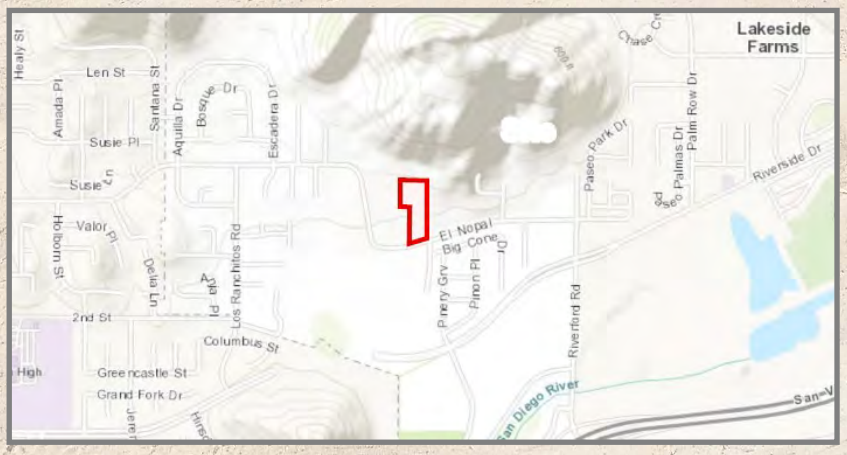
Phase I Environmental Site Assessment Report
El Nopal Subdivision Project
11320 El Nopal
Lakeside, California 92040

PREPARED FOR:
Mr. Salim Miro
SCSS Development, LLC
12905 Sedge Ct.
San Diego, California 92129

PREPARED BY:
The Bodhi Group Inc.



Revised January 2018
Project No. 9125001

THE BODHI GROUP
INNOVATING | SUSTAINING | SOLVING

January 9, 2018
Project No. 9125001

Mr. Salim Miro
SCSS Development, LLC
12905 Sedge Ct.
San Diego, California 92129

Subject: Phase I Environmental Site Assessment Report
11320 El Nopal
Lakeside, CA 92040

Dear Mr. Miro,

The Bodhi Group has performed a Phase I Environmental Site Assessment (ESA) of the property located at 11320 El Nopal, Lakeside, California (County of San Diego Tax Assessor's Parcel Number 379-023-39). The ESA was performed in accordance with the scope and limitations of ASTM International Standard Practice E 1527-13. This report includes our findings, conclusions, recommendations, and supporting documentation.

Respectfully submitted,

THE BODHI GROUP, INC.





Sree Gopinath, P.E.
Principal Engineer

Emily Burns
Staff Scientist

Distribution: 1) Addressee

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ACRONYMS AND ABBREVIATIONS

ACM	Asbestos-containing material
ADL	Aerially-deposited lead
APN	Tax Assessor's Parcel Number
AST	Aboveground storage tank
ASTM	American Society for Testing and Materials, International
bgs	Below ground surface
Bodhi Group	The Bodhi Group, Inc.
CASGEM	California Statewide Groundwater Elevation Monitoring system
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CESQG	Conditionally Exempt Small Quantity Generator
CFR	Code of Federal Regulations
CORRACTS	Corrective Action Sites
CREC	Controlled recognized environmental condition
DEH	San Diego County Department of Environmental Health
DTSC	California Department of Toxic Substances Control
EDR	Environmental Data Resources, Inc.
ESA	Environmental Site Assessment
ERNS	Emergency Response Notification System
HREC	Historic recognized environmental condition
LBP	Lead-based paint
LQG	Large Quantity Generator
LUCIS	Land Use Control Information System
LUST	Leaking underground storage tank
NFRAP	No Further Remedial Action Planned

NPL	National Priorities List
PCBs	polychlorinated biphenyls
RCRA	Resource Conservation and Recovery Act
REC	Recognized environmental condition
SAM	Site Assessment and Mitigation
SCSS	SCSS Development, LLC
Site	11320 El Nopal Subdivision Project
SLIC	Spills, Leaks, Investigation, and Cleanup
SQG	Small Quantity Generator
SVOC	Semi-volatile organic compounds
TSDF	Treatment Storage and Disposal Facilities
USGS	United States Geological Survey
UST	Underground storage tank
VI	Vapor intrusion
VOCs	Volatile organic compounds
Water Board	San Diego Regional Water Quality Control Board

EXECUTIVE SUMMARY

The Site, located at 11320 El Nopal in the City of Lakeside, California, consists of one parcel (Tax Assessor's Parcel No. [APN] 379-023-39) (Figure 1). The parcel is owned by SCSS Development, LLC (SCSS) and Mr. James Lackritz. The Site is a residential parcel with a few existing structures on the Site, bordered by additional residential parcels, El Nopal, and Street "A". SCSS retained The Bodhi Group, Inc. to prepare a Phase I Environmental Site Assessment (ESA) for the Site.

There are no unauthorized release cases associated with the Site and adjacent parcels at the San Diego County Department of Environmental Health (DEH), the local certified unified public agency with regulatory oversight authority delegated by the State of California, the San Diego Regional Water Quality Control Board (Water Board), the California Department of Toxic Substances Control (DTSC), and CalRecycle.

Along well-traveled roads that existed prior to the phasing out of leaded gasoline, which includes the section of El Nopal adjacent to the Site, shallow soil may have been contaminated with aerially-deposited lead (ADL) caused by historical emissions from vehicle exhausts. The degree of impacts will depend on the density of traffic along El Nopal prior to the phasing out of leaded gasoline. Since there is no information on the density of traffic prior to the phasing out of gasoline, it is recommended to sample shallow soil at the Site, adjacent to El Nopal, for ADL impacts. This assessment has not revealed the evidence of any other hazardous materials release or impacts at the Site.

Although hazardous building materials are typically not evaluated during a Phase I ESA, based on the age of the structures on Site, there may be hazardous building materials present on the structures, including but not limited to, lead-based paint (LBP) and asbestos-containing materials (ACM). A hazardous building material survey by properly licensed professionals can provide information on the presence, nature, and extent of hazardous building materials.

1 INTRODUCTION

The Bodhi Group, Inc. (Bodhi Group) has completed a Phase I Environmental Site Assessment (ESA) of the El Nopal Subdivision Project (Site). The Site is located on El Nopal in the western end of Lakeside, California north of the San Vicente Freeway (State Route 67), in San Diego County (Figure 1).

1.1. Purpose

In accordance with the American Society for Testing and Materials International (ASTM) "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," Standard Practice E1527-13, the objective of this ESA is to document, to the extent feasible, recognized environmental conditions (RECs), which are defined by ASTM as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." *De minimis* conditions are not RECs as they do not present a threat to human health or the environment and generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

1.2. Scope of Services

The following services were provided for this assessment:

- Review of physical setting and background information for the access road easement (e.g., topographic maps).
- Site reconnaissance to document potential hazardous materials handling, storage, and disposal practices, areas of possibly contaminated surficial soil or surface water, possible sources of polychlorinated biphenyls (PCBs), underground and aboveground storage tanks (USTs and ASTs, respectively), and other possible sources of contamination.
- Review of federal, state, tribal, and local regulatory agency databases for the parcels traversed by the access road easement and for properties located within a specified radius of the parcels. The databases document locations of known hazardous waste sites, landfills, leaking underground storage tanks (LUSTs), permitted facilities that utilize USTs, and permitted facilities that use, store, or dispose of hazardous materials and wastes.
- Review of reasonably ascertainable local regulatory agency files for the parcels traversed by the access road easement, as applicable.
- Review of historical information for the parcels traversed by the access road easement, such as Sanborn Fire Insurance maps, historical aerial photographs, reverse street directories, and building permit records, as available and reasonably ascertainable.
- Review of owner and client-provided information regarding the environmental status of the parcels traversed by the access road easement, if available.
- A search for engineering or institutional controls associated with the parcels traversed by the access road easement.
- A search of historical RECs for unrestricted residential use standards.
- The potential for vapor intrusion (VI) of gas phase volatile organic compounds (VOCs) into structures, as applicable.

Preparation of this Phase I ESA report, summarizing findings, identifying RECs associated with the access road easement, and providing opinions, conclusions, and recommendations, as applicable.

1.3. Significant Assumptions

This Phase I ESA was conducted in accordance with ASTM guidelines and does not constitute an exhaustive investigation of the Site. No other warranties either expressed or implied, are made. The evaluations, analyses, and opinions contained herein should not be taken as representations regarding subsurface conditions or the actual value of the Site. Subsurface conditions may differ from the conditions implied by the surficial observations, and can only be reliably evaluated through comprehensive Site investigation, including the collection and analyses of subsurface media samples.

Documentation and data provided by the client, current property owner, other interested third parties, or from the public domain, and referred to in the preparation of this assessment, are assumed to be complete and correct and have been used and referenced with the understanding that the Bodhi Group assumes no responsibility or liability for their accuracy. The conclusions contained herein are based upon such information and documentation and on our observations of Site conditions, as they existed on the date of the Site inspection. Because Site conditions may change significantly over a short period of time and additional data may become available, data reported and conclusions drawn in this report are limited to current conditions and may not be relied upon on a significantly later date or if changes occurred at the Site.

1.4. Limitations and Exceptions

Reasonable efforts have been made during this assessment to uncover evidence of features of potential environmental concern at the Site. “Reasonable efforts” are limited to information gained from visual observation of unobstructed areas, recorded database information held in public record, and available information gathered from interviews. Such methods may not identify subsurface equipment that may have been hidden from view due to paving, construction or debris pile storage, or incorrect/incomplete information from sources.

This assessment was not an environmental compliance audit. While some observations and discussion in this report may address conditions and/or operations that may be regulated, the regulatory compliance of those conditions and/or operations is outside the scope of this investigation. Nothing in this report constitutes a legal opinion or legal advice. For information regarding specific individual or organizational liability, the Bodhi Group recommends consultation with independent legal counsel.

This ESA does not address non-scope ASTM considerations including, but not limited to: asbestos-containing materials (ACM), radon, lead in drinking water, wetlands, protected environments and habitat, threatened or endangered species, industrial hygiene concerns, human health risk assessment, indoor air quality, high voltage power lines, geotechnical conditions, cultural and historical resources, health and safety, and mold. However, this report may include an opinion on the potential presence of these materials, which should be further evaluated through a separate, independent investigation.

1.5. Special Terms and Conditions

No special terms and conditions between the Bodhi Group and the client pertinent to the findings of this ESA or methodology used to complete this assessment are noted. The Bodhi Group does not have a financial interest in the Site.

1.6. User Reliance

This report was prepared for the use solely and exclusively by SCSS Development, LLC (SCSS). The report is not for the use or benefit of, nor may it be relied upon by, any other person or entity for any purpose without the advance written consent of the Bodhi Group. The Bodhi Group makes no representation to any third party except that it has used the degree of care and skill ordinarily exercised by a reasonable prudent environmental professional in the same community and in the same time frame given the same or similar facts and circumstances. No other use or disclosure is intended or authorized by the Bodhi Group. In the preparation of this ESA, the Bodhi Group has used the degree of care and skill ordinarily exercised by a reasonably prudent environmental professional in the same community and in the same time frame given the same or similar facts and circumstances. No other warranties are made to any third party, either expressed or implied.

