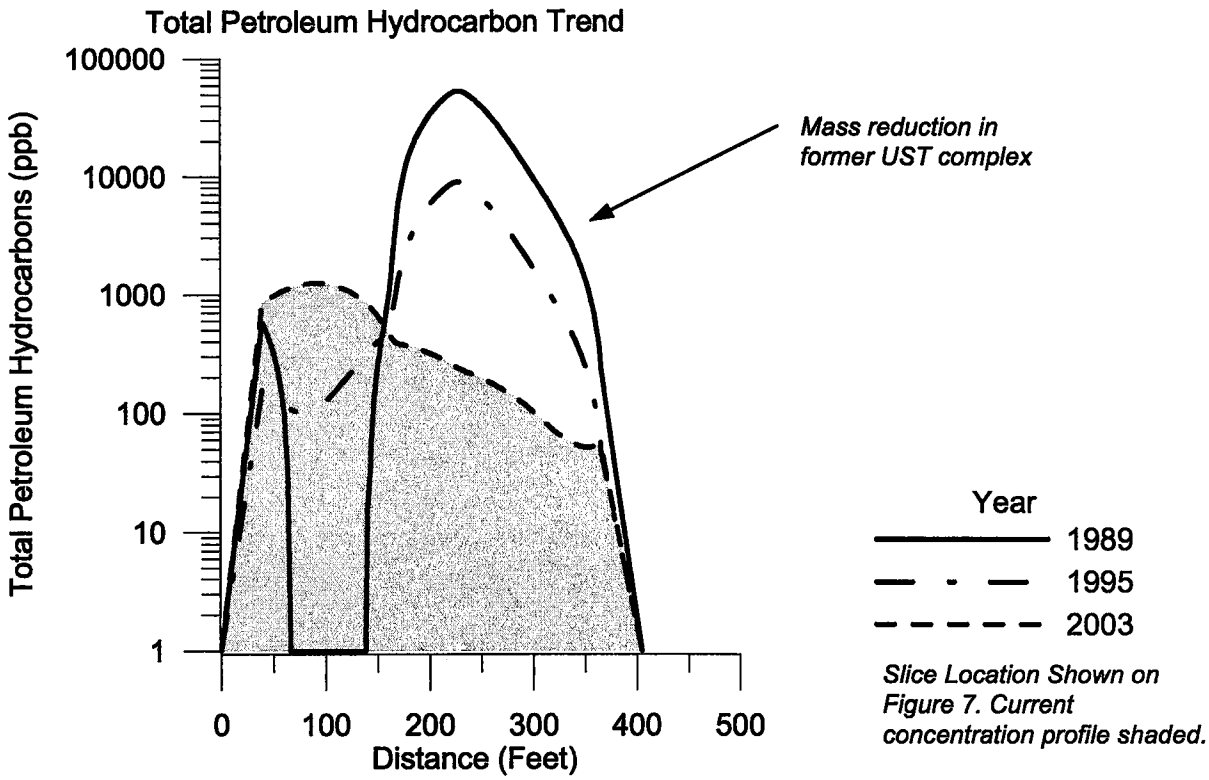
Note: Contours constructed by Krieging maximum water quality concentrations for a given year.

TERRADEX

Plume Stability Analysis - Map View
Chevron Service Station Station #9-6817
1705 Contra Costa Boulevard, Pleasant Hill, California

Figure 7

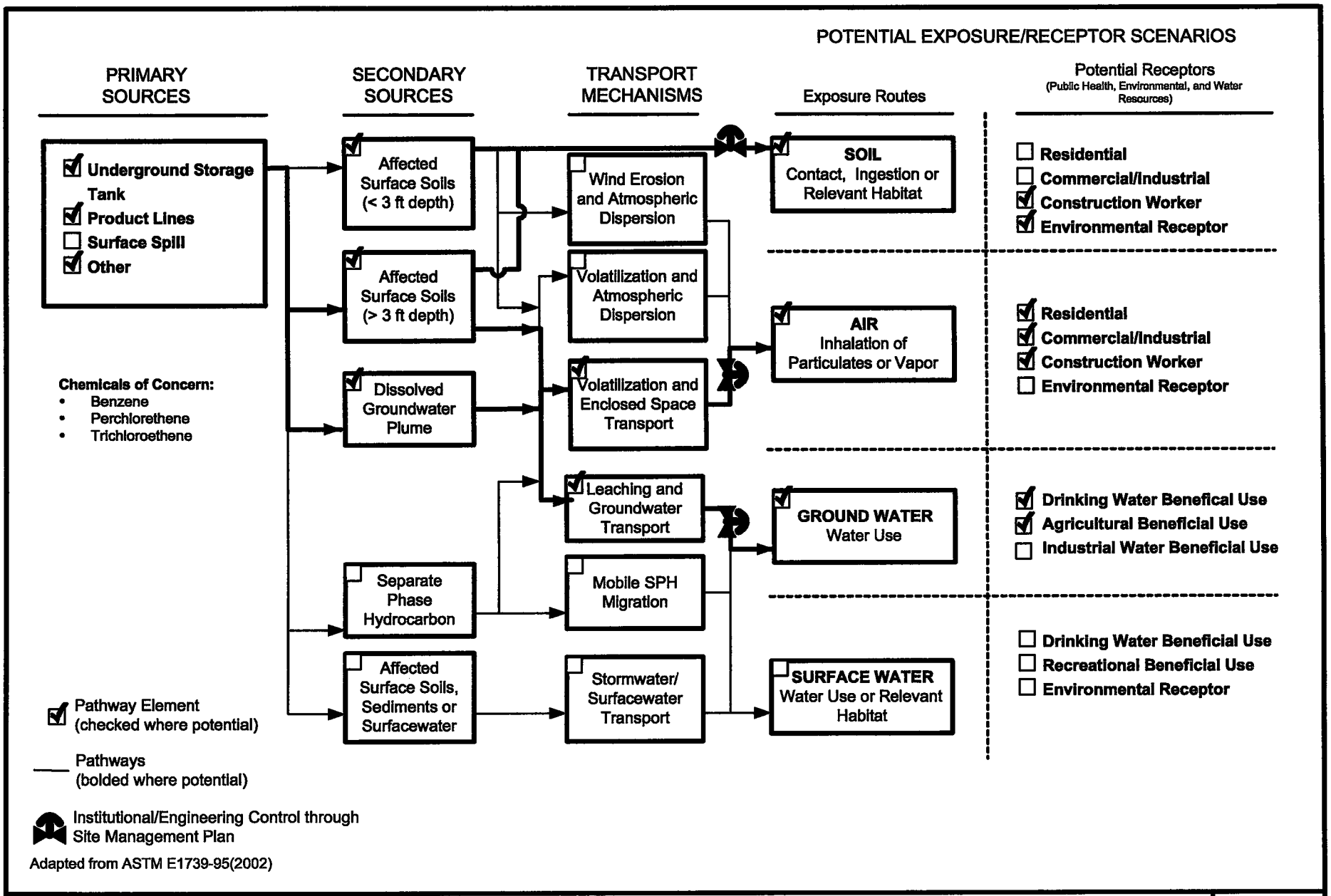




TERRADEX

Plume Stability - Slice Analysis
Chevron Service Station Station #9-6817
1705 Contra Costa Boulevard, Pleasant Hill, California

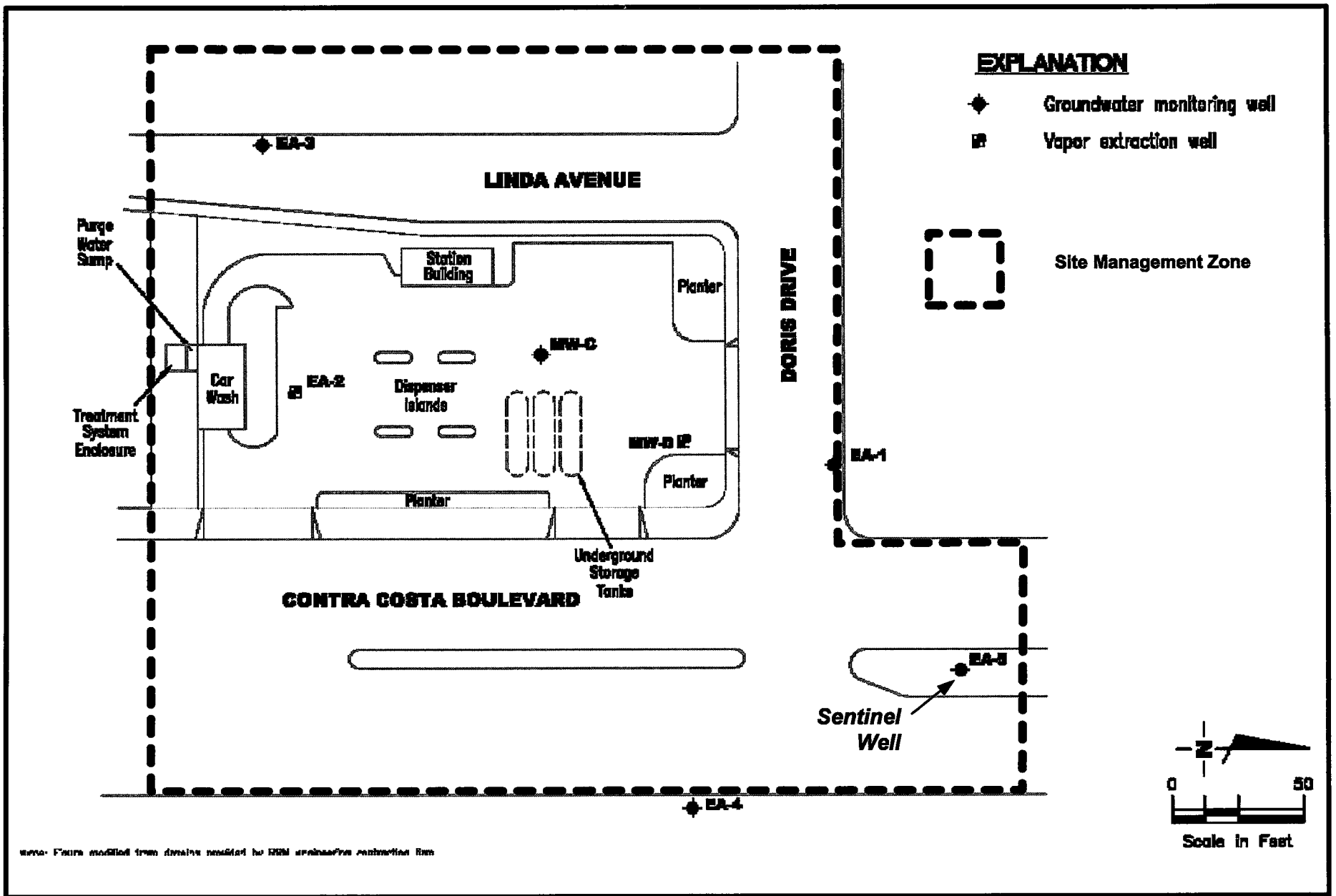
Figure
8



TERRADEX

Conceptual Site Model
Chevron Service Station Station #9-6817
1705 Contra Costa Boulevard, Pleasant Hill, California

Figure
9

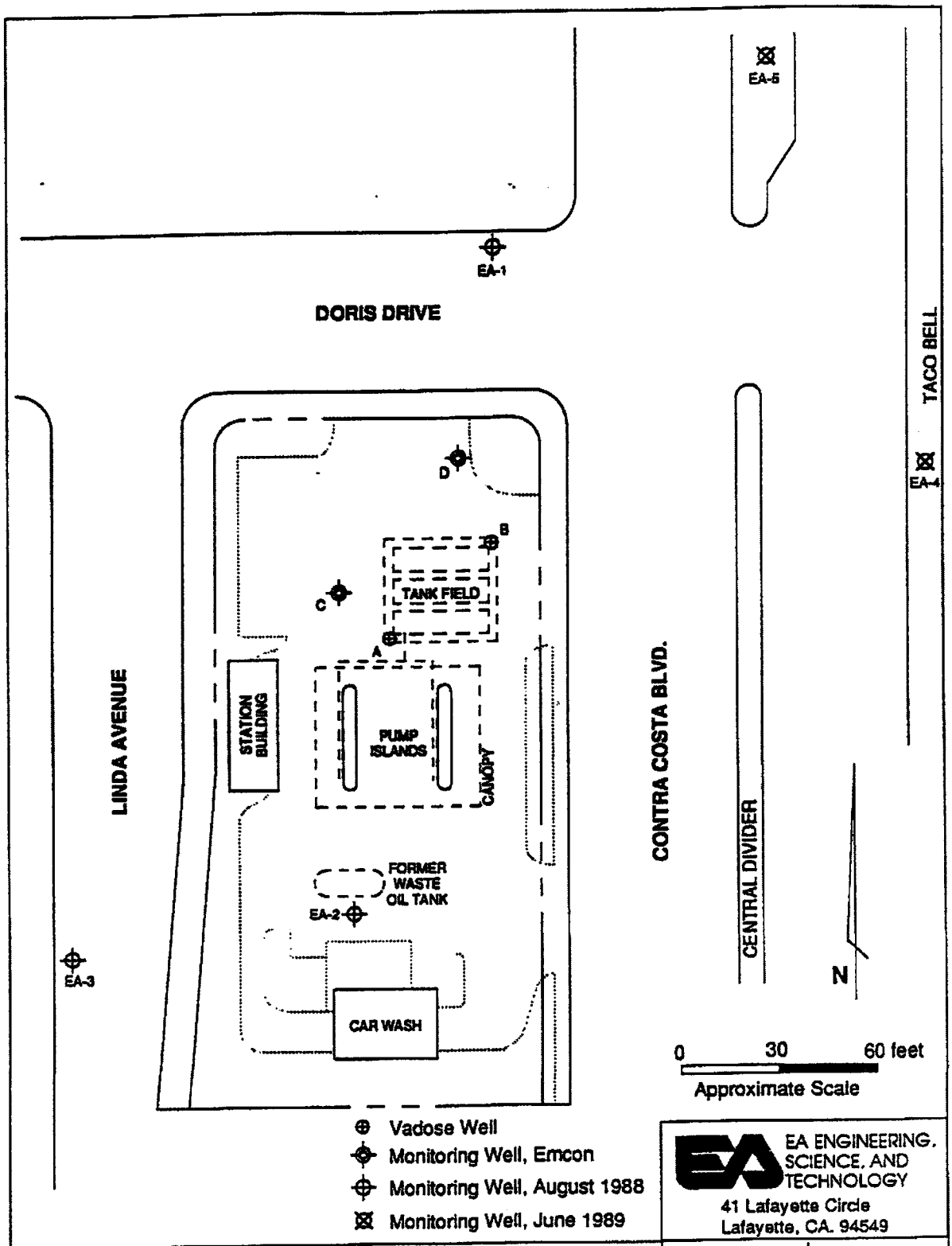


TERRADEX

Site Land Use Management Zone
Chevron Service Station Station #9-6817
1705 Contra Costa Boulevard, Pleasant Hill, California