2 SITE DESCRIPTION

2.1. Location and Description

The Site is approximately four acres, located in the western portion of Lakeside, north of the San Vicente Freeway (Figure 1). It is at Latitude: 32.8617150, Longitude: -116.9530280. The general area is designated as Semi-Rural Residential land use (County, 2011). Land use is shown in Figure 2. The surface elevation of the Site is approximately 399 feet above mean sea level (EDR, 2017e).

2.2. Township, Range, Section, and Meridian

The Site is located in Township 15S, Range 01W, Section 14, of the San Bernardino Meridian in the County of San Diego (Earth Point, 2018).

2.3. Site and Vicinity General Characteristics

The Site is located on El Nopal and next to Street “A” in Lakeside, California. The Site is currently a residential property, with several structures on the Site. Surrounding and adjacent parcels are mostly residential properties as well; the parcel across the street to the south (El Nopal) is used for livestock farming. Details pertaining to the Site and adjoining properties are provided in the sections below.

2.4. Current Use of the Site

On January 5, 2018, a representative of the Bodhi Group performed a visual inspection of the Site and adjoining properties. The Site, as previously noted, is a residential property and is occupied by a few structures (house, shed, small stable-like structure).

2.5. Current Uses of Adjoining Properties

Adjacent properties and their current uses are described in the following table and are labeled on Figure 2. Photographs of the Site are included in Appendix C.

Table 1 – Current Uses of Adjoining Properties

Direction	Adjoining Property Use
North	The parcel to the north of the Site is a residential property.
West	The parcel to the west of the Site is a residential property.
East	The parcel to the east of the Site is a residential property.
South	The parcel to the south of the Site, across El Nopal, is a business – Hilliker's Ranch Fresh Eggs.

3 USER-PROVIDED INFORMATION

In the County's Project Issue Checklist for the Site (Appendix D), there were noted observations of several 55-gallon drums and other waste materials on the property during a Site visit on May 18, 2017. During the Bodhi Group Site visit on January 5, 2018, 55-gallon drums were not observed on the Site. Other waste material observations are discussed in Section 5 (Appendix D).

3.1. Title Records

Title records have not been provided.

3.2. Environmental Liens or Activity and Use Limitations

Mr. Lackritz and Mr. Miro were both not aware of environmental cleanup liens filed or recorded against the Site, or of activity and use limitations in place at the Site. The Bodhi Group retained Environmental Data Resources, Inc. (EDR) to conduct an environmental lien search for the Site (EDR, 2017b). Records for environmental liens and/or activity and use limitations were not found by EDR for the Site. The EDR lien search report is included in Appendix A.

3.3. Specialized Knowledge

Mr. Lackritz and Mr. Miro did not have specialized knowledge of hazardous materials releases at the Site and was not aware of any other conditions on other nearby properties that could result in potential adverse environmental conditions at the Site.

3.4. Commonly Known or Reasonably Ascertainable Information

Mr. Lackritz and Mr. Miro were not aware of commonly known or reasonably ascertainable information that would help the environmental professional to identify conditions indicative of releases or threatened releases of hazardous wastes or materials at the Site.

3.5. Valuation Reduction for Environmental Issues

Monetary valuation was not performed for this assessment.

3.6. Owner, Property Manager, and Occupant Information

The parcel at the Site is currently owned by Mr. James Lackritz and SCSS. The Site is currently a residential property.

3.7. Reason for Performing Phase I ESA

The Bodhi Group has been retained to conduct this Phase I ESA to identify RECs in connection with the planned Site development by SCSS.

4 RECORDS REVIEW

The following sections summarize records reviewed for the Site.

4.1. Standard Environmental Record Sources

The Bodhi Group obtained and reviewed an environmental database search conducted by EDR, dated December 2017 (EDR, 2017a-e). The environmental databases searched ("standard environmental record sources") and their corresponding search radii were equal to or greater than the minimum search distances specified by ASTM E1527-13. Properties within specific search radii and identified on environmental databases are listed in Table 2. Further details and descriptions of the databases reviewed by EDR are provided in the environmental database report in Appendix A.

Table 2 – Standard Environmental Databases

Database Name	Search Radius (Mile)	Number of Mapped Listings
FEDERAL DATABASES		
National Priorities List (NPL)	1	0
Proposed NPL	1	0
NPL Liens	Site	0
Delisted NPL	1	0
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)	0.5	0
CERCLIS Federal Facility	0.5	0
CERCLIS No Further Remedial Action Planned (NFRAP)	0.5	0
Resource Conservation and Recovery Act (RCRA) Corrective Action Sites (CORRACTS)	1	0
RCRA Treatment Storage and Disposal Facilities (TSDF)	0.5	0
RCRA - Large Quantity Generator (LQG)	0.25	0
RCRA - Small Quantity Generator (SQG)	0.25	0
RCRA - Conditionally Exempt SQG (CESQG)	0.25	0
Federal Engineering Controls	0.5	0
Federal Institutional Controls	0.5	0
Land Use Control Information System (LUCIS)	0.5	0
Federal Emergency Response Notification System (ERNS)	Site	0
STATE/TRIBAL DATABASES		
State- and Tribal-equivalent NPL	1	0
State- and Tribal-equivalent CERCLIS	1	1
State and Tribal Landfill and/or Solid Waste Disposal Sites	0.5	1
State and Tribal LUSTs	0.5	1
State Spills, Leaks, Investigation, and Cleanup (SLIC)	0.5	1
San Diego County Site Assessment and Mitigation (SAM) Cases	0.5	0
State and Tribal Registered USTs	0.25	0
State and Tribal Registered ASTs	0.25	0
State VCP	0.5	0
Drycleaners	0.25	0
US Brownfields	0.5	0
Local Lists of Landfill / Solid Waste Disposal Sites	0.5	1
Local Land Records - Liens	Site	0

4.1.1. Subject Site

The Site was not listed in the databases searched by EDR (Table 2).

4.1.2. Adjacent Properties

There were no adjacent properties listed in the databases searched by EDR (Table 2).

4.1.3. State- and Tribal-equivalent CERCLIS

There was one site identified as a State- and Tribal-equivalent CERCLIS site. Ketema Process Equipment at 9484 Mission Park Place is located 0.87 miles downgradient from the Site. Due to the distance and location, this site does not result in a REC for the Site.

4.1.4. State and Tribal Landfill and/or Solid Waste Disposal Sites

There was one site identified as a State and Tribal Landfill and/or Solid Waste Disposal Site. Lakeside Land Company at 10101 Riverford Road is located 0.59 miles downgradient of the Site. Due to the distance and location, this site does not result in a REC for the Site.

4.1.5. State and Tribal LUSTs

There was one site identified as a State and Tribal LUST site. Woodward Sand Company at 9891 Riverford Road is located 0.56 miles downgradient of the Site. Due to the distance and location, this site does not result in a REC for the Site.

4.1.6. State SLIC

There was one SLIC site identified. Woodward Sand Company at 9891 Riverford Road is located 0.56 miles downgradient of the Site. Due to the distance and location, this site does not result in a REC for the Site.

4.1.7. Local Lists of Landfill / Solid Waste Disposal Sites

There were two sites identified as Local Lists of Landfill / Solid Waste Disposal sites. Lakeside Land Company at 1161 Riverside Drive is located 1.33 miles east of the Site. Quality Recycling Inc. at 10197 Riverford Road is located 0.37 miles east of the Site. Due to the distance and location, the Lakeside Land Company is not a REC for the Site. No additional information was given for Quality Recycling, Inc.; any potential leaks or spills have not been reported. Due to the location and status, Quality Recycling, Inc. is not considered a REC for the Site.

4.2. Regulatory Files Search

This section discusses findings from a review of State and Local regulatory agency files.

4.2.1. County of San Diego Department of Environmental Health (DEH)

In response to a public records request, the DEH searched for files for the Site and adjacent parcels, however no files were found. For properties outside the Site and adjacent parcels, there were files found for sites 0.5 and 1.0 mile from the Site. The files consist of compliance inspection reports, technical reports, closure documents, and correspondence letters (Appendix B). Due to the distance, location, and/or status of the sites found, there are no resulting RECs for the Site.

4.2.2. San Diego Regional Water Quality Control Board (Water Board)

A review of the Water Board Geotracker website identified 3 LUST sites within 1 mile of the Site; there were no LUST, cleanup, or land disposal sites found within 0.5 miles of the Site. The sites listed in Geotracker do not result in RECs for the Site.

4.2.3. California Department of Toxic Substances Control (DTSC)

A review of the DTSC Envirostor website identified 2 sites within one mile of the Site. The Ketema Process Equipment Company is listed as a state- and tribal-equivalent CERCLIS site, and was given a "no action required" status in 1998. The El Capitan Quarry / El Cajon Mountain Mill Site was contaminated from illegal dumping in 1981 with cobalt, nickel, iron, and semi-volatile organic compounds (SVOCs). Cleanup was completed in 1989. Based on the regulatory status and distance from the Site, these sites do not result in RECs for the Site.

4.2.4. CalRecycle

A review of CalRecycle's Solid Waste Information System did not show any disposal sites mapped within a half-mile of the Site. The closest disposal site, Lakeside Land Company, is more than 0.5 miles from the Site. Based on the distance from the Site, the disposal site does not result in a REC for the Site.

4.3. Physical Setting Sources

The following sections include discussions of topographic and hydrogeologic conditions in the vicinity of the Site, based upon the referenced document review and/or our visual reconnaissance of the Site.

4.3.1. Topography

Based on a review of historical topographic maps, the Site is located at an elevation of approximately 399 feet above mean sea level (EDR, 2017e). It consists of flat and graded parcels that are relatively level with the surrounding area.

4.3.2. 4.3.2 Surface Waters

The closest body of surface water to the Site is the San Diego River, located approximately 0.5 miles southeast of the Site.

4.3.3. Groundwater

Based on a review of available hydrogeologic data from the Water Board's San Diego Hydrologic Basin Planning Area Map, the Site lies within the San Diego Hydrologic Unit (HU 907.00). The Site more specifically lies within the Santee Hydrologic Subarea (907.12) in the Lower San Diego Hydrologic Area (HA 907.10) (Water Board, 2005).

According to the California Statewide Groundwater Elevation Monitoring system (CASGEM) Water Level Monitoring Plan for the City of San Diego, the Site falls within the San Diego River Valley Groundwater Basin, about 13.8 square miles (CASGEM, 2013).

According to the EDR report, the groundwater in this area is presumed to flow southward (EDR, 2017c). The Site is located directly over part of the California Coastal Basin aquifer (ACWI, 2017). Based on the EDR report, there are three observation wells that have been identified near the Site, however, only one well has recent groundwater measurements. Well 2 in the EDR report (Marilla Well) is located ½ - 1 mile

east-southeast of the Site (EDR, 2017c). The most recent groundwater measurement for this location was 20.33 feet below ground surface (bgs) on November 8, 2017 (WDL, 2017).

4.4. Historical Use Information on the Site and Adjoining Properties

The following sections summarize the results of our review of historical records for the Site and adjoining properties.

4.4.1. Sanborn Fire Insurance Maps

There were no Sanborn Fire Insurance Maps found by EDR (Appendix A).

4.4.2. Historical Aerial Photographs

The Bodhi Group reviewed aerial photographs from 1949, 1953, 1964, 1966, 1970, 1979, 1985, 1989, 1994, 2005, 2009, 2010, and 2012 (EDR, 2017a). The aerial photographs reviewed are included in Appendix A.

- In the aerial photograph from 1949, the Site can be recognized by the existence of El Nopal and Street "A". There are no buildings on Site; a few buildings appear to exist immediately adjacent to the Site.
- In the photograph from 1953, there appears to be a structure on Site.
- The 1964 aerial photograph, there appears to be multiple structures on Site and in the Site vicinity.
- The 1966 aerial photograph is similar to the 1964 aerial photograph.
- In the 1970 aerial photograph, there appears to be more structures in the Site vicinity.
- The 1979 aerial photograph is similar to the 1970 aerial photograph.
- The 1985 aerial photograph appears to show agricultural land use southeast of the Site.
- The 1989 aerial photograph is similar to the 1985 aerial photograph.
- The 1994 aerial photograph is similar to the 1989 aerial photograph.
- In the 2005 aerial photograph, the previously agricultural land use area to the southeast of the Site now appears to be residential.
- The 2009, 2010, and 2012 aerial photographs are similar to the 2005 aerial photograph.

4.4.3. Historical Topographic Maps

The Bodhi Group reviewed historical topographic maps available through the United States Geological Survey (USGS) Historical Topographic Map Explorer for the years 1893, 1901, 1903, 1939, 1942, 1947, 1948, 1955, 1967, 1975, 1996, and 2012 (EDR, 2017e). The topographic map starting in 1893 doesn't show many roads or other features. The 1955 map and subsequent maps are consistent with the aerial photograph review. The topographic maps reviewed for this ESA are included in Appendix A.

4.4.4. Reverse City Directories

EDR conducted a search of available city directory data for the Site (EDR, 2017b). The addresses of sites that used or stored chemicals or petroleum products (based on the listed name of the business) were cross-referenced against other sources (regulatory review). A copy of the city directory abstract is provided in Appendix A. The Site address, 11320 El Nopal, was listed as Roy's Leather & Gifts in 1992. In 1995, the Site was listed as "Occupant Unknown". In 2005, the Site was listed under Larry D. Parrot, and under Gene D. Butler in 2014.

5 SITE RECONNAISSANCE

The objective of the site reconnaissance was to obtain information indicating the likelihood of RECs in connection with the Site. Ms. Emily Burns of The Bodhi Group performed the Site reconnaissance on January 5, 2018. Photographic documentation is provided in Appendix C.

5.1. Methodology and Limiting Conditions

The site reconnaissance consisted of walking the Site and viewing adjacent properties. The Site has several sections of fencing. Other than that, physical limitations were generally not encountered.

5.2. General Site Setting

The existing structures were observed on the Site; there was a house, a small, stable-like structure, a truck camper, and a shed. There is pavement (driveway) extending from Street "A" to the house and stable-like structure (see photos in Appendix C).

5.3. Site Observations

Table 3 below provides a checklist of common Site observations relative to potential environmental concerns.

Table 3 – Site Observations

Conditions	Not Observed or Noted	Observed or Noted	Significant Concern?
Hazardous Substances/Petroleum Products		X	N
Waste Generation/Storage/Disposal		X	N
ASTs	X		N
Potential Evidence of USTs	X		N
Potential PCB-Containing Equipment		X	N
Chemical/Petroleum Odors	X		N
Suspect Concrete Patches/Pads	X		N
Pools of Liquid	X		N
Sewage Discharge Pipes	X		N
Floor Drains/Sumps	X		N
Hydraulic Elevator	X		N
Wells	X		N
Drums	X		N
Unidentified Substance Containers		X	N
Stained Soil or Pavement	X		N
Stressed Vegetation		X	N
Pits, Ponds, or Lagoons	X		N
Wastewater Discharge Disposal Systems	X		N
Septic Systems/Cesspools	X		N
Municipal Solid Waste Disposal Areas	X		N
Other Conditions		LBP and ACM	Y

The unidentified substance containers refer to the unlabeled 5-gallon buckets stored around the property. There were more than a dozen 5-gallon containers with unknown contents. Since there was no observed staining or odor in the vicinity of the containers, this observation is not considered a REC.

Hazardous Substances / Petroleum Products and Waste Generation / Storage / Disposal refers to the collection of small containers of latex stain, Barbicide, wallpaper stripper, gloss enamel, various aerosols, acrylic additive, insecticide, an empty 5-gallon container, and 4 propane tanks. Since there was no observed staining or odor in the vicinity of the containers, this observation is not considered a REC for the Site.

Waste Generation / Storage / Disposal also refers to the dumpster of recycling that is located in the northeast corner of the property along Street "A". Since no spills, leaks, staining, or odor was observed, this observation is not considered a REC.

There is a utility box along the edge of the property by El Nopal. Prior to the banning of PCBs in the late 1970s, some electrical equipment may have had coolants and/or lubricants containing PCBs. Since no spills or leaks were found around the utility box, this observation is not considered a REC.

The large quantity of undergrowth / grasses / weeds on the Site appeared to be distressed due to heat and/or lack of water. Accordingly, this observation is not considered a REC.

From the review of aerial photographs, the structures on Site are estimated to have existed since at least 1953. These structures may contain hazardous building materials, including lead-based paint (LBP) and ACM.

6 REVIEW OF ADJACENT PROPERTIES WITH POTENTIAL RECS

Unidentified substance containers were seen during the Site reconnaissance on the ground of the adjacent property to the east (APN: 379-023-10). Given the distance from the Site, this is not considered a REC.

7 FINDINGS

The Site, located at 11320 El Nopal, Lakeside, California consists of one parcel (APN: 379-023-39) (Figure 1). The parcel is owned by Mr. Lackritz and SCSS. The Site is in a semi-rural residential area, adjacent to residential properties, a livestock parcel, El Nopal, and Street "A". SCSS retained the Bodhi Group to prepare this Phase I ESA for the Site.

Of the federal, state, tribal, and local environmental databases searched by EDR, the Site was not listed in any database. There were no files for the Site and immediately adjacent parcels at the Water Board, DTSC, or CalRecycle websites. There were no files found for the Site and adjoining parcels at the DEH.

A historic recognized environmental condition (HREC) is a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). It is important to note that an HREC is not considered a REC that requires additional investigation or action. HRECs were not identified on the Site.

A controlled recognized environmental condition (CREC) is a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a o further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). CRECs were not identified on the Site.

There are no known releases of VOCs or SVOCs to the subsurface at the Site or immediate vicinity. Accordingly, VI of VOCs/SVOCs into indoor air of structures is an incomplete pathway and is not a REC for the Site.

El Nopal and Street "A" are visible in the 1949 aerial photograph (during the time when leaded gasoline was used in automobiles). Shallow soil adjacent to these streets, including the Site, can be contaminated with aerially-deposited lead (ADL) caused by historic emissions from vehicle exhausts. The lead concentrations may exceed State and Federal hazardous waste criteria or may be at concentrations that require special handling and placement. Surface and shallow soil samples can be collected at the Site and analyzed for total lead. If elevated lead is encountered, additional laboratory testing can provide further information for waste classification and disposal. Testing will determine whether the soil contains ADL and if special precautions are needed for worker protection and waste management/disposal during grading. The potential to encounter ADL is considered a REC.

There are a few structures on Site that have been in the same location since at least 1953, and others that have been in existence since at least 1964. It is recommended to survey the structures for hazardous building materials, including LBP and ACM. If hazardous building materials are identified on Site, shallow soil adjacent to the structures may be evaluated for impacts. The evaluation of hazardous building materials, including ACM and LBP, is not within the scope of this project, and therefore is not considered a REC.

8 DEVIATIONS / DATA GAPS

Deletions or deviations were not noted during this assessment. No significant data gaps that would affect the ability of the environmental professional to identify conditions indicative of releases or threatened releases were encountered during this Phase I ESA.

9 REFERENCES

Advisory Committee on Water Information (ACWI), National Ground-Water Monitoring Network, 2017. https://cida.usgs.gov/ngwmn/index.jsp.

ASTM International (ASTM), 2013. Standard Practices for Environmental Site Assessments: Phase I Environmental Site Assessment Process Designation No. E 1527-013.

California Department of Water Resources, Water Data Library (WDL), 2017. Groundwater Level for Well 328556N1169394W001. Accessed: 3 January 2018. http://www.water.ca.gov/waterdatalibrary/groundwater/hydrographs/brr_hydro.cfm?CFGRIDKEY=48692. s

California Statewide Groundwater Elevation Monitoring (CASGEM), 2013. Water Level Monitoring Plan, City of San Diego, 6 June 2013. http://www.water.ca.gov/irwm/grants/docs/Archives/Prop84/Submitted_Applications/P84_2014Drought/San%20Diego%20County%20Water%20Authority%20(201498760018)/Attachment%201%20-%20Att1_DG_Eligible_11of12.pdf

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Environmental Data Resources, Inc. (EDR), 2017c. Radius Map Report, dated: December 2017.

Environmental Data Resources, Inc. (EDR), 2017d. Certified Sanborn Map Report, dated: December 2017.

Environmental Data Resources, Inc. (EDR), 2017e. Historical Topo Map Report, dated: December 2017.

San Diego County (County), 2011. San Diego County General Plan, Land Use Maps Appendix. http://www.sandiegocounty.gov/pds/gpupdate/docs/BOS_Aug2011/C.1-9_LU_Appendix_Element_Draft_General_Plan_appendix.pdf

San Diego Regional Water Quality Control Board (Water Board), 1973 (Revised 2005). San Diego Hydrologic Basin Planning Area Map, Water Board, Scale 1:250,000.

10 SIGNATURE AND QUALIFICATIONS OF THE ENVIRONMENTAL PROFESSIONALS

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined by §312.10 of 40 Code of Federal Regulations (CFR) 312. I have specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.





Sree Gopinath, P.E. C57987
Principal Engineer

Qualifications of the environmental professionals involved in the performance of the Phase I ESA are included in Appendix E.

11 LIMITATIONS

This report was prepared in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants preparing similar documents at the Site. No warranty, expressed or implied, is made regarding the professional opinions presented in this document. Variations in Site conditions will exist and conditions not observed or described in this document could be encountered during subsequent activities and Site work. Please also note that this document did not include an evaluation of geotechnical conditions or potential geologic hazards.