Figure
10

Attachment A
Soil Analytical Data



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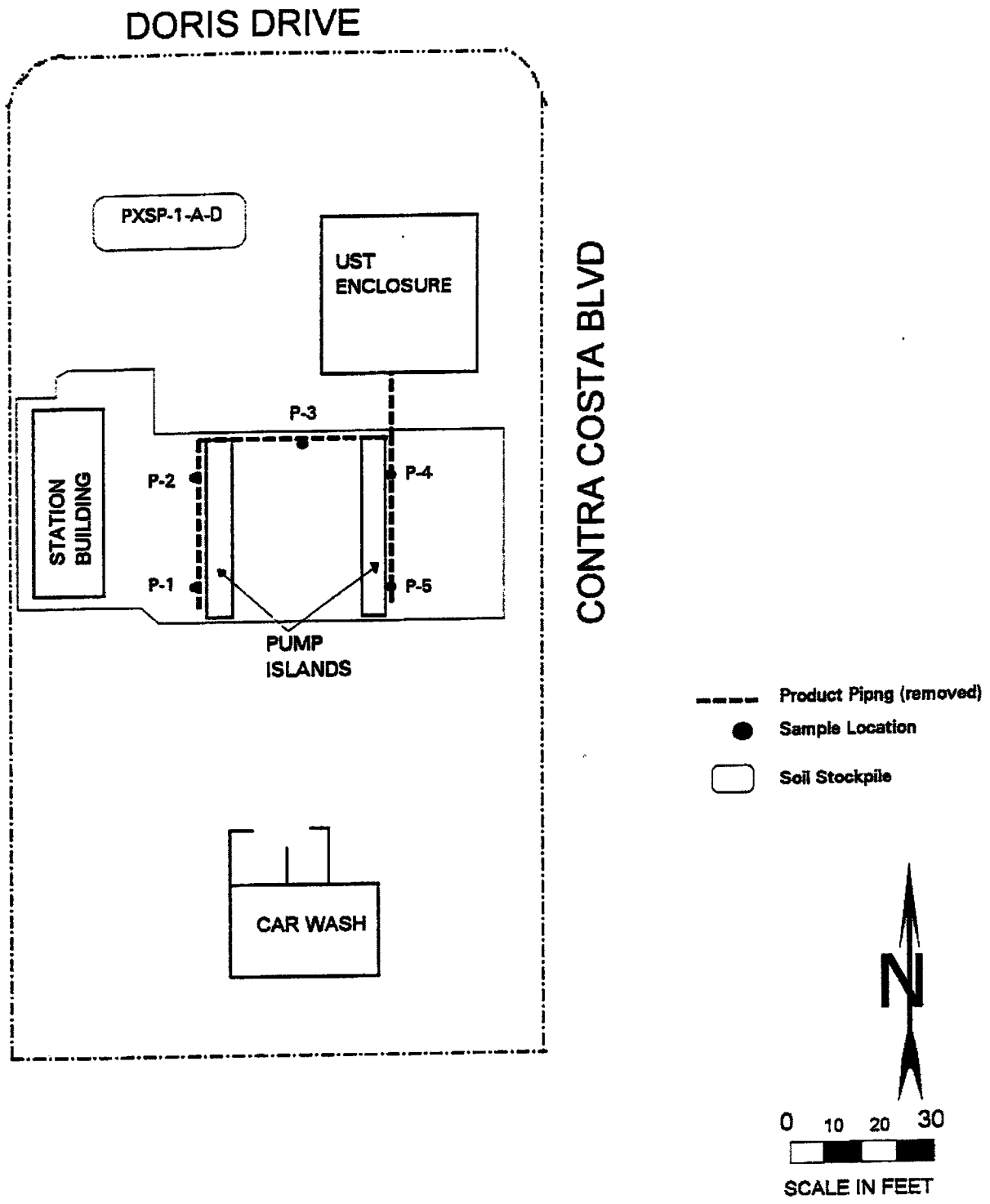
Drawn	Date
Reviewed TKW	Date 29 Aug 90

Figure 6. Locations of monitoring wells, Chevron SS 9-6817, Pleasant Hill, California, August 1988, June 1989.

TABLE 5 CONCENTRATIONS OF VOLATILE HYDROCARBONS (ug/kg) IN SOIL SAMPLES FROM CHEVRON SS 9-6817, PLEASANT HILL, CALIFORNIA, AUGUST 1988

	EA1 Depth (feet)				EA2 Depth (feet)				EA3 Depth (feet)			
Constituents	5-10	15	20-25	30	10	15	20	25	5-10	15	20-25	30
TPH	120	<1,000	<50	<50	<50	<50	<50	<50	770	130	<50	<50
Benzene	<0.2	<500	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5
Toluene	<0.2	<500	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5
Ethylbenzene	<0.2	<500	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5
Xylenes	<0.2	<500	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.5	<0.5
Vinyl chloride	<2	<1,000	<0.5	<2	<2	<2	<2	<2	<2.3	<2.5	<0.5	<0.5
t-1,2-dichloro-ethylene	<0.5	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.3	<2.5	<0.5	<0.5
Trichloroethylene	<0.5	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	86	4.9	0.6	<0.5
Tetrachloroethylene	<0.5	<500	<0.5	<0.5	6.6	64	1.1	0.8	328	122	8.0	3.2
Chloromethane	<2	<500	<0.5	<2	<2	<2	<2	<2	<2.3	<2.5	<0.5	<0.5
Methylene chloride	<0.5	<500	21.1	<0.5	<0.5	<0.5	1.1	1.7	<2.3	<2.5	<0.5	<0.5
Chloroform	<0.5	<500	<0.5	<0.5	<0.5	<0.5	1.5	11	<2.3	<2.5	<0.5	<0.5
1,2-dichloroethane	<0.5	<500	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.3	<2.5	<0.5	<0.5



Touchstone Developments
Environmental Management

SAMPLE LOCATIONS
CHEVRON SERVICE STATION # 9-6817
1705 Contra Costa Blvd
Pleasant Hill, California

FIGURE
2

PROJECT NO.	DATE	DRAWN BY:	BASE MAP:
6819-1	December 1995	AMD	BASE MAP:Chevron Blueprint

TABLE A
PRODUCT LINE REMOVAL SOIL SAMPLING SUMMARY

CHEVRON STATION 9-6817
Walnut Creek, California

PUMP ISLAND/PIPING EXCAVATION SAMPLING SUMMARY

SAMPLE ID	DEPTH (ft.)	LAB	DATE	TPH - gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylene (ppm)	Lead (ppm)
P-1	3.5	Sequoia	11/9/95	ND	ND	ND	ND	ND	7.1
P-2	3.5	Sequoia	11/9/95	7.9	0.0096	0.014	0.032	0.015	4.9
P-3	3.5	Sequoia	11/9/95	80	2.2	0.32	1.6	3.7	3.6
P-4	3.5	Sequoia	11/9/95	ND	ND	ND	ND	0.0074	2.5
P-5	3.5	Sequoia	11/9/95	ND	0.022	0.0080	0.0056	ND	ND

STOCKPILE

SAMPLE ID	LAB	DATE	TPH - gasoline (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl-benzene (ppm)	Xylene (ppm)	Lead (ppm)
PXSP-A-D	Sequoia	11/9/95	97	ND	0.11	0.89	7.6	ND

TPH-Gasoline = Total petroleum hydrocarbons calculated as gasoline
ND=Not detected at or above the laboratory detection limits
NA = Analysis not requested
ppm = parts per million

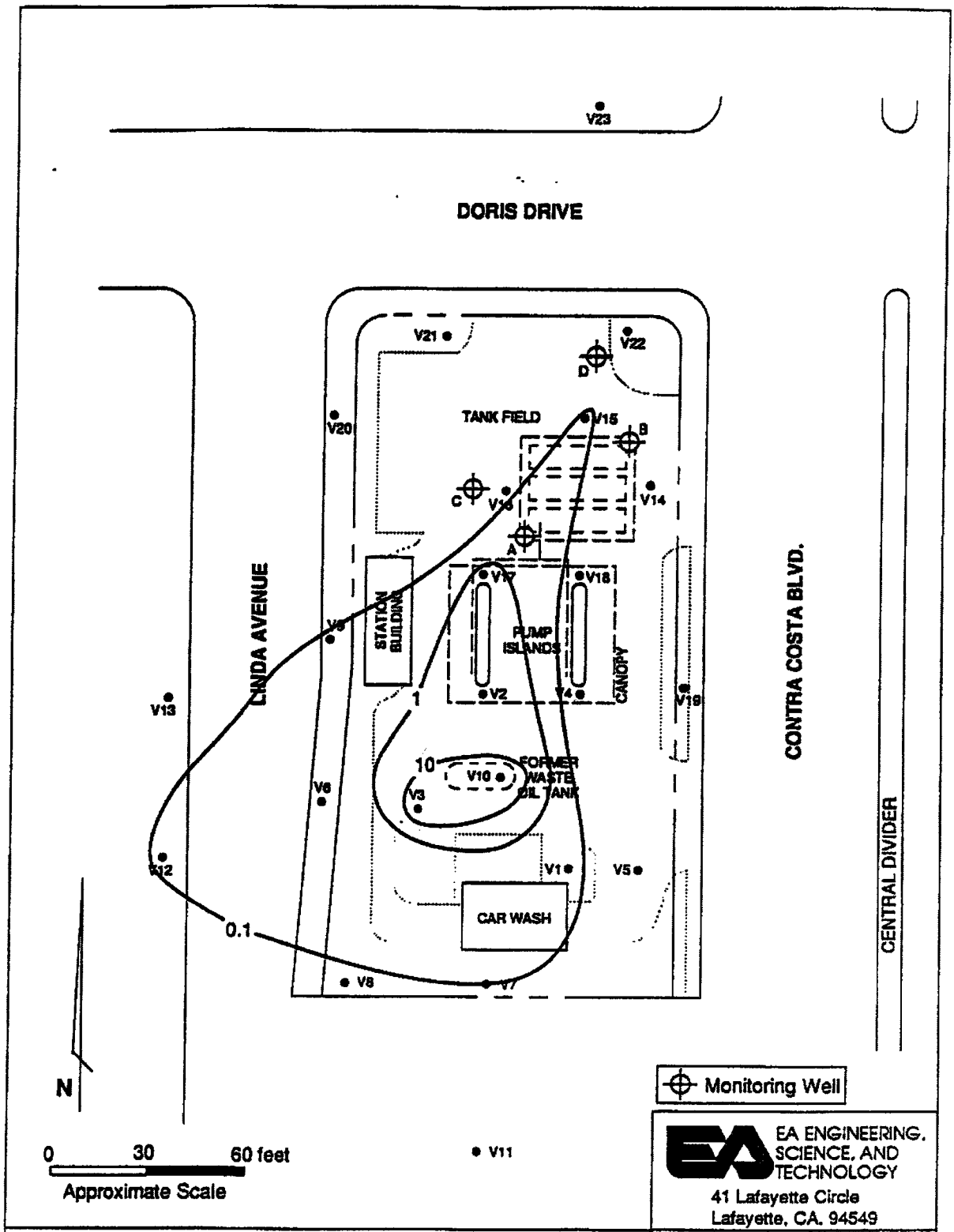


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Figure 5. Isoconcentration contours (ppm) of trichlororethene (TCE) in the shallow soil gas at Chevron SS 9-6817, Pleasant Hill, CA. May 1988.