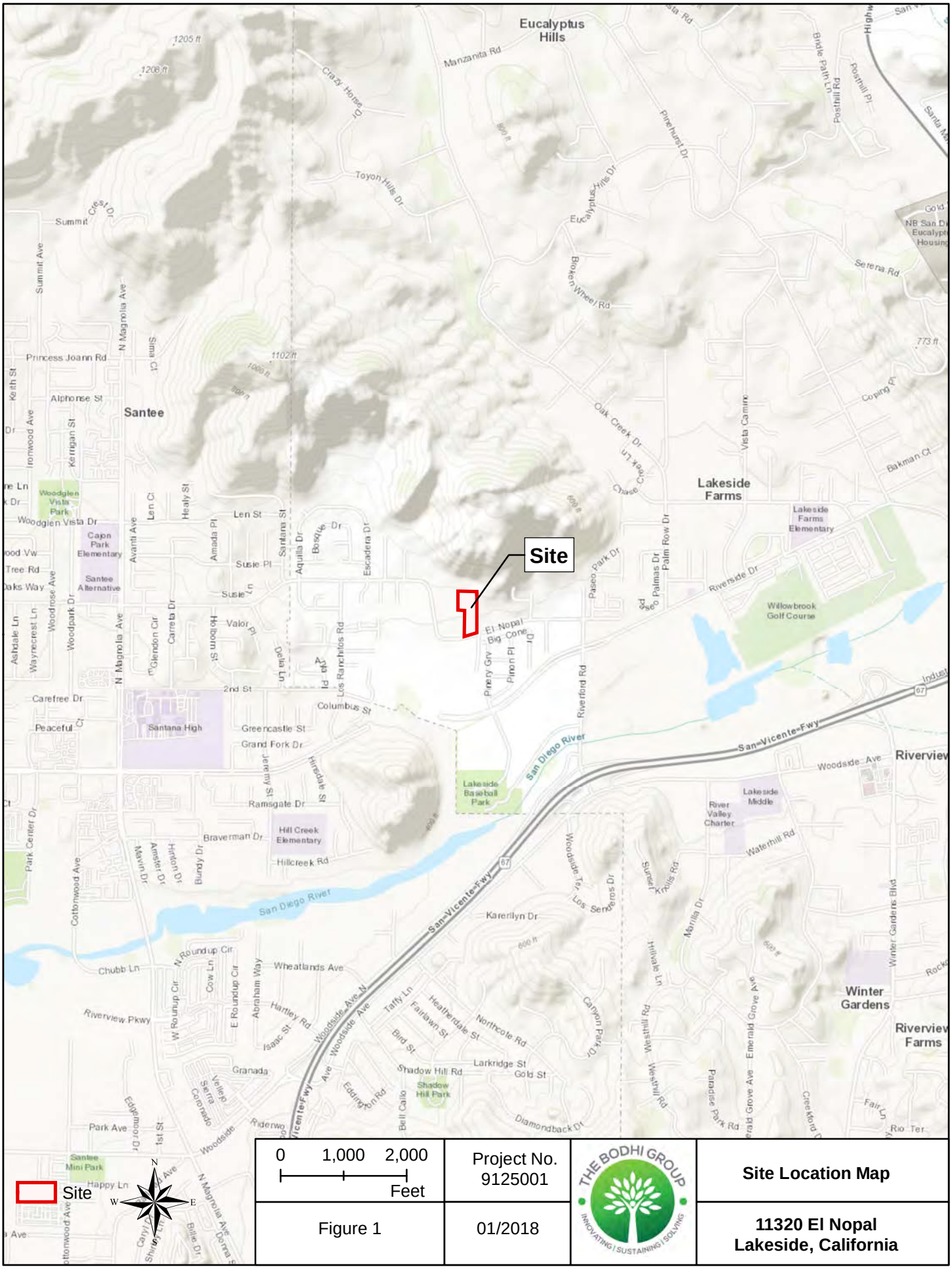
The conclusions, opinions, and recommendations regarding environmental conditions, as presented in this document, are based on an analysis of observed Site conditions and the referenced sources. Further assessment of environmental conditions at the Site may be accomplished by a more comprehensive assessment.

It should be understood that the conditions of a Site will change with time as a result of natural processes and the activities of man at the subject Site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this document may, therefore, be invalidated over time, in part or in whole, by changes over which the author has no control.

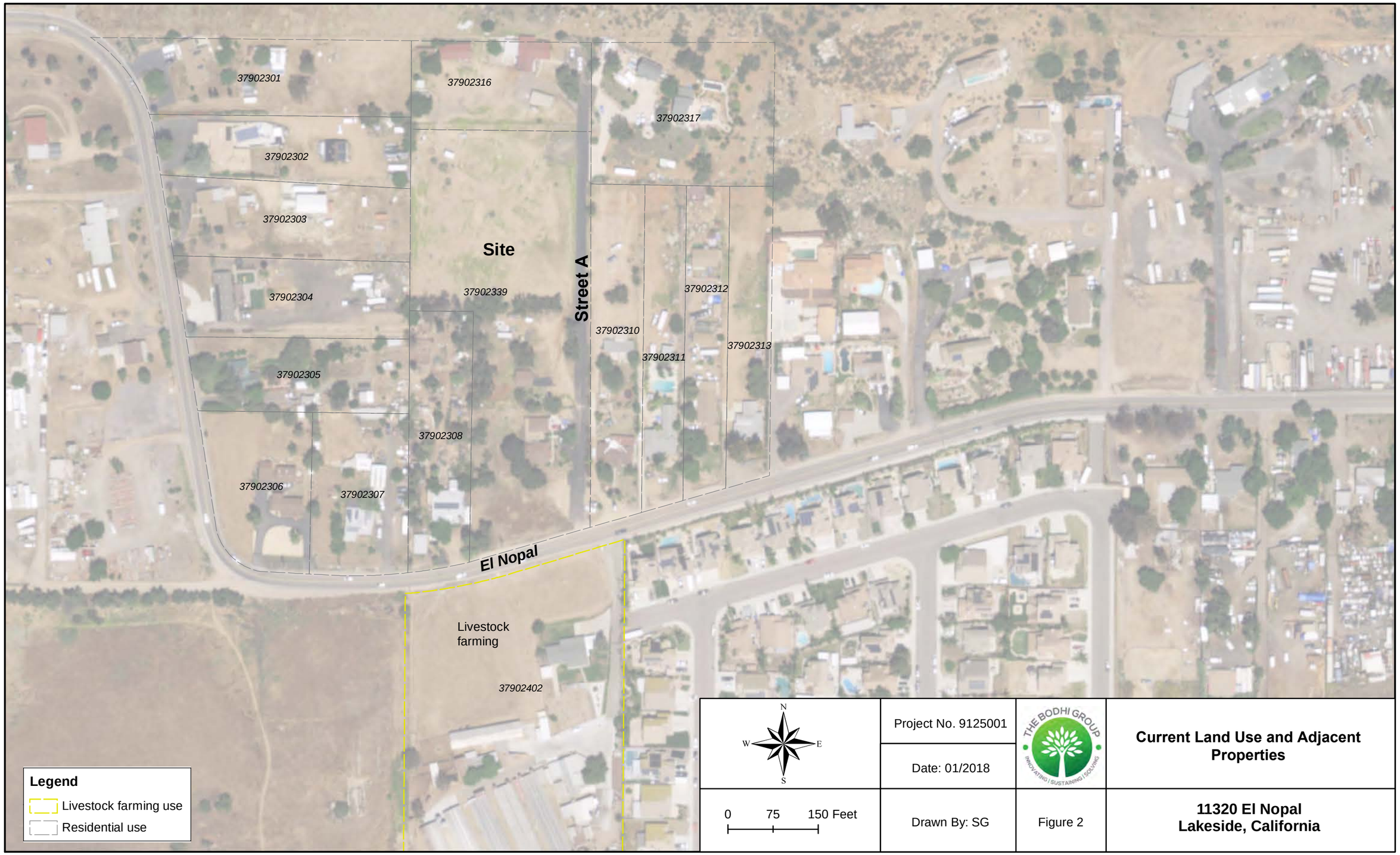
This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. The author should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

Data presented in this report should not be relied on for bidding purposes. This document is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this document by parties other than the client is undertaken at said parties' sole risk.

Figures



0 1,000 2,000 Feet	Project No. 9125001	THE BODHI GROUP INNOVATING | SUSTAINING | SOLVING	**Site Location Map**
Figure 1	01/2018		**11320 El Nopal Lakeside, California**



N W E S	Project No. 9125001	THE BODHI GROUP INNOVATING | SUSTAINING | SOLVING	**Current Land Use and Adjacent Properties**
	Date: 01/2018		
0 75 150 Feet	Drawn By: SG	Figure 2	**11320 El Nopal Lakeside, California**

Appendix A

Environmental Data Resources, Inc. (EDR) Report

El Nopal

11320 El Nopal

Lakeside, CA 92040

Inquiry Number: 5144483.9

December 26, 2017

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

12/26/17

Site Name:

El Nopal
11320 El Nopal
Lakeside, CA 92040
EDR Inquiry # 5144483.9

Client Name:

Bodhi Group
1076 Broadway, Suite B
EL CAJON, CA 92021
Contact: Sree Gopinath

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1994	1"=500'	Acquisition Date: May 31, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 14, 1989	USDA
1985	1"=500'	Flight Date: July 29, 1985	USDA
1979	1"=500'	Flight Date: January 27, 1979	EDR Proprietary Landiscor
1970	1"=500'	Flight Date: March 06, 1970	EDR Proprietary Landiscor
1966	1"=500'	Flight Date: November 02, 1966	USGS
1964	1"=500'	Flight Date: April 08, 1964	USDA
1953	1"=500'	Flight Date: April 14, 1953	USDA
1949	1"=500'	Flight Date: February 16, 1949	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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INQUIRY #: 5144483.9
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 5144483.9
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 5144483.9
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 5144483.9
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 5144483.9
YEAR: 1994
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EDR


INQUIRY #: 5144483.9
YEAR: 1989
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EDR