Drawn	Date
Reviewed RLO	Date 21 Aug 90

TABLE 2 CONCENTRATIONS OF HYDROCARBON CONSTITUENTS IN SOIL VAPOR AT CHEVRON SERVICE STATION 9-6817, PLEASANT HILL, CALIFORNIA, 29 OCTOBER 1987

Sample Location	Depth (ft)	Peaks Prior to Benzene (ppm)[a]	Benzene (ppm)	Toluene (ppm)	Total Detected Hydrocarbons (ppm)[a]
MWA	1	200	20	30	330
MWB	1	570	<20	<20	900
MWC	1	<1	<1	<1	<1
MWD	1	1,500	160	300	2,200
V1/A	3	100	120	<10	250
V1/B	5	5	5	<5	10
V1/C	8	5	<10	10	10
V2	5.5	<1	<1	<1	<1
V3	3	<1	<1	<1	<1
V4	3	<1	<1	<1	<1
V5	3	<1	<1	<1	<1
V6	8	<1	<1	<1	<1
V7/A	3	50	5	10	70
V7/B	8	5	<1	<1	<10
V8/A	4	<1	<1	<1	<5
V8/B	8	<1	<1	<1	<1
V9	8	<1	<1	<1	<1
V10	5.5	<1	<1	<1	<1
V11	5.5	<1	<1	<1	<1

BLANK DATA

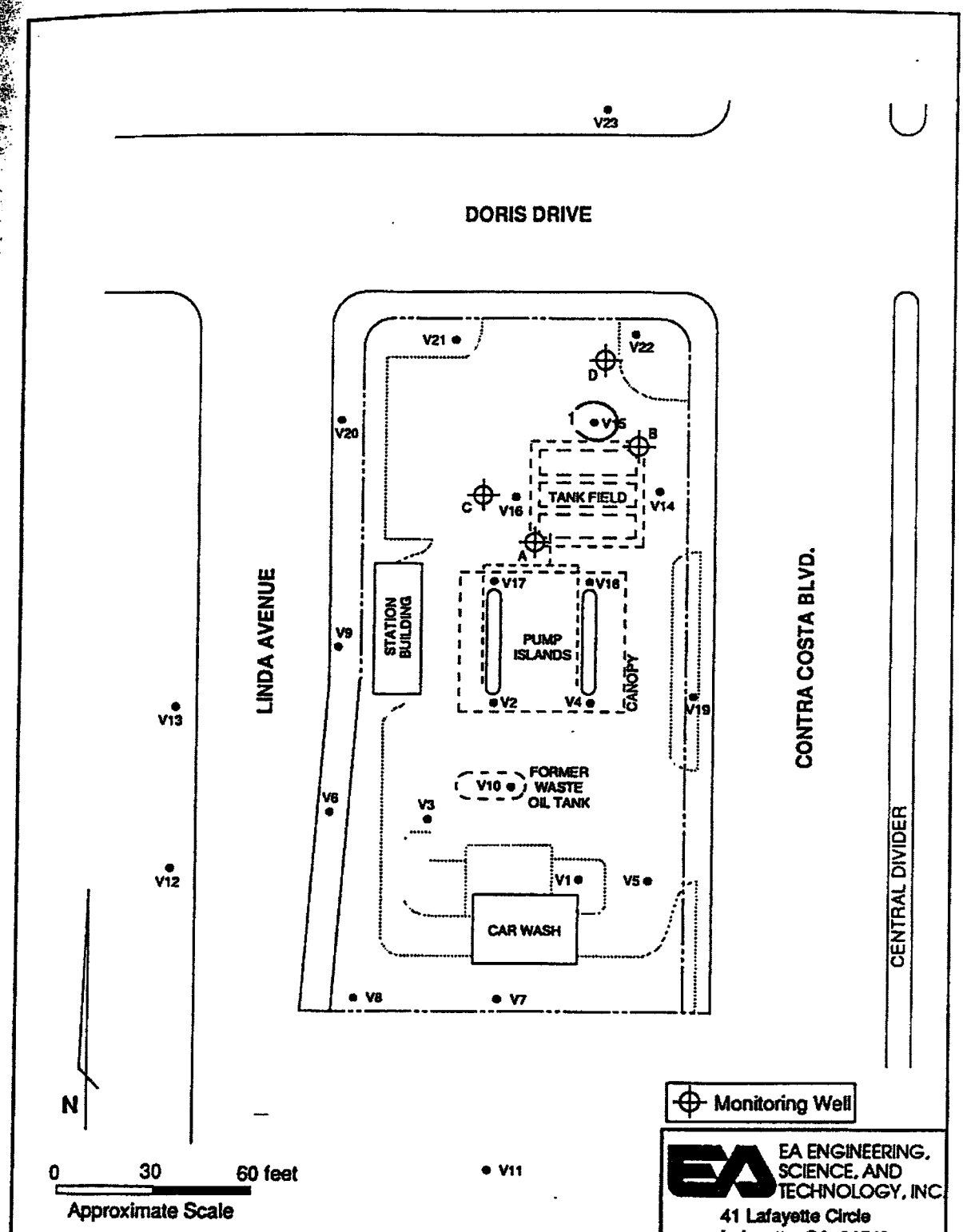
Test Time	Peaks Prior to Benzene (VS)	Benzene (ppm)	Toluene (ppm)
0912	<0.1	<0.1	<0.1

PERCENTAGE OF STANDARD RECOVERED

Test Time	Standard	
	Benzene	Toluene
0939	100	100
1153	100	100
1433	110	109

a. Based on the volt-sec:ppm response ratio for benzene (see text).

c45/96817



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41 Lafayette Circle
Lafayette, CA 94549

Figure 8. Isoconcentration contours (ppm) of benzene in the shallow soil gas at Chevron SS 9-6817, Pleasant Hill, CA. May 1988.

Drawn	Date
TRW	8 May 89
Reviewed	Date
KSK	5/9/89

TABLE 4 CONCENTRATIONS OF HALOGENATED HYDROCARBONS IN SOIL VAPOR AT CHEVRON SS 9-6817, 1705 CONTRA COSTA BLVD. PLEASANT HILL, CALIFORNIA, 3-4 MAY 1988

Sample Location	Depth (ft)	Peaks Prior to TCE (ppm)[a]	TCE (ppm)	PCE (ppm)	Total Detected Halogenated Hydrocarbons (ppm)[a]
V1	7.5	1.2	0.2	2.8	4.2
V2/A	3	12	0.7	5.9	19
V2/B	8	0.5	0.4	1.5	2.4
V3/A	3	1.6	14.0	21*	37
V3/B	5.5	<0.1	1.7	11	13
V3/C	8	0.5	13	130*	140
V4/A	3	<0.2	<0.1	0.4	0.6
V4/B	8	<0.2	<0.1	0.1	0.3
V5/A	3	<0.1	<0.1	0.9	1.0
V5/B	8	<0.1	<0.1	0.2	0.2
V6/A	3	<0.1	0.5	4.2	4.7
V6/B	5.5	0.1	0.8	10	11
V6/C	8	0.2	0.8	10	11
V7	7.5	0.5*	0.1*	1.8*	1
V8/A	5.5	0.4	<0.1	0.2	0.6
V8/B	8	0.7	<0.1	0.9	1.6
V9	8	<0.1	0.2	1.7*	2.0
V10	8	0.5	20	470**	490
V11	8	<0.1	<0.1	0.5	0.5
V12	8	<0.1*	0.1*	0.4*	0.5
V13	7.5	<0.1	<0.1	0.2	0.2
V14	8	<0.1	<0.1	0.6	0.6
V15	7.5	<0.1	0.5	2.1	2.6
V16	8	0.3	<0.1	0.4	0.7
V17	2.5	1.2*	0.2*	0.9*	2.3
V18	2.5	<0.1	<0.1	0.4	0.4
V19	7.5	0.1*	0.5*	1.3*	<0.1
V20	8	<0.1	<0.1	<0.1	<0.1
V21/A	5.5	<0.1	<0.1	<0.1	<0.1
V21/B	7.5	<0.1	<0.1	<0.1	<0.1
V22/A	5.5	<0.1	<0.1	<0.1	<0.1
V22/B	7.5	<0.1	<0.1	<0.1	0.7
V23	8	<0.1	<0.1	<0.1	<0.1

a.
* PCE value estimated from FID detector response.
** Unknown halogenated hydrocarbon eluted with PCE.

Attachment B
Groundwater Analytical Data

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-C									
12/01/87	106.48	--	--	620	13	3.0	2.0	3.0	--
09/07/88	106.48	96.23	10.25	510	6.4	<0.5	<0.5	<0.5	--
01/03/89	106.48	97.18	9.30	--	37	19	<1.0	<0.5	--
04/06/89	106.48	98.00	8.48	--	--	--	--	--	--
05/05/89	106.48	97.95	8.53	--	--	--	--	--	--
06/12/89	106.48	97.24	9.24	480	5.9	<0.5	<0.5	<0.5	--
06/20/89	106.48	97.16	9.32	--	--	--	--	--	--
09/19/89	106.48	97.05	9.43	490	0.9	<0.5	1.4	<0.5	--
12/28/89	106.48	96.16	10.32	420	0.7	0.8	<0.5	<0.5	--
06/06/90	106.48	96.83	9.65	430	<0.5	<0.5	1.2	<0.5	--
09/11/90	106.48	94.96	11.52	300	<0.5	<0.5	1.2	<0.5	--
12/19/90	106.48	95.58	10.90	360	<0.5	<0.5	<0.5	0.7	--
03/31/91	106.48	97.81	8.67	390	2.1	<0.5	12	2.9	--
06/18/91	106.48	95.99	10.49	290	<0.5	<0.5	<0.5	<0.5	--
08/29/91	106.48	94.86	11.62	310	<0.5	<0.5	<0.5	<0.5	--
11/04/91	106.48	95.04	11.44	190	1.2	<0.5	<0.5	<0.5	--
01/29/92	106.48	95.11	11.37	160	<0.5	<0.5	<0.5	<0.5	--
05/12/92	106.48	96.08	10.40	310	0.5	<0.5	0.5	<0.5	--
08/18/92	106.48	94.96	11.52	220	<0.5	<0.5	<0.5	<0.5	--
12/31/92	106.48	95.89	10.59	280	<0.5	<0.5	<0.5	<0.5	--
03/25/93	106.48	--	--	--	--	--	--	--	--
06/16/93	106.48	96.66	9.82	<50	<0.5	<0.5	<0.5	<0.5	--
10/06/93	106.48	95.28	11.20	<50	0.5	0.6	<0.5	<0.5	--
02/08/94	106.48	96.66	9.82	64	<0.5	<0.5	<0.5	<0.5	--
06/15/94	106.48	95.97	10.51	<50	0.5	<0.5	<0.5	1.5	--
08/24/94	106.48	95.48	11.00	<50	<0.5	<0.5	<0.5	<0.5	--
12/15/94	106.48	96.67	9.81	<50	<0.5	<0.5	<0.5	<0.5	--
02/27/95[1]	106.48	97.33	9.15	500	<0.5	<0.5	<0.5	<0.5	--
05/18/95	106.48	97.70	8.78	350	<0.5	<0.5	<0.5	<0.5	--
08/24/95	106.48	95.95	10.53	<50	<0.5	<0.5	<0.5	<0.5	--
11/30/95	106.48	--	--	--	--	--	--	--	--
02/19/96	106.48	98.58	7.90	200	0.9	<0.5	<0.5	<0.5	--
05/16/96	106.48	97.43	9.05	170	1.5	1.1	2.2	7.3	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-C (cont)									
08/27/96	106.48	96.34	10.14	210	<0.5	<0.5	<0.5	<0.5	--
11/13/96	106.48	95.93	10.55	320[2]	<0.5	<0.5	<0.5	<0.5	--[3]
02/20/97	106.48	98.24	8.24	330	<0.5	<0.5	<0.5	<0.5	15.0
05/16/97	106.48	97.03	9.45	190	<0.5	<0.5	<0.5	<0.5	17.0
12/02/97	106.48	97.16	9.32	170[2]	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/98	106.48	98.29	8.19	210[2]	<0.5	<0.5	<0.5	<0.5	10.0
06/17/99	106.48	97.33	9.15	160	<0.5	<0.5	<0.5	<0.5	31.0
05/22/00	106.48	97.53	8.95	150[5]	0.57	<0.50	<0.50	<0.50	<2.5
05/04/01	106.48	97.01	9.47	293[7]	<0.500	<0.500	<0.500	<0.500	6.42/5.6[6]
05/03/02	106.48	97.03	9.45	410	<0.50	<0.50	<0.50	<1.5	<10/6[6]
05/12/03[10]	106.48	97.92	8.56	320	<0.5	<0.5	<0.5	<1	7
05/14/04[11]	**106.48**	**97.22**	**9.26**	**340**	**<0.5**	**<0.5**	**0.6**	**1**	**7**
MW-D									
12/01/87	105.65	--	--	48,000	6,600	5,200	73	2,900	--
09/07/88	105.65	95.90	9.75	24,000	12,000	2,700	600	2,000	--
01/03/89	105.65	96.89	8.76	60,000	8,000	9,100	2,500	12,000	--
04/06/89	105.65	97.65	8.00	--	--	--	--	--	--
05/05/89	105.65	97.37	8.28	--	--	--	--	--	--
06/12/89	105.65	96.98	8.67	44,000	12,000	1,800	920	5,500	--
06/20/89	105.65	96.92	8.73	--	--	--	--	--	--
09/19/89	105.65	95.77	9.88	51,000	6,200	3,000	850	3,400	--
12/28/89	105.65	95.90	9.75	33,000	9,300	1,800	960	2,700	--
06/06/90	105.65	96.59	9.06	60,000	7,100	2,700	1,400	5,800	--
09/11/90	105.65	95.75	9.90	68,000	7,600	3,700	1,600	6,700	--
12/19/90	105.65	94.95	10.70	110,000	6,300	7,100	2,200	9,000	--
03/31/91	105.65	97.65	8.00	--	--	--	--	--	--
06/18/91	105.65	95.85	9.80	--	--	--	--	--	--
08/29/91	105.65	94.72	10.93	--	--	--	--	--	--
11/04/91	105.65	--	--	--	--	--	--	--	--
01/29/92	105.65	95.02	10.63	41,000	3,100	1,700	2,200	6,500	--
05/12/92	105.65	94.92	10.73	7,800	2,200	98	170	170	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
MW-D (cont)									
08/18/92	105.65	--	--	--	--	--	--	--	--
12/31/92	105.65	97.82	7.83	--	--	--	--	--	--
03/25/93	105.65	96.79	8.86	13,000	3,000	670	800	2,500	--
06/16/93	--	--	--	--	--	--	--	--	--
10/06/93	105.65	--	--	--	--	--	--	--	--
02/08/94	105.65	--	--	--	--	--	--	--	--
06/15/94	105.65	--	--	--	--	--	--	--	--
08/24/94	105.65	--	--	--	--	--	--	--	--
12/15/94	105.65	--	--	--	--	--	--	--	--
02/27/95	105.65	--	--	--	--	--	--	--	--
05/18/95	105.65	--	--	--	--	--	--	--	--
08/24/95	105.65	95.49	10.16	10,000	930	31	420	220	--
11/30/95	105.65	--	--	--	--	--	--	--	--
02/19/96	105.65	--	--	--	--	--	--	--	--
05/16/96	105.65	--	--	--	--	--	--	--	--
08/27/96	105.65	--	--	--	--	--	--	--	--
06/17/99	105.65	97.45	8.20	--	--	--	--	--	--
05/22/00	105.65	97.80	7.85	--	--	--	--	--	--
05/04/01	105.65	97.11	8.54	--	--	--	--	--	--
05/03/02[8]	105.65	96.60	9.05	--	--	--	--	--	--
05/12/03[9,10]	105.65	97.78	7.87	180	3	<0.5	1	<1	<0.5
05/14/04[11]	**105.65**	**97.67**	**7.98**	**2,200**	**12**	**1**	**4**	**2**	**<0.5**
EA-1									
09/07/88	105.61	95.72	9.89	230	7.7	7.6	6.4	23	--
01/03/89	105.61	95.81	9.80	<50	2.6	<0.5	1.0	<0.5	--
04/06/89	105.61	97.37	8.24	--	--	--	--	--	--
05/05/89	105.61	97.08	8.53	--	--	--	--	--	--
06/12/89	105.61	96.66	8.95	<250	<0.5	<0.5	<0.5	<0.5	--
09/19/89	105.61	96.42	9.19	<250	5.5	<0.5	4.1	<0.5	--
12/28/89	105.61	96.11	9.50	<250	2.5	<0.5	2.0	<0.5	--
06/06/90	105.61	96.33	9.28	70	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6817