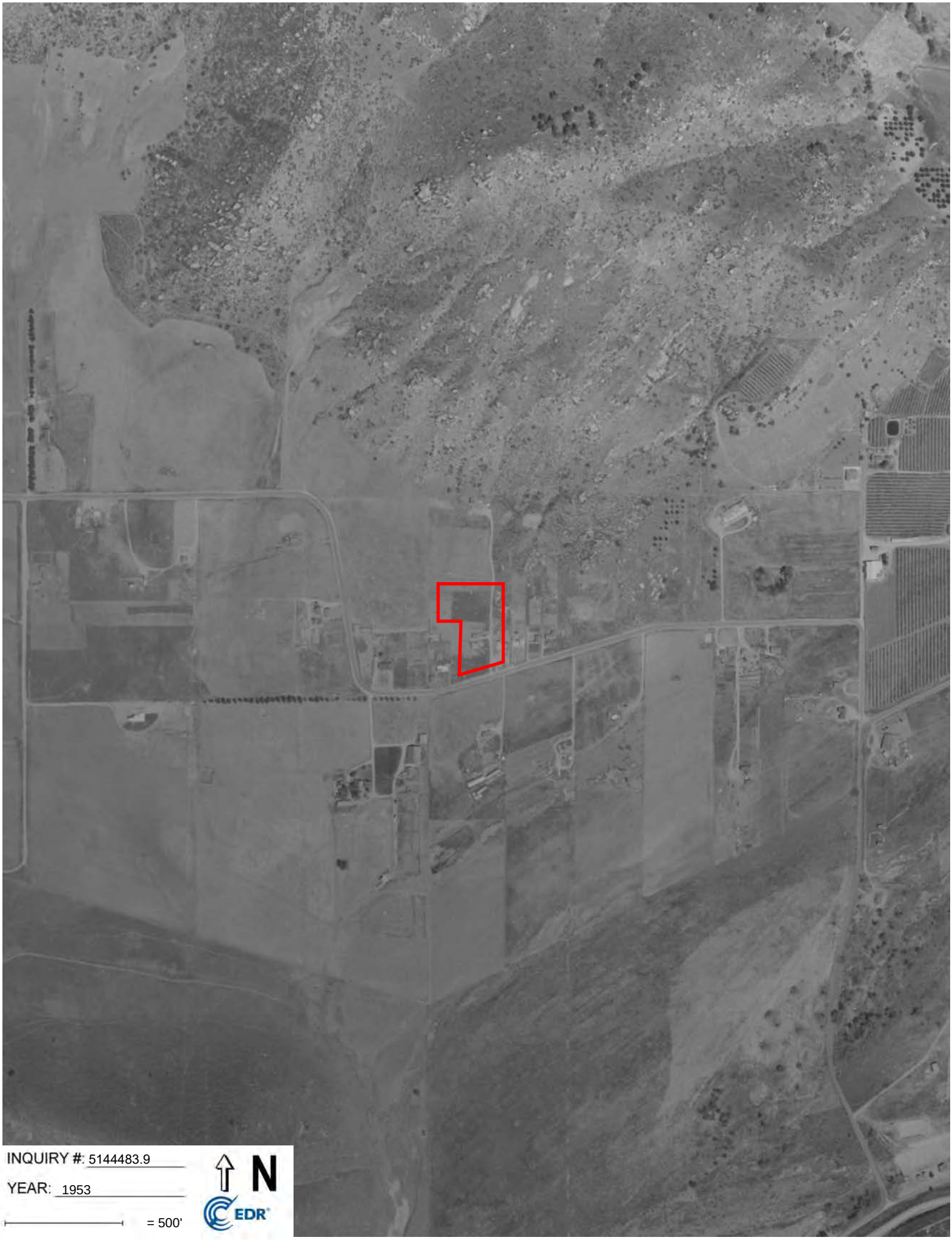

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= 500'
N
EDR


INQUIRY #: 5144483.9
YEAR: 1979
= 500'
N
EDR


INQUIRY #: 5144483.9
YEAR: 1970
= 500'
N
EDR


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YEAR: 1966
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EDR


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EDR



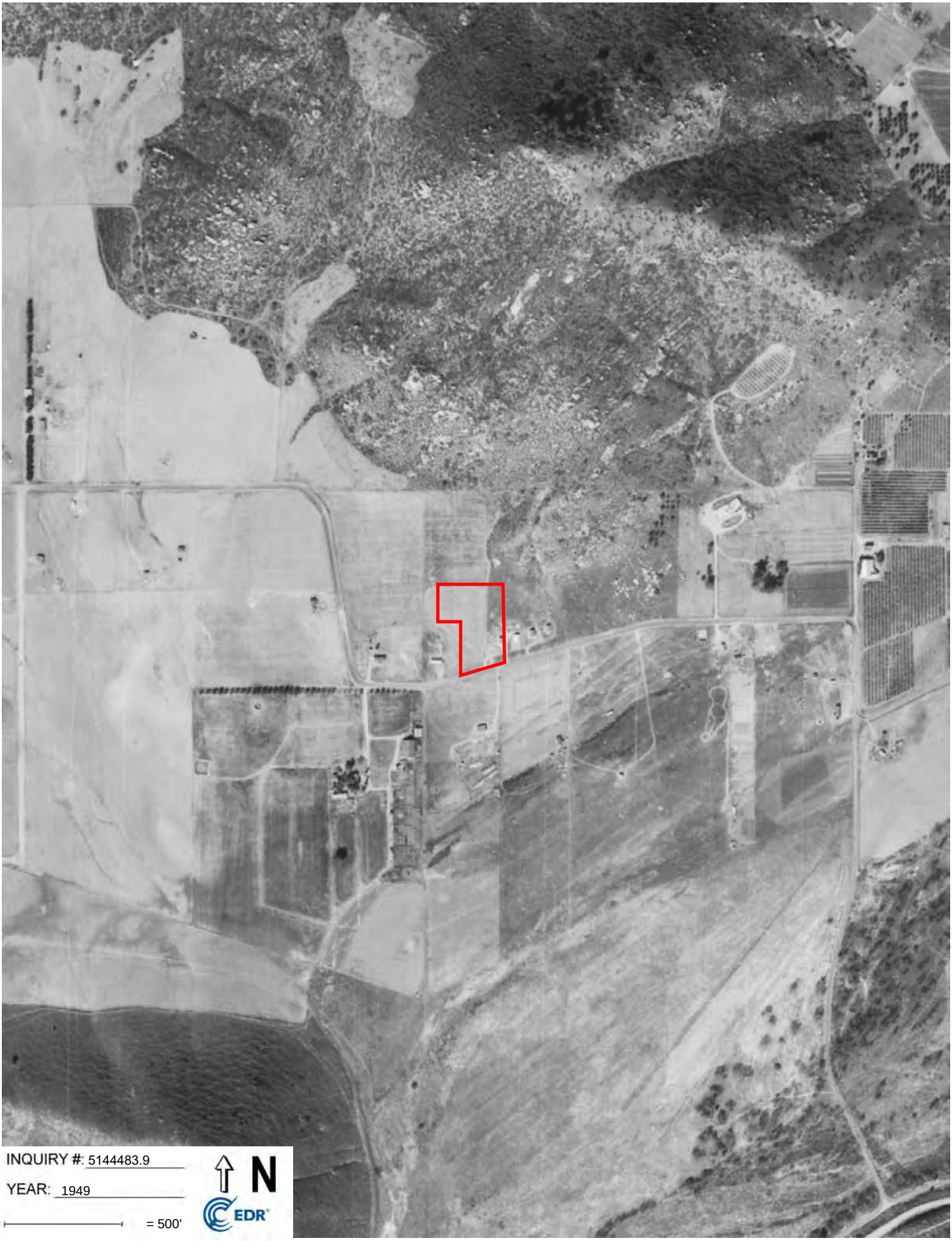
INQUIRY #: 5144483.9

YEAR: 1953

= 500'

N

EDR


INQUIRY #: 5144483.9
YEAR: 1949
= 500'
N
EDR

El Nopal
11320 El Nopal
Lakeside, CA 92040

Inquiry Number: 5144483.5
December 27, 2017

The EDR-City Directory Image Report

Environmental Data Resources Inc
6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2014	☑	☐	EDR Digital Archive
2010	☑	☐	EDR Digital Archive
2005	☑	☐	EDR Digital Archive
2000	☑	☐	EDR Digital Archive
1995	☑	☐	EDR Digital Archive
1992	☑	☐	EDR Digital Archive
1985	☑	☐	Haines Criss-Cross Directory
1980	☐	☐	Haines Criss-Cross Directory
1976	☐	☐	Haines Criss-Cross Directory
1970	☐	☐	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

11320 El Nopal
Lakeside, CA 92040

Year	*CD Image*	*Source*	
EL NOPAL			
2014	pg A1	EDR Digital Archive	
2010	pg A2	EDR Digital Archive	
2005	pg A3	EDR Digital Archive	
2000	pg A4	EDR Digital Archive	
1995	pg A5	EDR Digital Archive	
1992	pg A6	EDR Digital Archive	
1985	pg A7	Haines Criss-Cross Directory	
1980	-	Haines Criss-Cross Directory	Street not listed in Source
1976	-	Haines Criss-Cross Directory	Street not listed in Source
1970	-	Haines Criss-Cross Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

EL NOPAL 2014

11154	KRAFT, RICK N
11166	PELLETIER, RON L
	TEMPERTURE DSIGN ENRGY SYSTEMS
11169	HEWITT, ROBERT G
11172	ENNIS, RANDY M
11175	CABLE, SHANE A
11210	MACLACHLAN, DOUG M
11213	COX, DAVID J
	CRIST C E INC
	EXTREME ROOFING SAN DIEGO INC
11230	SEJKORA, THOMAS L
11245	PERRY, HUBERT M
11259	LATINO PROMOTIONS
	MARRON, JORGE R
11260	HILLIKER, CINDY
11264	WOLIUNG, RALPH E
11278	KAHLER, JOSEPH B
11320	BUTLER, GENE D
11324	FLANAGAN, SCOTT M
11326	HEXIMER, SHELLY L
11329	CRUZ, BENITO A
	HILLIKERS RANCH FRESH EGGS
11330	DAVID MORRIS CONSTRUCTION
	MORRIS, DAVID C
11338	MCLEOD, CHARLES E
	MSM CONSULTING
	STEVENS, NORMA J
11342	BOND, MICHAEL
11354	JIM STATON CONSTRUCTION
11382	SMITH MICHAEL ELIZABETH F

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

EL NOPAL 2010

11154	KRAFT, NONA L
11166	PELLETIER, RON L
	ROBERTS GROUP - LLC
	TEMPERTURE DSIGN ENRGY SYSTEMS
11169	HEWITT, ROBERT G
11172	ENNIS, RANDY M
11175	REHBEIN, JOY A
11210	MACLACHLAN, DOUG M
11213	CRIST C E INC
	OCCUPANT UNKNOWN,
11230	SEJKORA, THOMAS L
11245	PERRY, HUBERT M
11259	LATINO PROMOTIONS
	MARRON, JORGE R
11260	HILLIKER, FRANK I
11264	WOLIUNG, RALPH E
11278	KAHLER, JEFFREY A
11320	PARROT, LARRY D
11322	ACTION ANDYS AUTO TECH
	OCCUPANT UNKNOWN,
11324	OCCUPANT UNKNOWN,
11326	HEXIMER, SHELLY L
11329	CRUZ, BENITO
	HILLIKERS RANCH FRESH EGGS
11330	DAVID MORRIS CONSTRUCTION
	MORRIS, DAVID C
11338	CHUCKS METAL DETECTORS
	MCLEOD, CHARLES E
11342	BURKHART, DAVID D
11348	MIX IT UP FASHIONS
	RELISH FASHIONS LLC
	VIDOVICH FAMILY TRUST
11354	JIM STATON CONSTRUCTION
11382	SMITH MICHAEL ELIZABETH F

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

EL NOPAL 2005

11154	KRAFT, NONA L
11166	BOG BUILDERS INC
	OBNEY, MARK E
	PINPOINT PEST CONTROL INC
11169	HEWITT, ROBERT G
11172	ENNIS, RANDY M
11175	REHBEIN, HARRY H
11210	OCCUPANT UNKNOWN,
11213	CRIST C E INC
	CRIST, DONALD D
11230	SEJKORA, THOMAS L
11245	OCCUPANT UNKNOWN,
11259	MARRON, JORGE
11260	OCCUPANT UNKNOWN,
11278	OCCUPANT UNKNOWN,
11320	PARROT, LARRY D
11322	WELCH, ANDREW R
11324	EMERY FAMILY TRUST OF 198
11326	DAVIS, CHARLES F
11329	HILLIKER, HAROLD I
	HILLIKERS RANCH FRESH EGGS
11330	HERNANDEZ JESSE
	MORRIS, DAVID C
11338	MCLEOD, CHARLES E
	STEVENS, NORMA J
11342	BURKHART, DAVID D
11348	VIDOVICH FAMILY TRUST
11374	ROYAL BLUE POOLS INC
11427	BLACKIES TRUCKING

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

EL NOPAL 2000

11154	KRAFT, NONA L
11166	BOG BUILDERS INC
	HELEN BROWNING FOUNDATION INC
	PEGG, LARRY J
11169	OCCUPANT UNKNOWN,
11172	ENNISS, RANDY M
11175	REHBEIN, HARRY H
11210	OCCUPANT UNKNOWN,
11213	C E CRIST INC
	CRIST, CLIFF E
11230	SEJKORA, THOMAS
11245	PERRY, TODD
11259	LOPEZ, JOE J
11260	OCCUPANT UNKNOWN,
11278	KAHLER, COLLEEN
11318	MECSEJI, KEVIN
11320	OCCUPANT UNKNOWN,
11322	WELCH, KENNETH M
11324	EMERY, RICHARD W
11326	OCCUPANT UNKNOWN,
11329	HILLIKER FRANK H
	HILLIKER, JOSEPH
11330	MORRIS, MISTI
11331	OCCUPANT UNKNOWN,
11333	MUNSON, DAWN
11342	OCCUPANT UNKNOWN,
11343	OCCUPANT UNKNOWN,
11345	OCCUPANT UNKNOWN,
11348	VIDOVICH FAMILY LTD PARTN
11415	FIREWORKS & STAGE FX AMERICA

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

EL NOPAL 1995

11166	AASE, GORDON F
11169	HEWITT, JOHN C
11172	OCCUPANT UNKNOWNN
11175	REHBEIN, HARRY H
11213	C E CRIST INC
	CRIST, CLIFF E
11230	SEJKORA, THOMAS
11245	BROWN, IRA E
11260	HILLIKER, HAROLD I
11264	MELANSON, J
11278	OCCUPANT UNKNOWNN
11320	OCCUPANT UNKNOWNN
11322	WELCH, KENNETH M
11324	EMERY, THOMAS P
11326	GRUNER, BOB
11329	HILLIKER FRANK H
	HILLIKER, JOSEPH
11331	ROOT, DONALD
11342	OCCUPANT UNKNOWNN
11343	OCCUPANT UNKNOWNN
11345	MONTGOMERY, H A
11347	OCCUPANT UNKNOWNN

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

EL NOPAL 1992

11108	MTN VIEW CHRISTIAN PRESCHOOL
11166	AASE, GORDON F
11169	HEWITT, JOHN C
11175	REHBEIN, HARRY H
11213	ANDREWS, ANDY
	C E CRIST INC
	CRIST, CLIFF E
11230	SEJKORA, THOMAS
11245	BROWN, IRA E
11260	HILLIKER, HAROLD I
11320	ROYS LEATHER & GIFTS
11322	WELCH, KENNETH M
11324	EMERY, THOMAS P
11326	GRUNER, BOB
11329	HILLIKER FRANK H
	HILLIKER, JOSEPH
11331	ROOT, DONALD
11343	HOSE, VINCE
11374	PALMERS ENGINEERING
11436	COWBOY JACK

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

EL NOPAL 1985

11210	YEADON CHUCK	562-2907	+5
	YEADON WM D	562-6205	+5
11213	CRIST C E CONSTR	449-4596	+5
	CRIST CLIFF E	562-8836	4
11230	SEJKORA EMIL T	448-5389	
11245	BROWN IRA E	448-3788	
11259	ZARNES MARINA	562-9717	3
11260	HILLIKER H I	449-0096	
11264	GREEN PINE ACRES	449-4590	
	HARMON WARREN E	449-4590	
	YOUTSEY C A	448-9204	+5
11278	XXXX	00	
11322	WELCH KENNETH M	448-0121	
11324	EMERY THOS P	448-3195	2
11326	GRUNER BOB	449-9234	1
11329	HILLIKER JOSEPHINE	562-1267	9
	HILLIKERS POULTRY	448-3683	
11330	XXXX	00	
11331	XXXX	00	
11338	AMES GILBERT J	448-4939	+5
11342	BUSHREE DAVID A	562-2376	9
11343	BREEDEN DENNIS R	562-3805	+5
11345	WILLIAMS TIM	448-9519	+5
11347	XXXX	00	
11349	ANDERSEN K A	562-8976	+5
11354	SUTTON JAS	562-2855	+5
11374	PALMER TONY	448-6184	+5
11384	SMITH MIKE B	562-7320	3
11385	PINERY TREE FARM	449-4415	+5
11427	SHAMOUN HANI	562-5361	1

El Nopal
11320 El Nopal
Lakeside, CA 92040

Inquiry Number: 5144483.2s
December 22, 2017

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

11320 EL NOPAL
LAKESIDE, CA 92040

COORDINATES

Latitude (North):	32.8617150 - 32° 51' 42.17''
Longitude (West):	116.9530280 - 116° 57' 10.90''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	504394.8
UTM Y (Meters):	3635767.2
Elevation:	399 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5622884 EL CAJON, CA
Version Date:	2012
North Map:	5622916 SAN VICENTE RESERVOIR, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140530
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
11320 EL NOPAL
LAKESIDE, CA 92040

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	QUALITY RECYCLING IN	10197 RIVERFORD RD S	SWRCY	Lower	1695, 0.321, East
A2	LAKESIDE LAND CO	1161 RIVERSIDE DR	WMUDS/SWAT, LDS, ENF	Lower	1727, 0.327, ESE
3	LAKESIDE LAND COMPAN	10101 RIVERFORD RD	SWF/LF, San Diego Co. HMMD, ENF, NPDES	Lower	1773, 0.336, ESE
4	WOODWARD SAND CO	9891 RIVERFORD RD	SAN DIEGO CO. SAM, SLIC, San Diego Co. HMMD	Lower	2481, 0.470, SE
5	KETEMA PROCESS EQUIP	9484 MISSION PARK PL	ENVIROSTOR	Lower	4611, 0.873, SSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROL ---------- Sites with Institutional Controls

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal leaking storage tank lists

LUST ---------- Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
UST ---------- Active UST Facilities
AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
San Diego Co. HMMD ---------- Hazardous Materials Management Division Database
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register

EXECUTIVE SUMMARY

Local Lists of Registered Storage Tanks

SWEEPS UST	SWEEPS UST Listing
HIST UST	Hazardous Substance Storage Container Database
CA FID UST	Facility Inventory Database

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File

EXECUTIVE SUMMARY

ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
ICE	ICE
HIST CORTESE	Hazardous Waste & Substance Site List
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
UIC	UIC Listing
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	Recovered Government Archive Solid Waste Facilities List
RGA LUST	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 10/30/2017 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
KETEMA PROCESS EQUIP Facility Id: 71003382 Status: No Action Required	9484 MISSION PARK PL	SSW 1/2 - 1 (0.873 mi.)	5	39

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAKESIDE LAND COMPAN Database: SAN DIEGO CO. LF, Date of Government Version: 10/31/2015 Operational Status: ACTIVE Facility Status: ACTIVE SITES	***10101 RIVERFORD RD***	***ESE 1/4 - 1/2 (0.336 mi.)***	***3***	***11***

State and tribal leaking storage tank lists

SAN DIEGO CO. SAM: The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

A review of the SAN DIEGO CO. SAM list, as provided by EDR, and dated 03/23/2010 has revealed that there is 1 SAN DIEGO CO. SAM site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WOODWARD SAND CO	***9891 RIVERFORD RD***	***SE 1/4 - 1/2 (0.470 mi.)***	***4***	***37***

Case Number: H06670-001
Case Number: H06670-002
Facility Status: Leak Being Confirmed
Facility Status: Closed Case

SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the SLIC list, as provided by EDR, has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WOODWARD SAND CO	***9891 RIVERFORD RD***	***SE 1/4 - 1/2 (0.470 mi.)***	***4***	***37***
Database: SLIC, Date of Government Version: 09/11/2017 Facility Status: Completed - Case Closed Global Id: T0608176918 Global Id: T0608160887				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is 1 WMUDS/SWAT site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LAKESIDE LAND CO	***1161 RIVERSIDE DR***	***ESE 1/4 - 1/2 (0.327 mi.)***	***A2***	***8***

SWRCY: A listing of recycling facilities in California.

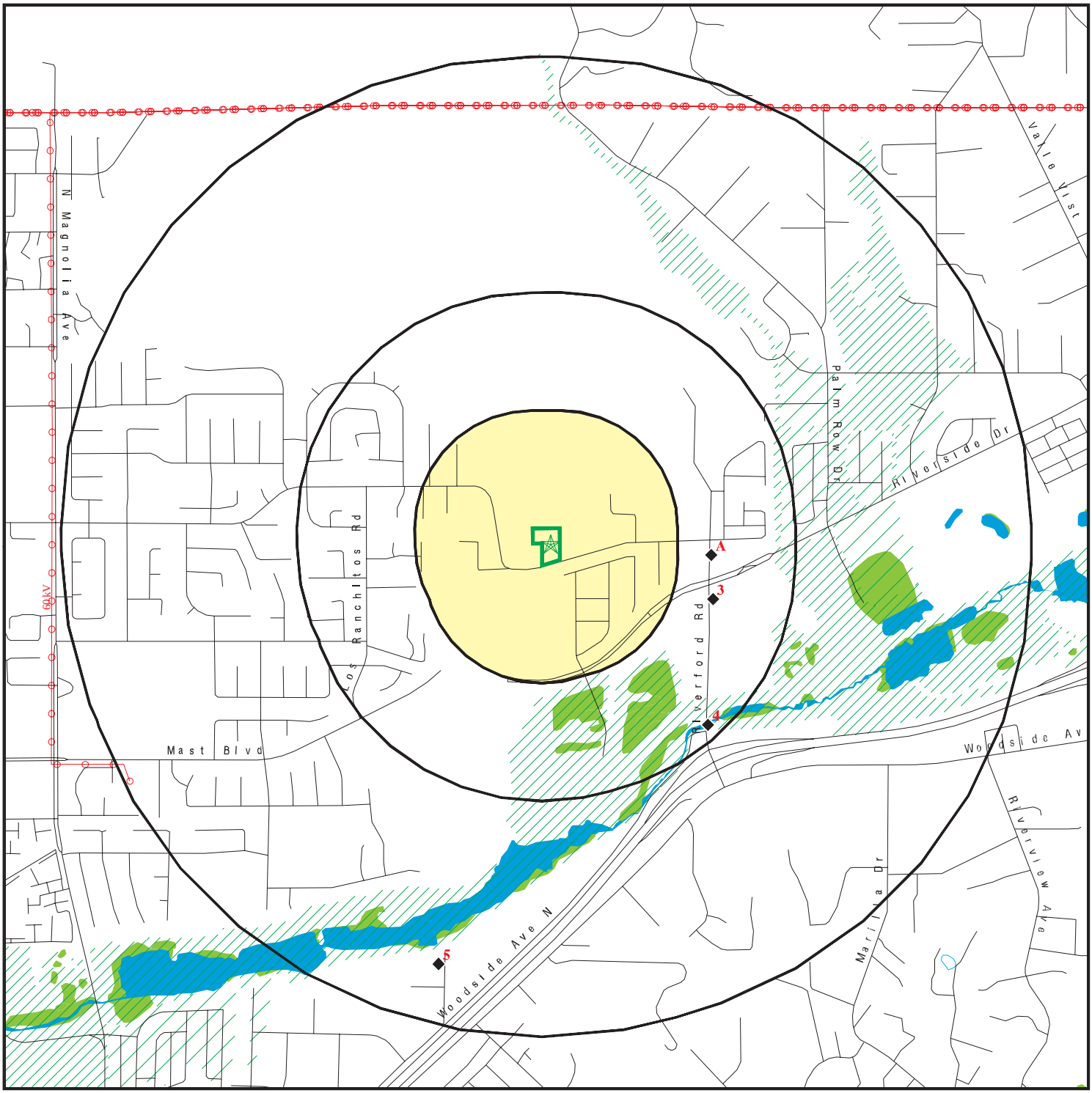
A review of the SWRCY list, as provided by EDR, and dated 09/11/2017 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
QUALITY RECYCLING IN Cert Id: RC189454.001	10197 RIVERFORD RD S	E 1/4 - 1/2 (0.321 mi.)	A1	8