1705 Contra Costa Boulevard

Pleasant Hill, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
EA-1 (cont)									
09/11/90	105.61	95.46	10.15	80	0.9	<0.5	<0.5	0.6	--
12/19/90	105.61	95.15	10.46	50	<0.5	<0.5	<0.5	<0.5	--
03/31/91	105.61	97.31	8.30	100	0.6	<0.5	<0.5	0.5	--
06/18/91	105.61	95.67	9.94	150	1.1	<0.5	<0.5	<0.5	--
08/29/91	105.61	94.66	10.95	69	<0.5	<0.5	<0.5	<0.5	--
11/04/91	105.61	94.69	10.92	60	<0.5	<0.5	<0.5	<0.5	--
01/29/92	105.61	94.88	10.73	590	<0.5	<0.5	<0.5	<0.5	--
05/12/92	105.61	95.79	9.82	180	<0.5	<0.5	<0.5	<0.5	--
08/18/92	105.61	94.58	11.03	200	0.5	<0.5	<0.5	1.1	--
12/31/92	105.61	95.41	10.20	110	<0.5	<0.5	<0.5	<0.5	--
03/25/93	105.61	97.25	8.36	140	0.8	<0.5	<0.5	<1.5	--
06/16/93	105.61	96.30	9.31	<50	2.0	<0.5	<0.5	<0.5	--
10/06/93	105.61	95.04	10.57	<50	<0.5	<0.5	<0.5	0.8	--
02/08/94	105.61	96.13	9.48	<50	<0.5	<0.5	<0.5	<0.5	--
06/15/94	105.61	98.65	6.96	<50	<0.5	<0.5	<0.5	<0.5	--
08/24/94	105.61	95.16	10.45	<50	0.6	<0.5	<0.5	<0.5	--
12/15/94	105.61	96.21	9.40	<50	0.6	<0.5	<0.5	<0.5	--
02/27/95	105.61	97.98	7.63	150	<0.5	<0.5	<0.5	<0.5	--
05/18/95	105.61	97.73	7.88	90	<0.5	<0.5	<0.5	<0.5	--
08/24/95	105.61	95.77	9.84	<50	<0.5	<0.5	<0.5	<0.5	--
11/30/95	105.61	95.29	10.32	<0.5	0.55	<0.5	<0.5	<0.5	--
02/19/96	105.61	98.03	7.58	110	0.93	<0.5	<0.5	<0.5	--
05/16/96	105.61	97.19	8.42	<50	2.4	1.0	1.1	5.7	--
08/27/96	105.61	95.97	9.64	<50	1.5	<0.5	<0.5	<0.5	--
11/13/96	105.61	95.56	10.05	<50	<0.5	<0.5	<0.5	<0.5	--[3]
02/20/97	105.61	98.51	7.10	<50	<0.5	<0.5	<0.5	<0.5	39.0
05/16/97	105.61	96.71	8.90	<50	<0.5	<0.5	<0.5	<0.5	19.0
12/02/97	105.61	96.73	8.88	<50	<0.5	<0.5	<0.5	<0.5	18.0
06/17/99	105.61	97.01	8.60	--	--	--	--	--	--
05/22/00	105.61	97.00	8.61	--	--	--	--	--	--
05/04/01	105.61	96.51	9.10	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6817

1705 Contra Costa Boulevard

Pleasant Hill, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
EA-1 (cont)									
05/03/02	105.61	96.52	9.09	--	--	--	--	--	--
05/12/03[10]	105.61	97.39	8.22	77	<0.5	<0.5	<0.5	<1	250
05/14/04	**105.61**	**96.67**	**8.94**	--	--	--	--	--	--
EA-2									
09/07/88	107.33	96.68	10.65	<0.5	5.3	<0.5	<0.5	58	--
01/03/89	107.33	97.87	9.46	<0.5	<0.5	<0.5	<0.5	2,900	--
04/06/89	107.33	98.51	8.82	--	--	--	--	--	--
05/05/89	107.33	98.37	8.96	--	--	--	--	--	--
06/12/89	107.33	98.00	9.33	<0.5	<0.5	<0.5	<0.5	848	--
06/20/89	107.33	97.89	9.44	--	--	--	--	--	--
09/19/89	107.33	97.85	9.48	<0.5	<0.5	<0.5	<0.5	1,600	--
12/28/89	107.33	96.59	10.74	<250	<0.5	<0.5	<0.5	<0.5	--
06/06/90	107.33	97.38	9.95	130	<0.5	<0.5	<0.5	<0.5	--
09/11/90	107.33	96.56	10.77	780	<0.5	<0.5	<0.5	<0.5	--
12/19/90	107.33	96.04	11.29	370	<0.5	<0.5	<0.5	<0.5	--
03/31/91	107.33	--	--	--	--	--	--	--	--
06/18/91	107.33	96.31	11.02	2,000	0.7	1.1	<0.5	0.9	--
08/29/91	107.33	87.39	19.94	--	--	--	--	--	--
11/04/91	107.33	--	--	--	--	--	--	--	--
01/29/92	107.33	--	--	--	--	--	--	--	--
05/12/92	107.33	--	--	1,300	<0.5	<0.5	<0.5	<0.5	--
08/18/92	107.33	95.39	11.94	780	<0.5	<0.5	<0.5	<0.5	--
12/31/92	107.33	--	--	--	--	--	--	--	--
03/25/93	107.33	97.43	9.90	--	--	--	--	--	--
06/16/93	107.33	97.35	9.98	<50	0.6	<0.5	<0.5	<0.5	--
10/06/93	107.33	--	--	--	--	--	--	--	--
02/08/94	107.33	--	--	--	--	--	--	--	--
06/15/94	107.33	--	--	--	--	--	--	--	--
08/24/94	107.33	--	--	--	--	--	--	--	--
12/15/94	107.33	--	--	--	--	--	--	--	--
02/27/95	107.33	--	--	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
EA-2 (cont)									
05/18/95	107.33	--	--	--	--	--	--	--	--
08/24/95	107.33	93.27	14.06	<50	2.1	<0.5	<0.5	<0.5	--
11/30/95	107.33	--	--	--	--	--	--	--	--
02/19/96	107.33	--	--	--	--	--	--	--	--
05/16/96	107.33	--	--	--	--	--	--	--	--
08/27/96	107.33	--	--	--	--	--	--	--	--
06/17/99	107.33	97.68	9.65	--	--	--	--	--	--
05/22/00	107.33	97.71	9.62	--	--	--	--	--	--
05/04/01	107.33	INACCESSIBLE - CONNECTED TO REMEDIATION SYSTEM					--	--	--
05/03/02	107.33	INACCESSIBLE - CONNECTED TO REMEDIATION SYSTEM					--	--	--
05/12/03[10]	107.33	98.39	8.94	3,300	<2	<2	<2	<4	3
05/14/04[12]	**107.33**	**97.64**	**9.69**	--	--	--	--	--	--
EA-3									
09/07/88	104.88	96.89	7.99	340	<0.5	15	<0.5	<0.5	--
01/03/89	104.88	98.12	6.76	<0.5	<0.5	<0.5	<0.5	<0.5	--
04/06/89	104.88	98.76	6.12	--	--	--	--	--	--
05/05/89	104.88	98.61	6.27	--	--	--	--	--	--
06/12/89	104.88	98.24	6.64	480	<0.5	<0.5	<0.5	<0.5	--
06/20/89	104.88	98.13	6.75	--	--	--	--	--	--
09/19/89	104.88	98.01	6.87	700	<0.5	<0.5	<0.5	<0.5	--
12/28/89	104.88	96.82	8.06	840	0.5	<0.5	<0.5	<0.5	--
06/06/90	104.88	97.67	7.21	1,000	<0.5	<0.5	1.3	7.0	--
09/11/90	104.88	96.79	8.09	1,300	<0.5	<0.5	<0.5	<0.5	--
12/19/90	104.88	96.33	8.55	1,200	<0.5	<0.5	<0.5	<0.5	--
03/31/91	104.88	98.62	6.26	1,200	<0.5	<0.5	<0.5	<0.5	--
06/18/91	104.88	96.53	8.35	1,400	<0.5	<0.5	<0.5	<0.5	--
08/29/91	104.88	95.42	9.46	2,100	<0.5	<0.5	<0.5	<0.5	--
11/04/91	104.88	95.80	9.08	600	<0.5	<0.5	<0.5	<0.5	--
01/29/92	104.88	95.71	9.17	530	<0.5	<0.5	<0.5	<0.5	--
05/12/92	104.88	96.76	8.12	760	<0.5	<0.5	<0.5	<0.5	--
08/18/92	104.88	95.65	9.23	310	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6817

1705 Contra Costa Boulevard

Pleasant Hill, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
EA-3 (cont)									
12/31/92	104.88	--	--	--	--	--	--	--	--
03/25/93	104.88	98.52	6.36	360	1.1	<0.5	<0.5	<1.5	--
06/16/93	104.88	97.30	7.58	<50	<0.5	<0.5	<0.5	<0.5	--
10/06/93	104.88	--	--	--	--	--	--	--	--
02/08/94	104.88	97.50	7.38	<50	<0.5	<0.5	<0.5	<0.5	--
06/15/94	104.88	--	--	--	--	--	--	--	--
08/24/94	104.88	96.05	8.83	<50	<0.5	<0.5	<0.5	<0.5	--
12/15/94	104.88	97.50	7.38	<50	<0.5	<0.5	<0.5	<0.5	--
02/27/95	104.88	97.94	6.94	200	<0.5	<0.5	<0.5	<0.5	--
05/18/95	104.88	98.35	6.53	170	0.5	<0.5	<0.5	<0.5	--
08/24/95	104.88	96.45	8.43	<50	<0.5	<0.5	<0.5	<0.5	--
11/30/95	104.88	96.09	8.79	100	<0.5	<0.5	<0.5	<0.5	--
02/19/96	104.88	99.30	5.58	130	<0.5	<0.5	<0.5	<0.5	--
05/16/96	104.88	98.08	6.80	130	0.94	0.95	0.73	2.6	--
08/27/96	104.88	96.96	7.92	140	<0.5	<0.5	<0.5	<0.5	--
11/13/96	104.88	96.66	8.22	240[2]	<0.5	<0.5	<0.5	<0.5	--[3]
02/20/97	104.88	98.86	6.02	690	<0.5	<0.5	<0.5	<0.5	18.0
05/16/97	104.88	97.77	7.11	140	<0.5	<0.5	<0.5	<0.5	3.8
12/02/97	104.88	98.04	6.84	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/98	104.88	99.01	5.87	140[2]	<0.5	<0.5	<0.5	<0.5	7.8
06/17/99	104.88	97.93	6.95	92	<0.5	<0.5	<0.5	<0.5	22.0
05/22/00	104.88	98.18	6.70	<50	<0.50	<0.50	<0.50	<0.50	9.0
05/04/01	104.88	97.68	7.20	1,010[7]	1.64	0.835	<0.500	<0.500	29.7/30[6]
05/03/02	104.88	97.69	7.19	1,600	<0.50	<0.50	<0.50	<1.5	<25/12[6]
05/12/03[10]	104.88	98.63	6.25	640	<0.5	<0.5	<0.5	<1	5
05/14/04[11]	**104.88**	**97.90**	**6.98**	**670**	**<0.5**	**<0.5**	**<0.5**	**<1**	**3**
EA-4									
06/12/89	106.34	96.38	9.96	1,100	<0.5	0.6	43	66	--
06/20/89	106.34	96.29	10.05	--	--	--	--	--	--
09/19/89	106.34	96.01	10.33	750	<0.5	<0.5	12	5.2	--
12/28/89	106.34	95.43	10.91	<250	<0.5	<0.5	2.5	0.8	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6817

1705 Contra Costa Boulevard

Pleasant Hill, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
EA-4 (cont)									
06/06/90	106.34	96.02	10.32	160	<0.5	<0.5	5.5	3.4	--
09/11/90	106.34	95.14	11.20	220	<0.5	<0.5	6.6	7.4	--
12/19/90	106.34	94.85	11.49	82	<0.5	<0.5	0.5	1.0	--
03/31/91	106.34	97.04	9.30	320	<0.5	<0.5	9.0	2.0	--
06/18/91	106.34	95.42	10.92	70	--	<0.5	1.4	1.8	--
08/29/91	106.34	94.44	11.90	61	<0.5	<0.5	<0.5	<0.5	--
11/04/91	106.34	94.41	11.93	<50	<0.5	<0.5	<0.5	<0.5	--
01/29/92	106.34	94.76	11.58	<50	<0.5	<0.5	<0.5	<0.5	--
05/12/92	106.34	--	--	--	--	--	--	--	--
08/18/92	106.34	--	--	--	--	--	--	--	--
12/31/92	106.34	95.46	10.88	160	<0.5	<0.5	7.5	1.2	--
03/25/93	106.34	--	--	--	--	--	--	--	--
06/16/93	106.34	96.11	10.23	220	<0.5	<0.5	1.0	<0.5	--
10/06/93	106.34	95.92	10.42	1,000	<0.5	<0.5	11	2.0	--
02/08/94	106.34	95.96	10.38	650	<0.5	0.8	1.0	<0.5	--
06/15/94	106.34	95.71	10.63	160	<0.5	<0.5	<0.5	<0.5	--
08/24/94	106.34	94.97	11.37	130	<0.5	<0.5	<0.5	<0.5	--
12/15/94	106.34	95.92	10.42	<50	<0.5	<0.5	<0.5	<0.5	--
02/27/95	106.34	96.98	9.36	130	<0.5	<0.5	<0.5	<0.5	--
05/18/95	106.34	97.25	9.09	240	<0.5	<0.5	<0.5	<0.5	--
08/24/95	106.34	95.60	10.74	170	<0.5	<0.5	<0.5	<0.5	--
11/30/95	106.34	95.11	11.23	88	<0.5	<0.5	<0.5	<0.5	--
02/19/96	106.34	98.12	8.22	110	<0.5	<0.5	<0.5	<0.5	--
05/16/96	106.34	97.29	9.05	100	0.6	0.98	1.2	6.2	--
08/27/96	106.34	95.73	10.61	220[2]	<0.5	<0.5	<0.5	<0.5	--
11/13/96	106.34	95.29	11.05	65[2]	<0.5	<0.5	<0.5	<0.5	<2.5
02/20/97	106.34	97.93	8.41	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/16/97	106.34	96.74	9.60	180[4]	<0.5	<0.5	<0.5	<0.5	<2.5
12/02/97	106.34	96.31	10.03	120[2]	<0.5	<0.5	<0.5	<0.5	<2.5
06/17/99	106.34	96.74	9.60	--	--	--	--	--	--
05/22/00	106.34	96.80	9.54	--	--	--	--	--	--
05/04/01	106.34	96.27	10.07	--	--	--	--	--	--