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5144483.2S



0 1/4 1/2 1 Miles

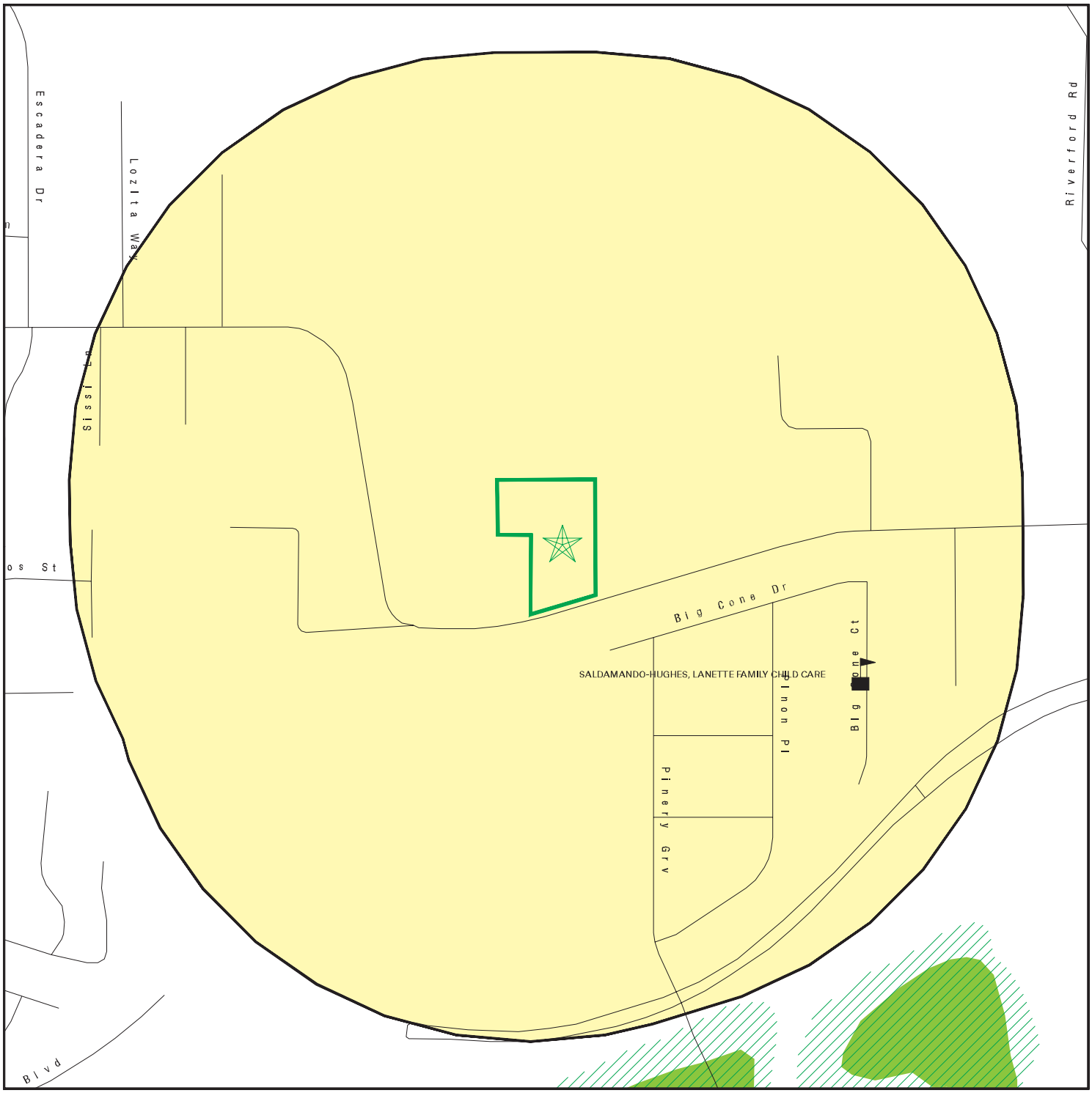
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Upgradient Area
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: El Nopal	CLIENT: Bodhi Group
ADDRESS: 11320 El Nopal Lakeside CA 92040	CONTACT: Sree Gopinath
LAT/LONG: 32.861715 / 116.953028	INQUIRY #: 5144483.2s DATE: December 22, 2017 2:29 pm

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DETAIL MAP - 5144483.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: El Nopal	CLIENT: Bodhi Group
ADDRESS: 11320 El Nopal Lakeside CA 92040	CONTACT: Sree Gopinath
LAT/LONG: 32.861715 / 116.953028	INQUIRY #: 5144483.2s DATE: December 22, 2017 2:30 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	1	NR	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	1	NR	NR	1
State and tribal leaking storage tank lists								
SAN DIEGO CO. SAM	0.500		0	0	1	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	0	1	NR	NR	1
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	1	NR	NR	1
SWRCY	0.500		0	0	1	NR	NR	1
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
San Diego Co. HMMD	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	0	0	5	1	0	6

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **QUALITY RECYCLING INC** **SWRCY** **S113894350**
East **10197 RIVERFORD RD STE A** **N/A**
1/4-1/2 **LAKESIDE, CA 92040**
0.321 mi.
1695 ft. **Site 1 of 2 in cluster A**

Relative:
Lower

Actual:
376 ft.

SWRCY:

Reg Id:	189454
Cert Id:	RC189454.001
Mailing Address:	2181 Weiss Way
Mailing City:	Escondido
Mailing State:	CA
Mailing Zip Code:	92026
Website:	Not reported
Email:	Not reported
Phone Number:	(619) 596-2267
Grand Father:	N
Rural:	N
Operation Begin Date:	07/01/2013
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	9:00 am - 5:00 pm
Tuesday Hours Of Operation:	9:00 am - 5:00 pm
Wednesday Hours Of Operation:	9:00 am - 5:00 pm
Thursday Hours Of Operation:	9:00 am - 5:00 pm
Friday Hours Of Operation:	9:00 am - 5:00 pm
Saturday Hours Of Operation:	8:00 am - 3:00 pm
Sunday Hours Of Operation:	8:00 am - 3:00 pm
Organization ID:	188297
Organization Name:	Quality Recycling Inc

A2 **LAKESIDE LAND CO** **WMUDS/SWAT** **S103866781**
ESE **1161 RIVERSIDE DR** **LDS** **N/A**
1/4-1/2 **LAKESIDE CA, CA 92040** **ENF**
0.327 mi.
1727 ft. **Site 2 of 2 in cluster A**

Relative:
Lower

Actual:
376 ft.

WMUDS/SWAT:

Edit Date:	Not reported
Complexity:	Not reported
Primary Waste:	CNSOIL
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Base Meridian:	Not reported
NPID:	Not reported
Tonnage:	0
Regional Board ID:	Not reported
Municipal Solid Waste:	False
Superorder:	False
Open To Public:	False
Waste List:	False
Agency Type:	Private
Agency Name:	CLEANSOILS CALIFORNIA INC

LAKESIDE LAND CO (Continued) **S103866781**

Agency Department:	Not reported
Agency Address:	903 E WHITE LN
Agency City,St,Zip:	BAKERSFIELD CA 933075012
Agency Contact:	JAMES K POUCHER
Agency Telephone:	8053972740
Land Owner Name:	Not reported
Land Owner Address:	Not reported
Land Owner City,St,Zip:	Not reported
Land Owner Contact:	Not reported
Land Owner Phone:	Not reported
Region:	9
Facility Type:	Solid Waste Site-Class II - A solid waste facility at which designated wastes may be treated or stored.
Facility Description:	Not reported
Facility Telephone:	Not reported
SWAT Facility Name:	Not reported
Primary SIC:	4953
Secondary SIC:	Not reported
Comments:	Not reported
Last Facility Editors:	Not reported
Waste Discharge System:	True
Solid Waste Assessment Test Program:	False
Toxic Pits Cleanup Act Program:	False
Resource Conservation Recovery Act:	False
Department of Defence:	False
Solid Waste Assessment Test Program:	Not reported
Threat to Water Quality:	Not reported
Sub Chapter 15:	True
Regional Board Project Officer:	GTG
Number of WMUDS at Facility:	0
Section Range:	Not reported
RCRA Facility:	No
Waste Discharge Requirements:	H
Self-Monitoring Rept. Frequency:	Irregular Submittal
Waste Discharge System ID:	9 000000667
Solid Waste Information ID:	Not reported

LDS:

Global Id:	L10006905197
Latitude:	32.86365
Longitude:	-116.9396
Case Type:	Land Disposal Site
Status:	Open - Verification Monitoring
Status Date:	04/06/1990
Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Caseworker:	LS
Local Agency:	Not reported
RB Case Number:	9 000000667
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Not reported
EDR Link ID:	L10006905197
Potential Contaminants of Concern:	Not reported
Site History:	San Diego Water Board issued waste discharge requirements (Order 92-14 and addendum 1) to The Caster Group for operations at Woodward Sand Pit Reclamation Project in Lakeside. The WDRs are available from

LAKESIDE LAND CO (Continued) **S103866781**

the San Diego Water Board web page & under "Site Documents" tab in the Geotracker database.

Click here to access the California GeoTracker records for this facility:

ENF:

Region:	9
Facility Id:	236322
Agency Name:	Cleansoils California Inc
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class II - designated wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.860695
Place Longitude:	-116.947118
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	DISCHLND
Program Category1:	UNREGS
Program Category2:	UNREGS
# Of Programs:	1
WDID:	9 000000667
Reg Measure Id:	161434
Reg Measure Type:	Unregulated
Region:	9
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	07/14/2011

LAKESIDE LAND CO (Continued) **S103866781**

Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	219811
Region:	9
Order / Resolution Number:	LT950516
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	05/16/1995
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	SEL LT950516 Cleansoils Calif Inc, Lakeside Land
Description:	AFFIRMED C & A ORDER NO. 95-64
Program:	DISCHLND
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

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3 **LAKESIDE LAND COMPANY** **SWF/LF** **S108211721**
ESE **10101 RIVERFORD RD** **San Diego Co. HMMD** **N/A**
1/4-1/2 **LAKESIDE, CA 92040** **ENF**
0.336 mi. **NPDES**
1773 ft.

Relative:
Lower

Actual:
376 ft.