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
EA-4 (cont)									
05/03/02	106.34	96.33	10.01	--	--	--	--	--	--
05/12/03[10]	106.34	97.20	9.14	<50	<0.5	<0.5	<0.5	<1	<0.5
05/14/04	**106.34**	**96.43**	**9.91**	--	--	--	--	--	--
EA-5									
06/12/89	107.93	96.07	11.86	<250	<0.5	<0.5	<0.5	<0.5	--
06/20/89	107.93	96.06	11.87	--	--	--	--	--	--
09/19/89	107.93	95.75	12.18	<250	<0.5	<0.5	<0.5	<0.5	--
12/28/89	107.93	95.21	12.72	<250	<0.5	0.8	<0.5	0.5	--
06/06/90	107.93	95.80	12.13	<50	<0.5	<0.5	<0.5	1.0	--
09/11/90	107.93	94.93	13.00	<50	<0.5	<0.5	<0.5	0.8	--
12/19/90	107.93	--	--	--	--	--	--	--	--
03/31/91	107.93	96.79	11.14	<50	<0.5	<0.5	<0.5	<0.5	--
06/18/91	107.93	95.27	12.66	<50	1.4	0.6	0.9	3.2	--
08/29/91	107.93	94.34	13.59	<50	<0.5	<0.5	<0.5	<0.5	--
11/04/91	107.93	94.29	13.64	<50	<0.5	<0.5	<0.5	1.0	--
01/29/92	107.93	94.59	13.34	<50	<0.5	<0.5	<0.5	<0.5	--
05/12/92	107.93	95.39	12.54	72	<0.5	<0.5	<0.5	<0.5	--
08/18/92	107.93	94.15	13.78	70	<0.5	<0.5	<0.5	<0.5	--
12/31/92	107.93	95.08	12.85	<50	<0.5	<0.5	<0.5	<0.5	--
03/25/93	107.93	96.98	10.95	54	0.8	<0.5	<0.5	<1.5	--
06/16/93	107.93	95.93	12.00	<50	<0.5	<0.5	<0.5	<0.5	--
10/06/93	107.93	94.93	13.00	<50	<0.5	<0.5	<0.5	<0.5	--
02/08/94	107.93	95.22	12.71	<50	<0.5	<0.5	<0.5	<0.5	--
06/15/94	107.93	95.29	12.64	<50	<0.5	<0.5	<0.5	0.6	--
08/24/94	107.93	94.89	13.04	<50	<0.5	<0.5	<0.5	<0.5	--
12/15/94	107.93	95.25	12.68	<50	<0.5	<0.5	<0.5	<0.5	--
02/27/95	107.93	96.84	11.09	<50	<0.5	<0.5	<0.5	<0.5	--
05/18/95	107.93	96.94	10.99	<50	<0.5	<0.5	<0.5	<0.5	--
08/24/95	107.93	95.82	12.11	<50	<0.5	<0.5	<0.5	<0.5	--
11/30/95	107.93	95.03	12.90	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/19/96	107.93	97.82	10.11	<0.5	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6817

1705 Contra Costa Boulevard

Pleasant Hill, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
EA-5 (cont)									
05/16/96	107.93	97.11	10.82	<50	0.76	1.2	1.8	9.8	--
08/27/96	107.93	95.57	12.36	<50	<0.5	<0.5	<0.5	<0.5	--
11/13/96	107.93	95.15	12.78	<50	<0.5	<0.5	<0.5	<0.5	--[3]
02/20/97	107.93	97.54	10.39	<50	<0.5	<0.5	<0.5	<0.5	82.0
05/16/97	107.93	96.27	11.66	<50	<0.5	<0.5	<0.5	<0.5	78.0
12/02/97	107.93	96.18	11.75	<50	<0.5	<0.5	<0.5	<0.5	39.0
05/07/98	107.93	97.57	10.36	<50	<0.5	<0.5	<0.5	<0.5	54.0
06/17/99	107.93	96.60	11.33	<50	<0.5	<0.5	<0.5	<0.5	230.0
05/22/00	107.93	96.47	11.46	<50	<0.50	<0.50	<0.50	<0.50	570
05/04/01	107.93	96.00	11.93	<100	<1.00	<1.00	<1.00	<1.00	552/540[6]
05/03/02	107.93	96.02	11.91	90	<1.0	<0.50	<0.50	<1.5	300/260[6]
05/12/03[10]	107.93	96.91	11.02	54	<0.5	<0.5	<0.5	<1	210
05/14/04[11]	**107.93**	**96.26**	**11.67**	**83**	**<0.5**	**<0.5**	**<0.5**	**<1**	**160**
TRIP BLANK									
06/06/90	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
09/11/90	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/19/90	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/31/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
06/18/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/29/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/04/91	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
01/29/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
05/12/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/18/92	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
03/25/93	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	--
06/16/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
10/06/93	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/08/94	--	--	--	--	--	--	--	--	--
06/15/94	--	--	--	--	--	--	--	--	--
08/24/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
12/15/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6817

1705 Contra Costa Boulevard

Pleasant Hill, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)
TRIP BLANK (cont)									
02/27/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
05/18/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/24/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/30/95	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
02/19/96	--	--	--	<0.5	<0.5	<0.5	<0.5	<0.5	--
05/16/96	--	--	--	<50	<0.5	1.8	<0.5	<0.5	--
08/27/96	--	--	--	<50	<0.5	0.7	<0.5	<0.5	--
11/13/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
02/20/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
05/16/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
12/02/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/07/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
06/17/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5
05/22/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
05/04/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
05/03/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
QA									
05/12/03[10]	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/14/04[11]	**--**	**--**	**--**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron Service Station #9-6817

1705 Contra Costa Boulevard

Pleasant Hill, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 22, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
TPH-G = Total Petroleum Hydrocarbons

B = Benzene
T = Toluene
E= Ethyl benzene
X = Xylenes
MTBE = Methyl tertiary butyl ether

-- = Not Measured/Not Analyzed
(ppb) = Parts per billion
QA = Quality Assurance/Trip Blank

1 MW-C reported as MW-6 on analytical results of February 27, 1995 sampling.
2 Chromatogram pattern indicates an unidentified hydrocarbon.
3 Laboratory report indicates due to the presence of chlorinated compounds MTBE wasn't able to be quantified.
4 Laboratory report indicates weathered gas.
5 Laboratory report indicates discrete peaks.
6 MTBE by EPA Method 8260.
7 Laboratory report indicates single analyte peak(s) are present in the requested fuel quantitation range. Fuel hydrocarbon pattern is not present.
8 Pump in well.
9 Pump removed from well.
10 TPH-G, BTEX, and MTBE by EPA Method 8260.
11 BTEX and MTBE by EPA Method 8260.
12 Connected to remediation system.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-6817

1705 Contra Costa Boulevard

Pleasant Hill, California

WELL ID	DATE	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-C	05/04/01	<500	<20	5.6	<2.0	<2.0	<2.0	<2.0	<2.0
	05/03/02	--	<5	6	<0.5	<0.5	0.6	<0.5	<0.5
	05/12/03	--	<5	7	<0.5	<0.5	0.7	<0.5	<0.5
	05/14/04	**--**	**<5**	**7**	**<0.5**	**<0.5**	**0.7**	**<0.5**	**<0.5**
MW-D	05/12/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/14/04	**--**	**<5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
EA-1	05/12/03	--	82	250	<0.5	<0.5	11	0.6	<0.5
EA-2	05/12/03	--	<20	3	<2	<2	<2	<2	<2
EA-3	05/04/01	<500	<20	30	<2.0	<2.0	<2.0	<2.0	<2.0
	05/03/02	--	<5	12	<0.5	<0.5	<0.5	<0.5	<0.5
	05/12/03	--	<5	5	<0.5	<0.5	<0.5	<0.5	<0.5
	05/14/04	**--**	**<5**	**3**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
EA-4	05/12/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EA-5	05/04/01	<500	68	540	<2.0	<2.0	20	<2.0	<2.0
	05/03/02	--	<5	260	<0.5	<0.5	11	0.9	<0.5
	05/12/03	--	<5	210	<0.5	<0.5	9	1	<0.5
	05/14/04	**--**	**<5**	**160**	**<0.5**	**<0.5**	**8**	**0.6**	**<0.5**

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Chevron Service Station #9-6817

1705 Contra Costa Boulevard

Pleasant Hill, California

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = Elthylene dibromide / 1,2-Dibromoethane
(ppb) = Parts per billion
-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

Table 3
Groundwater Analytical Results
Chevron Service Station #9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California

WELL ID/ DATE	TCE (ppb)	PCE (ppb)	T-1,2,-DCE (ppb)	V.C. (ppb)	C-1,2-DCE (ppb)	1,2-DCA (ppb)	CHB (ppb)	CF (ppb)	1,1-DCE (ppb)
MW-C									
12/01/87	570	1,800	63	30.00	--	--	--	--	--
09/07/88	211	353	51.2	<20	--	--	--	--	--
01/03/89	300	1,600	<0.5	<1,000	--	--	--	--	--
04/06/89	--	--	--	--	--	--	--	--	--
05/05/89	--	--	--	--	--	--	--	--	--
06/12/89	--	--	--	--	--	--	--	--	--
06/20/89	296	950	38	<10	150	--	--	--	--
09/19/89	340	1,000	56	<2.0	--	--	--	--	--
12/28/89	<0.5	<0.5	<0.5	<2.0	--	--	--	--	--
06/06/90	--	--	--	--	--	--	--	--	--
09/11/90	--	--	--	--	--	--	--	--	--
12/19/90	99	380	11	--	36	<0.5	--	--	--
03/31/91	38	180	10	34.00	37	<0.5	--	--	--
06/18/91	17	47	0.9	<1.0	10	<0.5	<0.5	<0.5	--
08/29/91	83	320	7.1	<1.0	40	<0.5	<0.5	<0.5	<0.5
11/04/91	80	290	4.5	<1.0	30	<0.5	<0.5	<0.5	<0.5
01/29/92	62	93	2.0	<2.5	65	<1.2	<1.2	<1.2	<1.2
05/12/92	120	460	<25	<25	120	<25	<25	<25	<25
08/18/92	120	400	<2.5	<2.5	69	<2.5	<2.5	<2.5	6.2
12/31/92	100	500	<10	<10	100	<10	<10	<10	<10
03/25/93	--	--	--	--	--	--	--	--	--
06/16/93	<0.5	<0.5	7.0	10.00	140	<0.5	<0.5	<0.5	1.0
10/06/93	480	1,100	9.0	3.00	250	<0.5	<0.5	<0.5	<0.5
02/08/94	340	930	7.0	5.00	73	<0.5	<0.5	<0.5	0.9
06/15/94	160	760	<5.0	<10	89	<5.0	<5.0	<5.0	<5.0
08/24/94	160	570	5.8	1.00	96	<0.5	<0.5	<0.5	0.5
12/15/94	190	1,000	7.1	1.40	76	<0.5	<0.5	<0.5	0.8
02/27/95[1]	180	1,200	<25	<25	100	<25	<25	<25	<25
05/18/95	230	950	<25	<25	210	<25	<25	<25	<25
08/24/95	170	990	<25	<25	110	<25	<25	<25	<25
11/30/95	--	--	--	--	--	--	--	--	--
02/19/96	140	1,100	4.9	1.70	63	<0.5	<0.5	<0.5	<0.5
05/16/96	120	320	<10	<20	94	<10	<10	<10	<10

Table 3
Groundwater Analytical Results
Chevron Service Station #9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California

WELL ID/ DATE	TCE (ppb)	PCE (ppb)	T-1,2,-DCE (ppb)	V.C. (ppb)	C-1,2-DCE (ppb)	1,2-DCA (ppb)	CHB (ppb)	CF (ppb)	1,1-DCE (ppb)
MW-C (cont)									
11/13/96	130	990	<25	<50	68	<25	<25	<25	<25
02/20/97[2]	110	800	<1.0	<1.6	<1.0	<1.0	<1.0	1.1	1.7
05/16/97	140	940	<12	<25	88	<12	<12	<12	<12
12/02/97	100	500	<25	<50	110	<25	<25	<25	<25
05/07/98	190	730	<12	<25	140	<12	<12	<12	<12
06/17/99	212	972	<25	<50	145	<25	<25	<25	<25
05/03/02	140	670	3	<1	96	<0.5	<0.8	<0.8	<0.8
05/12/03	180	390	4	1	200	<0.5	<0.8	<0.8	<0.8
05/14/04	**160**	**510**	**3**	**1**	**110**	**<0.5**	**<0.8**	**<0.8**	**<0.8**
MW-D									
12/01/87	--	--	--	--	--	--	--	--	--
09/07/88	17.1	<2.5	82.5	169.00	--	--	--	--	--
01/03/89	<0.5	<0.5	<0.5	<1,000	--	--	--	--	--
04/06/89	--	--	--	--	--	--	--	--	--
05/05/89	--	--	--	--	--	--	--	--	--
06/12/89	337	<5.0	<5.0	<10	--	--	--	--	--
06/20/89	--	--	--	--	--	--	--	--	--
09/19/89	300	<10	250	<40	--	--	--	--	--
12/28/89	570	<0.5	440	62.00	--	--	--	--	--
06/06/90	--	--	--	--	--	--	--	--	--
09/11/90	--	--	--	--	--	--	--	--	--
12/19/90	--	--	--	--	--	--	--	--	--
03/31/91	--	--	--	--	--	--	--	--	--
06/18/91	--	--	--	--	--	--	--	--	--
08/29/91	--	--	--	--	--	--	--	--	--
11/04/91	--	--	--	--	--	--	--	--	--
01/29/92	1,100	<25	820	910.00	1,500	<25	<25	<25	<25
05/12/92	890	<25	870	360.00	1,600	<25	<25	<25	<25
08/18/92	1,200	59	<50	250.00	1,900	<50	<50	<50	930
12/31/92	--	--	--	--	--	--	--	--	--
03/25/93	--	--	--	--	--	--	--	--	--

Table 3
Groundwater Analytical Results
Chevron Service Station #9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California

WELL ID/ DATE	TCE (ppb)	PCE (ppb)	T-1,2,-DCE (ppb)	V.C. (ppb)	C-1,2-DCE (ppb)	1,2-DCA (ppb)	CHB (ppb)	CF (ppb)	1,1-DCE (ppb)
MW-D (cont)									
06/16/93	<0.5	8	140	110.00	330	<0.5	<0.5	<0.5	<0.5
10/06/93	--	--	--	--	--	--	--	--	--
02/08/94	--	--	--	--	--	--	--	--	--
06/15/94	--	--	--	--	--	--	--	--	--
08/24/94	--	--	--	--	--	--	--	--	--
12/15/94	--	--	--	--	--	--	--	--	--
02/27/95	--	--	--	--	--	--	--	--	--
05/18/95	--	--	--	--	--	--	--	--	--
08/24/95	<10	<10	37	22.00	35	<10	<10	<10	<10
11/30/95	--	--	--	--	--	--	--	--	--
02/19/96	--	--	--	--	--	--	--	--	--
05/16/96	--	--	--	--	--	--	--	--	--
11/13/96	Discontinued								
05/12/03	<1	<0.8	<0.8	<1	<0.8	<0.5	<0.8	<0.8	<0.8
05/14/04	**<1**	**1**	**<0.8**	**<1**	**<0.8**	**<0.5**	**<0.8**	**<0.8**	**<0.8**
EA-1									
12/01/87	--	--	--	--	--	--	--	--	--
09/07/88	6.2	2.7	2.6	3.60	--	--	--	--	--
01/03/89	6.5	4.4	1.7	<0.5	--	--	--	--	--
04/06/89	--	--	--	--	--	--	--	--	--
05/05/89	--	--	--	--	--	--	--	--	--
06/12/89	17	<5.0	<5.0	<10	22	--	--	--	--
06/20/89	--	--	--	--	--	--	--	--	--
09/19/89	26	3.9	5.4	<2.0	--	--	--	--	--
12/28/89	47	5.1	9.6	5.70	--	--	--	--	--
06/06/90	--	--	--	--	--	--	--	--	--
09/11/90	--	--	--	--	--	--	--	--	--
12/19/90	46	20	19	--	37	<0.5	--	--	--
03/31/91	87	26	30	<1.0	50	<0.5	--	--	--
06/18/91	160	40	22	19.00	67	<0.5	<0.5	--	--
08/29/91	180	34	24	6.30	60	<0.5	<0.5	<0.5	<0.5

Table 3
Groundwater Analytical Results
Chevron Service Station #9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California

WELL ID/ DATE	TCE (ppb)	PCE (ppb)	T-1,2,-DCE (ppb)	V.C. (ppb)	C-1,2-DCE (ppb)	1,2-DCA (ppb)	CHB (ppb)	CF (ppb)	1,1-DCE (ppb)
EA-1 (cont)									
11/04/91	230	58	25	<1.0	76	<0.5	<0.5	<0.5	0.6
01/29/92	160	54	9.3	<5.0	44	<2.5	<2.5	<2.5	<2.5
05/12/92	300	73	30	6.20	76	<2.5	<2.5	<2.5	<2.5
08/18/92	210	60	32	6.00	83	<1.7	<1.7	<1.7	<1.7
12/31/92	200	40	20	<5.0	70	<5.0	<5.0	<5.0	<5.0
03/25/93	230	54	28	<10	74	<5.0	<5.0	<5.0	9.2
06/16/93	<5.0	48	23	<10	79	<5.0	<5.0	<5.0	<5.0
10/06/93	130	40	29	4.00	66	<5.0	<5.0	<5.0	<5.0
02/08/94	91	34	22	7.00	47	4.0	<0.5	<0.5	1.0
06/15/94	100	33	22	10.00	53	3.0	<0.5	<0.5	0.8
08/24/94	84	42	26	4.30	61	1.9	<0.5	<0.5	<0.5
12/15/94[3]	130	55	36	7.00	75	3.2	<0.5	<0.5	0.7
02/27/95	210	73	50	<5.0	83	<5.0	<5.0	<5.0	<5.0
05/18/95	180	66	45	<2.5	95	<2.5	<2.5	<2.5	<2.5
08/24/95	180	49	30	<10	90	<10	<10	<10	<10
11/30/95	120	41	25	<8.0	65	<5.0	<5.0	<5.0	<5.0
02/19/96	120	38	<0.5	5.70	72	1.2	<0.5	<0.5	<0.5
05/16/96	78	21	<10	<20	65	<10	<10	<10	<10
08/28/96	150	38	22	4.60	30	<0.5	<0.5	<0.5	1.2
11/13/96	62	19	12	<2.0	28	<1.0	<1.0	<1.0	<1.0
02/20/97	34	13	5.2	<0.8	16	0.5	<0.5	<0.5	<0.5
05/16/97	13	5.1	3.5	<1.0	8.4	1.1	<0.5	<0.5	<0.5
12/02/97	11	5.4	3.8	<1.0	6.8	1.1	<0.5	<0.5	<0.5
05/12/03	90	56	14	<1	55	0.6	<0.8	<0.8	<0.8
EA-2									
09/07/88	241	<2.5	<5.0	--	--	--	--	--	--
01/03/89	1,700	<0.5	<200	--	--	--	--	--	--
04/06/89	--	--	--	--	--	--	--	--	--
05/05/89	--	--	--	--	--	--	--	--	--
06/12/89	1,640	14	<10	720.00	22	--	--	--	--
06/20/89	--	--	--	--	--	--	--	--	--

Table 3
Groundwater Analytical Results
Chevron Service Station #9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California

WELL ID/ DATE	TCE (ppb)	PCE (ppb)	T-1,2,-DCE (ppb)	V.C. (ppb)	C-1,2-DCE (ppb)	1,2-DCA (ppb)	CHB (ppb)	CF (ppb)	1,1-DCE (ppb)
EA-2 (cont)									
09/19/89	2,700	<25	<100	--	--	--	--	--	--
12/28/89	52	120	1.1	<2.0	--	--	--	--	--
06/06/90	--	--	--	--	--	--	--	--	--
09/11/90	--	--	--	--	--	--	--	--	--
12/19/90	142	389	0.7	--	21	0.7	<0.5	<0.5	<0.8
03/31/91	--	--	--	--	--	--	--	--	--
06/18/91	1,100	2,000	21	34.00	1,200	--	--	--	--
08/29/91	--	--	--	--	--	--	--	--	--
11/04/91	--	--	--	--	--	--	--	--	--
01/29/92	--	--	--	--	--	--	--	--	--
05/12/92	380	3,500	<25	<25	740	<25	<25	<25	<25
08/18/92	79	2,500	<2.5	<2.5	120	<2.5	<2.5	<2.5	<2.5
12/31/92	--	--	--	--	--	--	--	--	--
03/25/93	--	--	--	--	--	--	--	--	--
06/16/93	<0.5	2,100	10	2.00	73	1.0	<0.5	<0.5	<0.5
10/06/93	--	--	--	--	--	--	--	--	--
02/08/94	--	--	--	--	--	--	--	--	--
06/15/94	--	--	--	--	--	--	--	--	--
08/24/94	--	--	--	--	--	--	--	--	--
12/15/94	--	--	--	--	--	--	--	--	--
02/27/95	--	--	--	--	--	--	--	--	--
05/18/95	--	--	--	--	--	--	--	--	--
08/24/95	760	4,000	<50	<50	250	<50	<50	<50	<50
11/30/95	--	--	--	--	--	--	--	--	--
02/19/96	--	--	--	--	--	--	--	--	--
05/16/96	--	--	--	--	--	--	--	--	--
05/12/03	3,600	3,100	28	81	2,900	<2	<3	<3	<3
EA-3									
09/07/88	134	1,570	<2.5	<5.0	--	--	--	--	--
01/03/89	750	5,000	6.5	<250	--	--	--	--	--
04/06/89	--	--	--	--	--	--	--	--	--

Table 3
Groundwater Analytical Results
Chevron Service Station #9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California

WELL ID/ DATE	TCE (ppb)	PCE (ppb)	T-1,2,-DCE (ppb)	V.C. (ppb)	C-1,2-DCE (ppb)	1,2-DCA (ppb)	CHB (ppb)	CF (ppb)	1,1-DCE (ppb)
EA-3 (cont)									
05/05/89	--	--	--	--	--	--	--	--	--
06/12/89	64	2,190	<5.0	<10	35	--	--	--	--
06/20/89	--	--	--	--	--	--	--	--	--
09/19/89	100	64	5.4	8.90	--	--	--	--	--
12/28/89	162	3,060	2.9	<2.0	--	--	--	--	--
06/06/90	--	--	--	--	--	--	--	--	--
09/11/90	--	--	--	--	--	--	--	--	--
12/19/90	--	--	--	--	--	--	--	--	--
03/31/91	40	3,800	2.0	<1.0	26	<0.5	2.0	--	--
06/18/91	--	--	--	--	--	--	--	--	--
08/29/91	340	2,700	12	<1.0	130	<0.5	<0.5	<0.5	<0.5
11/04/91	99	490	2.3	<1.0	38	<0.5	<0.5	<0.5	<0.5
01/29/92	67	970	<0.5	<1.0	38	<0.5	<0.5	<0.5	<0.5
05/12/92	180	1,700	<25	<25	62	<25	<25	<25	<25
08/18/92	97	730	<1.25	<1.25	46	<1.25	<1.25	<1.25	3.0
12/31/92	--	--	--	--	--	--	--	--	--
03/25/93	150	1,000	<25	<50	40	<25	<25	<25	<25
06/16/93	<0.5	600	2.0	<1.0	77	<0.5	<0.5	<0.5	<0.5
10/06/93	--	--	--	--	--	--	--	--	--
02/08/94	130	410	4.0	<1.0	76	<0.5	<0.5	<0.5	<0.5
06/15/94	--	--	--	--	--	--	--	--	--
08/24/94	87	350	3.1	<1.0	88	<0.5	<0.5	<0.5	<0.5
12/15/94	59	210	2.3	2.30	44	<0.5	<0.5	<0.5	<0.5
02/27/95	100	310	<5.0	<5.0	71	<5.0	<5.0	<5.0	<5.0
05/18/95	130	370	<5.0	<5.0	80	<5.0	<5.0	<5.0	<5.0
08/24/95	95	300	<10	<10	51	<10	<10	<10	<10
11/30/95	110	380	25	<8.0	65	<50	<50	<50	<50
02/19/96	84	340	2.0	2.20	60	<0.5	<0.5	<0.5	<0.5
05/16/96	83	220	<10	<20	83	<10	<10	<10	<10
08/28/96	120	600	<0.5	2.50	26	<0.5	<0.5	<0.5	<0.5
11/13/96	94	670	<10	<20	73	<10	<10	<10	<10
02/20/97	340	1,800	<12	<20	250	<12	<12	<12	<12
05/16/97	72	390	<10	<20	46	<10	<10	<10	<10

Table 3
Groundwater Analytical Results
Chevron Service Station #9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California

WELL ID/ DATE	TCE (ppb)	PCE (ppb)	T-1,2,-DCE (ppb)	V.C. (ppb)	C-1,2-DCE (ppb)	1,2-DCA (ppb)	CHB (ppb)	CF (ppb)	1,1-DCE (ppb)
EA-3 (cont)									
12/02/97	45	250	<5.0	<10	54	<5.0	<5.0	<5.0	<5.0
05/07/98	120	540	<12	<25	85	<12	<12	<12	<12
06/17/99	155	564	<10	<20	134	<10	<10	<10	<10
05/03/02	470	1,800	20	<1	660	<0.5	<0.8	<0.8	1
05/12/03	250	800	13	<1	420	<0.5	<0.8	<0.8	<0.8
05/14/04	**240**	**750**	**12**	**1**	**430**	**<0.5**	**<0.8**	**<0.8**	**<0.8**
EA-4									
06/12/89	<5.0	<5.0	<5.0	<10	<5.0	--	--	--	--
06/20/89	--	--	--	--	--	--	--	--	--
09/19/89	<2.0	0.5	<0.5	<2.0	--	--	--	--	--
12/28/89	<0.5	<0.5	<0.5	<2.0	--	--	--	--	--
06/06/90	--	--	--	--	--	--	--	--	--
09/11/90	--	--	--	--	--	--	--	--	--
12/19/90	<0.5	<0.5	<0.5	--	<0.5	<0.5	--	--	--
03/31/91	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	--	--
06/18/91	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	--
08/29/91	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
11/04/91	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
01/29/92	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
05/12/92	--	--	--	--	--	--	--	--	--
08/18/92	--	--	--	--	--	--	--	--	--
12/31/92	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
03/25/93	--	--	--	--	--	--	--	--	--
06/16/93	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
10/06/93	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
02/08/94	<0.5	0.6	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
06/15/94	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
08/24/94	0.9	7.1	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
12/15/94	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
02/27/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
05/18/95	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 3
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WELL ID/ DATE	TCE (ppb)	PCE (ppb)	T-1,2,-DCE (ppb)	V.C. (ppb)	C-1,2-DCE (ppb)	1,2-DCA (ppb)	CHB (ppb)	CF (ppb)	1,1-DCE (ppb)
EA-4 (cont)									
08/24/95	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
11/30/95	<0.5	<0.5	<0.5	<0.8	<0.5	<0.5	<0.5	<0.5	<0.5
02/19/96	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
05/16/96	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
08/28/96	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
11/13/96	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
02/20/97	<0.5	<0.5	<0.5	<0.8	<0.5	<0.5	<0.5	<0.5	<0.5
05/16/97	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
12/02/97	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
05/12/03	<1	<0.8	<0.8	<1	<0.8	<0.5	<0.8	<0.8	<0.8
EA-5									
06/12/89	<0.5	<5.0	<5.5	<10	6.0	--	--	--	--
06/20/89	--	--	--	--	--	--	--	--	--
09/19/89	<0.5	2.2	<0.5	<2.0	--	--	--	--	--
12/28/89	2.0	<0.5	<0.5	<2.0	--	--	--	--	--
06/06/90	--	--	--	--	--	--	--	--	--
09/11/90	--	--	--	--	--	--	--	--	--
12/19/90	--	--	--	--	--	--	--	--	--
03/31/91	8.0	<0.5	1.0	<1.0	8.0	<0.5	<0.5	--	--
06/18/91	13	0.9	2.0	<1.0	13	<0.5	<0.5	<0.5	--
08/29/91	23	1.3	3.7	<1.0	20	<0.5	<0.5	<0.5	<0.5
11/04/91	22	3.1	4.4	<1.0	16	<0.5	<0.5	<0.5	<0.5
01/29/92	55	1.5	6.7	<1.0	26	<0.5	<0.5	<0.5	<0.5
05/12/92	62	6.0	11	2.20	35	<1.0	<1.0	<1.0	<1.0
08/18/92	41	5.6	7.8	1.10	24	<0.5	<0.5	<0.5	<0.5
12/31/92	42	4.4	6.9	0.80	25	<0.5	<0.5	<0.5	<0.5
03/25/93	74	9.9	7.5	<5.0	41	<2.5	<2.5	<2.5	<2.5
06/16/93	<0.5	9.0	13	4.00	58	<0.5	<0.5	<0.5	<0.5
10/06/93	58	9.0	11	1.00	38	<0.5	<0.5	<0.5	<0.5
02/08/94	53	11	9.0	3.00	28	<0.5	<0.5	<0.5	0.7
06/15/94	47	10	8.0	3.00	<0.5	1.0	<0.5	<0.5	0.6

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EA-5 (cont)									
08/24/94	42	11	9.0	1.00	29	1.0	<0.5	<0.5	<0.5
12/15/94	42	8.5	8.2	<1.0	25	1.3	<0.5	<0.5	0.5
02/27/95	39	5.8	5.0	<2.5	16	<2.5	<2.5	<2.5	<2.5
05/18/95	81	17	14	<1.7	35	<1.7	<1.7	<1.7	<1.7
08/24/95	68	15	13	3.50	37	1.5	<1.0	<1.0	<1.0
11/30/95	52	11	9.4	3.00	29	1.2	<0.5	<0.5	<0.5
02/19/96	54	12	7.5	<1.0	34	1.0	<0.5	<0.5	<0.5
05/16/96	61	12	<10	<20	55	<10	<10	<10	<10
08/28/96	79	17	16	<5.0	26	1.0	<0.5	<0.5	1.0
11/13/96	43	<1.0	9.7	<2.0	29	1.1	<1.0	<4.0	<1.0
02/20/97	75	23	13	1.00	41	1.1	<0.5	1.4	<0.5
05/16/97	65	17	14	<2.5	35	<1.2	<1.2	<2.5	<1.2
12/02/97	45	20	12	<2.0	27	<1.0	<1.0	<1.0	<1.0
05/07/98	59	14	16	<2.5	38	<1.2	<1.2	<1.2	<1.2
06/17/99	47.5	12.7	13.4	<2.5	34.1	<1.25	<1.25	<1.25	<1.25
05/03/02	84	52	12	<1	34	0.9	<0.8	<0.8	<0.8
05/12/03	79	48	9	<1	32	1	<0.8	<0.8	<0.8
05/14/04	**67**	**42**	**8**	**<1**	**27**	**0.6**	**<0.8**	**<0.8**	**<0.8**
TRIP BLANK									
01/20/92	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
05/12/92	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5
10/06/93	<0.5	<0.5	<0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5

Table 3
Groundwater Analytical Results
Chevron Service Station #9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California

EXPLANATIONS:

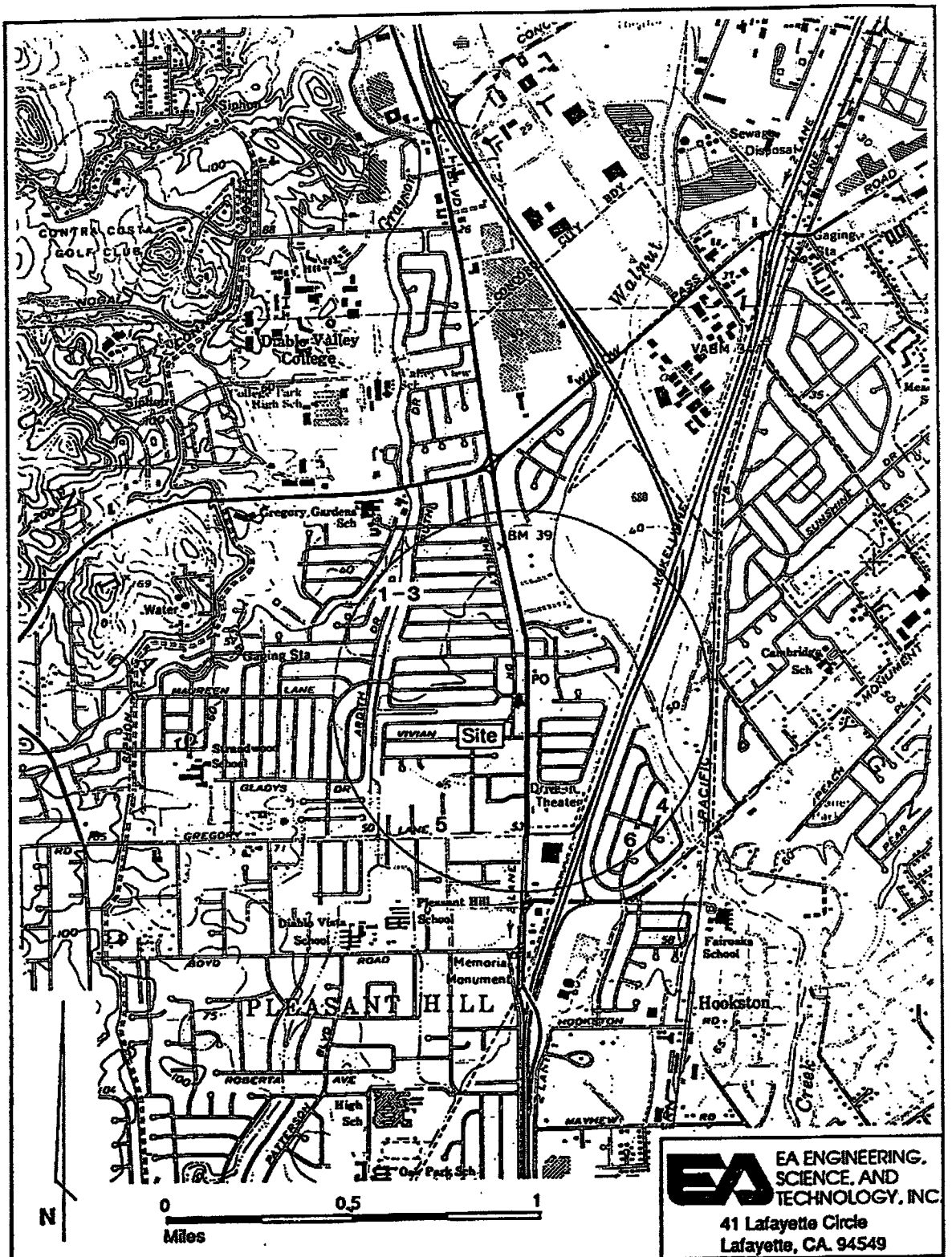
Groundwater laboratory analytical results prior to May 3, 2002, were compiled from reports prepared by Blaine Tech Services, Inc.

TCE = Trichloroethene
PCE = Tetrachloroethene
T-1,2-DCE = Trans-1,2-Dichloroethene
V.C. = Vinyl Chloride
C-1,2-DCE = Cis-1,2-Dichloroethene
1,2-DCA = 1,2-Dichloroethene
CHB = Chlorobenzene
CF = Chloroform
1,1-DCE = 1,1-Dichloroethene
-- = Not Analyzed

[1] MW-C reported as MW-6 on analytical results.
[2] Methylene chloride was detected at 1.7 ppb. Results are taken from two levels of diluted analysis.
[3] Cis-1,3-dichloropropene detected at 0.9 ppb.

NOTE: All other HVOCs by EPA Method 8260 were less than the reporting limit unless indicated above.

Attachment C
Water Well Survey



EA ENGINEERING, SCIENCE, AND TECHNOLOGY, INC.
41 Lafayette Circle
Lafayette, CA. 94549

Drawn	Date
TRJ	7 May 89
Reviewed	**Date**
KSK	5/9/89

Figure 1. Location of Chevron SS 9-6817 and groundwater wells within 0.5 miles of the station, September 1988. (Map well numbers correspond to well numbers in table 1.)

TABLE 1 INFORMATION FOR WELLS WITHIN 0.5 MILE OF CHEVRON SERVICE STATION 9-6817, PLEASANT HILL, CALIFORNIA, OCTOBER 1988

Well Number[a]	Well Location	Distance From Station (feet)	Direction From Station	Year Drilled	Permitted Use
1	1791 Ardith	2,400	NW	1950	irrigation
2	1767 Ardith	2,400	NW	1951	irrigation
3	1772 Ardith	2,400	NW	1951	irrigation
4	112 Adela Court	2,500	SE	1952	irrigation
5*	Gregory and Cleveland	2,250	SW	1985	—
6	2185 Ramona Drive	2,500	SE	1952	—
7	2W-10G	**	SE	1967	test

a. Well numbers correspond to map well numbers on Figure 1.
* Destroyed.
** Unknown; estimated >2,000.
— No data available.

Source: California Department of Water Resources, Sacramento, California, boring log files.

Attachment D
Site Management Plan

Site Management Plan for Future Risk Mitigation
Chevron Service Station 9-6817
1705 Contra Costa Boulevard
Pleasant Hill, California 94523

September 13, 2004

Prepared by,
Robert K. Wenzlau, P.E.
Terradex, Inc.

1. Introduction

A site management plan is a monitoring strategy applying land use and groundwater monitoring while a site biodegrades to water quality goals consistent with the San Francisco Bay Basin Plan. A site management plan can be adjunct to a site closure in order to mitigate the potential risk of residual contamination. Utilizing a site management plan is applicable to sites where site characterization is completed to expected level by the oversight agency, corrective action has been completed to the extent practicable, and additional time is required for the residual contamination to biodegrade.

A registered professional engineer, on behalf of Chevron Environmental Management Company (CEMC), has prepared this site management plan.

2. Site Management Plan

This site management plan provides for protection of public health, the environment and water resources during the post-closure monitoring period and while the residual contamination continues to remediate through biodegradation. This site management plan will provide controls to limit the realization of the three potential exposure/receptor scenarios identified within the CSM.

- **Boundaries of Site Management Zone.** The site management zone is limited to the subject property and the adjacent streets including Linda Avenue, Doris Drive and Contra Costa Boulevard. Currently is an operating gas station with car wash:

- **Limiting Future Construction Worker Contact with Soil.** To limit the prospect of this exposure scenario, excavation and new construction land activity within the site management zone will be monitored.

- **Limiting Future Inhalation by Resident or Commercial Worker of Vapor Hydrocarbons.** To limit the prospect of this exposure scenario, excavation new construction and real estate/occupancy land activity data within the site management zone will be monitored. The monitoring for these changes will be limited to the location of the former dry cleaner; land activities will be monitored for 1) the use of the property changes from commercial to residential in which sensitivity increases, 2)

the location of the structure were to be placed above the former dry cleaner area in which the dose could be greater concentration, or 3) subsurface construction were to occur into the property and adjacent street in which the receptor is in greater proximity to the dose.

- **Limiting Future Environmental Receptor Contact with Soil.** To limit the prospect of this exposure scenario, excavation land activity data within the site management zone will be monitored. A depth interval of five feet will be maintained within the street, and one foot will be maintained within the station property.

- **Limiting Future Groundwater Use for Drinking Water or Agricultural.** To protect water resources, implement site management measures within the zone of residual contamination to direct appropriate mitigation of a future water supply well to protect water resources, and the prospective user of the water resource. New water resources development within 1,000 feet of the site will be monitored for.

- **Validate Stability of Residual Contamination Plume.** Monitor groundwater quality at well EA-5 annually for indication of loss of stability of the contaminant plume.

- **Duration of Site Management Plan.** The site management plan shall be maintained until a request to discontinue the site management plan is made to the CRWQCB-SFRB.

The site management plan, to the extent practicable, provides for prevention of activities causing human or environmental risk. The approach depends upon four elements: 1) monitoring land activity data, 2) alerting the responsible party if land activity data could pose an environmental or human health risk, and then 3) mitigating the risk as applicable to the detected land activity. This monitor, alert, and mitigate approach is framed by a fourth element, an assurance plan that includes reporting, and quality assurance. The responsible party will need to maintain such systems until a request to terminate site management activities is granted by the appropriate regulatory agency.

2.1. Land Activity Monitoring Plan Element

The objective of a monitoring plan is to target and monitor indicators of future land activity leading to potential human health and environmental risk. A land activity monitoring system aggregates land use records including permits, notices and recordings, and analyzes these records against criteria set to be protective of human health and the environment. The following data categories are applied in this monitoring plan:

Table 3-1
Land Use Monitoring Program

Land Use Data	Land Use Management Zones		Land Use Alert Threshold	Data Collection Frequency	Data Review Period (Days)
	Site	Public Strets			
Construction	Yes	Yes	Projects with excavation >1' on the station or > 5' off station boundary or dewatering. Placement of occupied structures above the former dry cleaner.	Monthly	5
Real Estate	Yes	No	Change from operating service station by identification of new owner	Monthly	5
Excavation Notices	Yes	Yes	Projects with excavation >5' or dewatering	Daily	2
Water Well Permitting	Yes	Yes	New public water supply wells or dewatering permits within 1,000 feet of site.	Monthly	5

- **Construction Data.** This data includes construction bids for commercial, large residential and municipal projects typically over $50,000 in construction costs.

- **Real Estate Data.** Sales of residential and commercial real estate properties, as well as undeveloped land. All property transactions are recorded at the Contra Costa County Recorders Office.

- **Excavation Notices.** The data includes all excavation activities reported to Underground Service Alert North (USA North). All excavators excavating at or near a public right-of-way are required to provide 48-hour notice of the excavation to USA North.

- **Water Well Permitting.** Terradex queries Department of Health Services for new water well permits. The frequency of this query is evolving, but shall be a minumum on a monthly frequency.

A land use monitoring program will be implemented upon closure. The land use management zone is identified within Figure 10 and their respective land activity data represented within Table 3-2. Within this zone, real estate, building permit, construction, excavation and water well permitting will be monitored. A land use alert threshold is set for each category of land use monitored, and if exceeded becomes a basis for alerting the responsible party. A data review period is the amount of time provided to validate the land activity data prior to alerting the responsible party.

2.2. Groundwater Quality Monitoring Plan Element

The objective of this revised groundwater monitoring plan is to verify that the plume continues to naturally biodegrade. The groundwater monitoring program is represented within Table 6. Well EA-5 is selected because it is downgradient of both source areas. An alert criterion is set based upon the monitoring objective and current water quality within the well. In addition to groundwater quality monitoring, a gradient will be calculated and compared to an alert criteria based on historical trends. The monitoring frequency is annual. All groundwater quality data will be uploaded into GeoTracker.

Alert criteria for the monitoring well were established based upon trends in water quality. Following the groundwater monitoring event, a registered professional shall review groundwater elevation data and concentrations from sampling and stability against stated alert thresholds. A registered professional will determine continued attentuation after reviewing water quality for continuing downward trends (accommodating for upward fluctuations consistent with monitoring history).

Table 3-2
Proposed Groundwater Monitoring Plan

Monitoring Well(s)	Monitoring Objective	Analytes	Groundwater Quality Alert Threshold (ppb)	Frequency
EA-5	Observe for new upward trends, and observe for conditions favorable to biodegradation.	Methods TPHg 8015 BTEX+Halogenated Organics by 8260 Dissolved Oxygen	TPHg > 200 ppb B > 10 ppb TCE > 100 ppb PCE > 100 ppb MtBE > 500 ppb	Annual, September

2.3. Alert Plan Element

If a land use activity is detected that has characteristics that exceed the Land Use Alert Threshold, then the responsible party will be notified of the activity within the data review period. The alert contains land activity data that has been validated to the extent practicable. Included in the notice is the nature of the land activity, as well as applicable contacts to either the contractor or project owner. A similar alert model occurs with groundwater monitoring results.

These alerts are transmitted to the responsible party and to the regulatory agency with oversight the site (*i.e.* California Regional Water Quality Control Board). The notices will be sent electronically to the regulatory agency, and uploaded to the State of California's Geotracker database. An alert is ultimately "closed" either because the land activity did not pose a human or environmental risk, or because the risk was mitigated. The information used to "close" an alert will be recorded in an updated alert record.

2.4. Mitigation Plan Element

The responsible party will undertake mitigation measures to avert human or environmental risk associated with a prospective land activity. These activities can be self-directed, and do not necessarily require regulatory oversight. Such activities may include the following:

- Directing proper treatment and disposal of potentially contaminated groundwater or soil.
- Notifying an excavator of chemicals of concern, and health resources to guide their health and safety.
- Identifying information about residual contamination such that a contractor or project owner can operate safely, and complete projects where human health risk is mitigated.

All mitigation measures will be described within the record associated with the original alert for the land activity exceeding the threshold criteria.

2.5. Assurance Plan Element

The assurance plan is intended to provide environmental regulatory oversight agencies the comfort and confidence in application of a land use monitoring system to aid in the protection of human health and the environment. Components of the assurance plan include 1) reporting, 2) quality control, and 3) durability of the service.

Reporting of monitoring and alerts will be available through Internet access to a secure web site or through transmittal of period electronic reports containing up-to-date monitoring and alert data. No formal report submittals to the regulatory agency are expected, though an agency can establish a reporting frequency, and the information system will automatically transmit the electronic report to a destination of choice.

Quality of the land activity data is evaluated periodically by contacting the applicant, and validating that the land activity is occurring. The information technology has redundant processes to geo-locate the land activities relative to the site management zones. When land activity information is vague, the applicant will be contacted to obtain relevant details about a prospective land activity. On an annual basis, the contact information on potentially alerted organizations would be verified, and updated as appropriate.

The site management plan is a commitment to provide oversight into the future. CEMC will provide notice to the environmental agency if a change is made in the land use monitoring system. Currently, CEMC anticipates using Terradex to provide the monitoring, alerting and assurance services. Terradex has a notification mechanism provided by its legal counsel to inform CEMC in the event of termination of its operations, and that time CEMC would retain an alternate monitoring service provider.

3. Terradex Implementation of the Site Management Plan

The site management plan is reflected through implementation of Terradex's land use monitoring and alert system. A Site Sentinel™ for this Chevron Service Station is enclosed within this attachment. The Site Sentinel™ represents the site management zone, the land activities monitored with criteria, and the contacts alerted. An account for access by the the California Regional Water Quality Control Board exists, and this site will be added to the tracked listings. Alerts, if generated, will be sent through GeoTracker to the CRWQCB. The Site Sentinel™ will be activated upon receipt of a closure approval form the CRWQCB. Once activated, a final Site Sentinel will be transmitted.

Site Sentinel: Chevron Service Station 9-6817

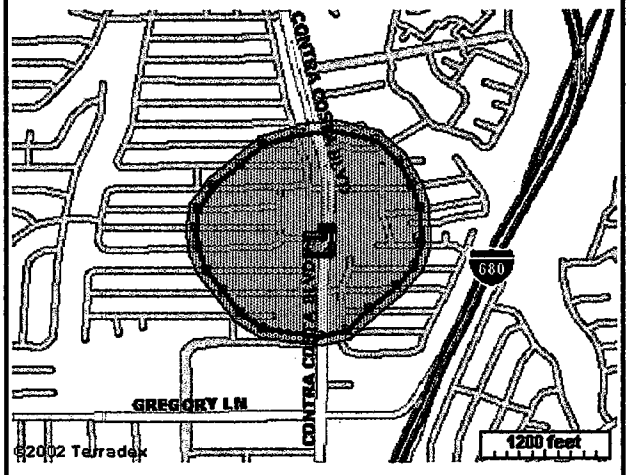
Cover Sheet

TERRADEX

PROJECT INFORMATION

Primary Information	**Site Name:** Chevron Service Station 9-6817 **Primary Address:** 1705 Contra Costa Blvd, Pleasant Hill, CA 94583 **Site Sentinel Number:** 9258802115
Hosting Status	**Activated:** No **Start Date:** None **End Date:** None

ADVISORY ZONE LOCATIONS



ADVISORY ZONES

Impact	Zone Designation
Watch	Water Resource Development Zone
Notification	Site Management Zone

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HOW TO USE THIS SITE SENTINEL

This is a multi-page Site Sentinel describing representations made into the Terradex system.

- **Cover Sheet:** This sheet contains the primary site information, the hosting status (e.g. duration and activation status), the location of the advisory zone(s) with their associated force (*i.e.* restriction, notification or watch).
- **Advisory Sheet(s).** An attached sheet describes each advisory zone including geographic coordinates, overview description, and land use controls.
- **Commitments, Contact Profiles and Documentation.** The final sheet contains reference to site commitments, the contacts party to this Sentinel and/or commitments, and any documents that have been uploaded to the Terradex system.

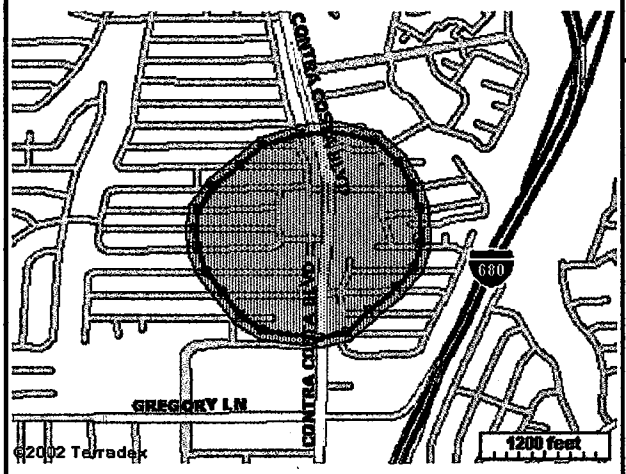
Please visit Terradex on the Internet to obtain further explanation of these forms at www.Terradex.com.

TERRADEX

Site Sentinel: Chevron Service Station 9-6817

Environmental Watch

MAP OF WATCH ZONE



GEOGRAPHIC SPECIFICATION

Buffer Size: 100 feet

Geographic Coordinates: (Decimal Degrees in NAD 87)

Latitude	Longitude	Latitude	Longitude
1) 37.950359	-122.060387	13) 37.956615	-122.059863
2) 37.950584	-122.062060	14) 37.956329	-122.058674
3) 37.951074	-122.062765	15) 37.955695	-122.058009
4) 37.951729	-122.063269	16) 37.954959	-122.057566
5) 37.952362	-122.063752	17) 37.954243	-122.057344
6) 37.953098	-122.064034	18) 37.953221	-122.057284
7) 37.953671	-122.064095	19) 37.952465	-122.057526
8) 37.954284	-122.063994	20) 37.951872	-122.058050
9) 37.954939	-122.063510	21) 37.951177	-122.058856
10) 37.955572	-122.062765	22) 37.950563	-122.059561
11) 37.956165	-122.062039		
12) 37.956492	-122.060931		

SITE NOTICES

Designation	Water Resource Development Zone
Alert Criteria	New public water supply wells or dewatering permits within 1,000 feet Land Activity Data: Water Well Permitting. Response Waiting Period: 48 Hours
Follow-up on Alert	Review Site Management Plan and issue alerts accordingly.
Chemicals of Concern	Not Applicable
Security	Not Viewable by Public Agency

WATCHES IN FORCE	*(web links to land use definitions)*
Not Applicable	Not Applicable

HOW TO USE THIS ENVIRONMENTAL WATCH DEVELOPMENT ADVISORY

A watch zone observes a zone where land use queries to Terradex are reported back to the Responsible Party or their designee.

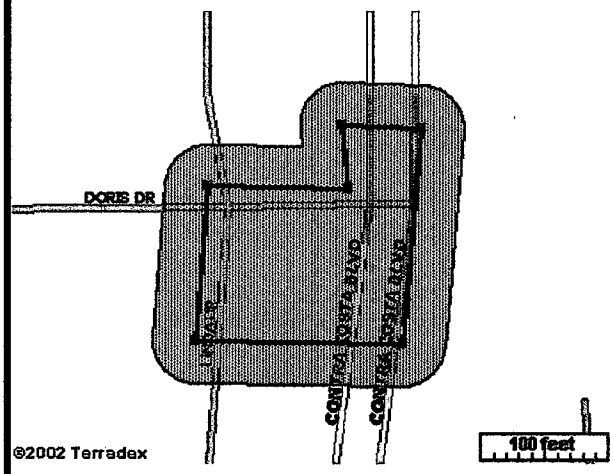
Terradex Site Sentinel Number: 9258802115 **Report Date: 9/13/2004**

Site Sentinel: Chevron Service Station 9-6817

TERRADEX

Environmental Notification

MAP OF NOTIFICATION ZONE



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GEOGRAPHIC SPECIFICATION

Buffer Size: 50 feet

Geographic Coordinates: (Decimal Degrees in NAD 87)

Latitude	Longitude	Latitude	Longitude
1) 37.953410	-122.060704		
2) 37.953400	-122.060241		
3) 37.953615	-122.060261		
4) 37.953604	-122.059999		
5) 37.952889	-122.060060		
6) 37.952899	-122.060745		

SITE NOTICES

Designation	Site Management Zone
Alert Criteria	Construction: project with excavation >1' on the station or >5' off station boundary or dewatering. Placement of occupied structures above the former dry cleaner. Real Estate: Change from operating service station by identification of new owner.
Follow-up on Alert	Review Site Management Plan and issue alerts accordingly.
Proof of Notification	
Summary of Notification	
Chemicals of Concern	Tetrachloroethylene, Trichloroethylene, Methyl t-butyl ether, Benzene, Automotive gasoline
Security	Viewable by Public Agency

NOTIFICATIONS IN FORCE

(web links to land use definitions)

Groundwater Usage	Agricultural, Drinking, Dry Well
Land Use Categories	City / County Owned, Day Care, Educational, Residential with landscaping, Residential without landscaping
Subsurface Improvements	Elevator, Occupied Basement, Swimming Pools, Underground Parking
Utility Worker Warning	Contact Alert, Vapor Presence

Terradex Site Sentinel Number: 9258802115 **Report Date: 9/13/2004**

TERRADEX

Site Sentinel: Chevron Service Station 9-6817

Commitments, Contact Profiles and Documentation

COMMITMENTS

Category	Start Date	Frequency	Commitment
Site Reporting Obligations	9/1/2004	Annually	Groundwater Monitoring Report

CONTACT PROFILES

Commitment Notification	Edit Privilege	Contact By	Publicly Disclose Contact	Role / Contact
	Read Write Activate		No	**Role:** Responsible Party Tom Bauhs, ChevronTexaco, Inc. 6001 Bollinger Canyon Road, M/S K2204, San Ramon, CA 94583 **Voice:** 925-842-8898 **Fax:** None **Email:** TKBA@chevrontexaco.com
	Read Write	Email	No	**Role:** Agent Peter Biffar, Terradex, Inc. 1409 Dana Avenue, Palo Alto, CA 94301 **Voice:** (866) 461-5100 **Fax:** None **Email:** peter@terradex.com

DOCUMENTATION

Name (click link to download)	Publicly Disclose	Description