SAN DIEGO CO. LF:

Facility Status:	ACTIVE SITES
Operational Status:	ACTIVE
Region:	SAN DIEGO
SWIS Number:	37-AA-0974
Owner Name:	LAKESIDE LAND COMPANY
Operator:	LANDSIDE LAND COMPANY
Facility Type:	LIMITED VOLUME TRANSFER OPERATIONS/ SEALED CONTAINER TRANSFER OPERATION/ SMALL VOLUME CDI PROCESSING/ENGINEERING FILL
Facility Type2:	ID ENGINEERED FILL
PERMTIER:	EA NOTIFICATION
Inspection Frequency:	QUARTERLY

HMMD SAN DIEGO:

LAKESIDE LAND COMPANY (Continued) **S108211721**

Permit Number:	135068
Business Type:	6HK70
EPA Id Number:	CAL000255249
APN:	379-143-02-00
Last HMMD Inspection:	02/19/2010
Facility Telephone:	619-449-9083
Permit Status:	OPEN
Permit Expiration:	01/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	LAKESIDE LAND CO
Facility Mailing Address:	10101 RIVERFORD RD
Facility Mailing City:	LAKESIDE
Facility Mailing State:	CA
Facility Mailing Zip:	92040-
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Y
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	74-86-2
Name:	ACETYLENE GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	ANTIFREEZE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	7440-37-1
Name:	ARGON GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	CHRONIC

LAKESIDE LAND COMPANY (Continued) **S108211721**

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	GASOLINE
Other Information:	REGULAR UNLEADED
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	8002-05-9
Name:	OILS, LUBRICATING
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	74-98-6
Name:	PROPANE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information:	PARTS CLEANER SLUDGE FILTERS WITH WASTE ABSORBENT
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	Not reported
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	Not reported

LAKESIDE LAND COMPANY (Continued) **S108211721**

Name: WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information: ANTIFREEZE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information: WASTE DIESEL FUEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: CONTAM.DIRT W/DIESEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: WASTE ABSORBANT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: ASBURY
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 09/25/2006
Violation Code: 6HV0220
Violation: SPENT LEAD ACID BATTERY IMPROP. MANAGED
Violation Citation: Spent lead acid batteries not properly managed. 66266.81
Activity: ACTIVE

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 09/25/2006
Violation Code: 6HV0224
Violation: MISMANAGED EMPTY CONTAINERS >5GALS.
Violation Citation: Failed to mark date on empty container larger than 5 gallons and/or

LAKESIDE LAND COMPANY (Continued) **S108211721**

manage it within one year. 66261.7(e) & (f).
Activity: ACTIVE

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 06/23/2004
Violation Code: 6HV1006
Violation: HMBP: INVENTORY INADEQUATE
Violation Citation: Business Plan inventory does not list all hazardous materials on site in disclosable quantities. HSC 25504(a),25503.5
Activity: ACTIVE

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 06/23/2004
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Permit Number: 135068
Business Type: 6HK70
EPA Id Number: CAL000255249
APN: 379-143-02-00
Last HMMD Inspection: 02/19/2010
Facility Telephone: 619-449-9083
Permit Status: OPEN
Permit Expiration: 01/31/2013
Date Last Updated: 11/02/2012
Facility Owner: LAKESIDE LAND CO
Facility Mailing Address: 10101 RIVERFORD RD
Facility Mailing City: LAKESIDE
Facility Mailing State: CA
Facility Mailing Zip: 92040-
UST Owner: Not reported
Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Not reported
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Inventory Active Permits (not SQG Medical):
Permit Number: 135068
Update Date: 11/02/2012
Case Number: 74-86-2
Name: ACETYLENE GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Permit Number: 135068
Update Date: 11/02/2012
Case Number: MIXTURE

LAKESIDE LAND COMPANY (Continued) **S108211721**

Name: ANTIFREEZE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: 7440-37-1
Name: ARGON GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: 68476-34-6
Name: DIESEL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: CHRONIC

Permit Number: 135068
Update Date: 11/02/2012
Case Number: MIXTURE
Name: GASOLINE
Other Information: REGULAR UNLEADED
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Permit Number: 135068
Update Date: 11/02/2012
Case Number: 8002-05-9
Name: OILS, LUBRICATING
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Permit Number: 135068
Update Date: 11/02/2012
Case Number: 7782-44-7
Name: OXYGEN GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Permit Number: 135068
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE
Other Information: Not reported
Material Waste: Material

LAKESIDE LAND COMPANY (Continued) **S108211721**

Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information: PARTS CLEANER SLUDGE FILTERS WITH WASTE ABSORBENT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information: ANTIFREEZE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information: WASTE DIESEL FUEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: CONTAM.DIRT W/DIESEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: WASTE ABSORBANT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

LAKESIDE LAND COMPANY (Continued) **S108211721**

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 888 USED OIL FILTERS
Other Information:	ASBURY
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Violations Active Permits:

Permit Number:	135068
Update Date:	11/02/2012
Inspection Date:	09/25/2006
Violation Code:	6HV0220
Violation:	SPENT LEAD ACID BATTERY IMPROP. MANAGED
Violation Citation:	Spent lead acid batteries not properly managed. 66266.81
Activity:	ACTIVE

Permit Number:	135068
Update Date:	11/02/2012
Inspection Date:	09/25/2006
Violation Code:	6HV0224
Violation:	MISMANAGED EMPTY CONTAINERS >5GALS.
Violation Citation:	Failed to mark date on empty container larger than 5 gallons and/or manage it within one year. 66261.7(e) & (f).
Activity:	ACTIVE

Permit Number:	135068
Update Date:	11/02/2012
Inspection Date:	06/23/2004
Violation Code:	6HV1006
Violation:	HMBP: INVENTORY INADEQUATE
Violation Citation:	Business Plan inventory does not list all hazardous materials on site in disclosable quantities. HSC 25504(a),25503.5
Activity:	ACTIVE

Permit Number:	135068
Update Date:	11/02/2012
Inspection Date:	06/23/2004
Violation Code:	6HV1009
Violation:	HMBP: INADEQUATE SITE MAP
Violation Citation:	Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity:	ACTIVE

Permit Number:	135068
Business Type:	6HK70
EPA Id Number:	CAL000255249
APN:	379-143-02-00
Last HMMD Inspection:	02/19/2010
Facility Telephone:	619-449-9083
Permit Status:	OPEN
Permit Expiration:	01/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	LAKESIDE LAND CO

LAKESIDE LAND COMPANY (Continued) **S108211721**

Facility Mailing Address:	10101 RIVERFORD RD
Facility Mailing City:	LAKESIDE
Facility Mailing State:	CA
Facility Mailing Zip:	92040-
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	74-86-2
Name:	ACETYLENE GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	ANTIFREEZE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	7440-37-1
Name:	ARGON GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	CHRONIC

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	GASOLINE
Other Information:	REGULAR UNLEADED
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

LAKESIDE LAND COMPANY (Continued) **S108211721**

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	8002-05-9
Name:	OILS, LUBRICATING
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	74-98-6
Name:	PROPANE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information:	PARTS CLEANER SLUDGE FILTERS WITH WASTE ABSORBENT
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	Not reported
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information:	ANTIFREEZE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	Not reported

LAKESIDE LAND COMPANY (Continued) **S108211721**

Name: WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information: WASTE DIESEL FUEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: CONTAM.DIRT W/DIESEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: WASTE ABSORBANT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: ASBURY
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 09/25/2006
Violation Code: 6HV0220
Violation: SPENT LEAD ACID BATTERY IMPROP. MANAGED
Violation Citation: Spent lead acid batteries not properly managed. 66266.81
Activity: ACTIVE

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 09/25/2006
Violation Code: 6HV0224
Violation: MISMANAGED EMPTY CONTAINERS >5GALS.
Violation Citation: Failed to mark date on empty container larger than 5 gallons and/or manage it within one year. 66261.7(e) & (f).
Activity: ACTIVE

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 06/23/2004
Violation Code: 6HV1006
Violation: HMBP: INVENTORY INADEQUATE
Violation Citation: Business Plan inventory does not list all hazardous materials on site

LAKESIDE LAND COMPANY (Continued) **S108211721**

in disclosable quantities. HSC 25504(a),25503.5
Activity: ACTIVE

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 06/23/2004
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Permit Number: 214182
Business Type: 6HK18
EPA Id Number: Not reported
APN: 379-143-02-00
Last HMMD Inspection: 02/23/2011
Facility Telephone: 619-561-4748
Permit Status: OPEN
Permit Expiration: 06/30/2013
Date Last Updated: 11/02/2012
Facility Owner: GRAVEL 'N GRIT, INC
Facility Mailing Address: 244 PILE ST
Facility Mailing City: RAMONA
Facility Mailing State: CA
Facility Mailing Zip: 92065
UST Owner: Not reported
Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Inventory Active Permits (not SQG Medical):
Permit Number: 214182
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: USED OIL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 214182
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 214182

LAKESIDE LAND COMPANY (Continued) **S108211721**

Update Date:	11/02/2012
Inspection Date:	02/23/2011
Violation Code:	6HV0131
Violation:	UPF Permit NOT OBTAINED for HAZWASTE
Violation Citation:	A Unified Program Facility permit has not been obtained for the generation of hazardous waste. 68.905
Activity:	ACTIVE

Permit Number:	135068
Business Type:	6HK70
EPA Id Number:	CAL000255249
APN:	379-143-02-00
Last HMMD Inspection:	02/19/2010
Facility Telephone:	619-449-9083
Permit Status:	OPEN
Permit Expiration:	01/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	LAKESIDE LAND CO
Facility Mailing Address:	10101 RIVERFORD RD
Facility Mailing City:	LAKESIDE
Facility Mailing State:	CA
Facility Mailing Zip:	92040-
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	74-86-2
Name:	ACETYLENE GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	ANTIFREEZE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	7440-37-1
Name:	ARGON GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

LAKESIDE LAND COMPANY (Continued) **S108211721**

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	CHRONIC

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	GASOLINE
Other Information:	REGULAR UNLEADED
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	8002-05-9
Name:	OILS, LUBRICATING
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	74-98-6
Name:	PROPANE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information:	PARTS CLEANER SLUDGE FILTERS WITH WASTE ABSORBENT
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	Not reported

LAKESIDE LAND COMPANY (Continued) **S108211721**

Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information: ANTIFREEZE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information: WASTE DIESEL FUEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: CONTAM.DIRT W/DIESEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: WASTE ABSORBANT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: ASBURY
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 09/25/2006
Violation Code: 6HV0220
Violation: SPENT LEAD ACID BATTERY IMPROP. MANAGED

LAKESIDE LAND COMPANY (Continued) **S108211721**

Violation Citation: Spent lead acid batteries not properly managed. 66266.81
Activity: ACTIVE

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 09/25/2006
Violation Code: 6HV0224
Violation: MISMANAGED EMPTY CONTAINERS >5GALS.
Violation Citation: Failed to mark date on empty container larger than 5 gallons and/or manage it within one year. 66261.7(e) & (f).
Activity: ACTIVE

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 06/23/2004
Violation Code: 6HV1006
Violation: HMBP: INVENTORY INADEQUATE
Violation Citation: Business Plan inventory does not list all hazardous materials on site in disclosable quantities. HSC 25504(a),25503.5
Activity: ACTIVE

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 06/23/2004
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Permit Number: 135068
Business Type: 6HK70
EPA Id Number: CAL000255249
APN: 379-143-02-00
Last HMMD Inspection: 02/19/2010
Facility Telephone: 619-449-9083
Permit Status: OPEN
Permit Expiration: 01/31/2013
Date Last Updated: 11/02/2012
Facility Owner: LAKESIDE LAND CO
Facility Mailing Address: 10101 RIVERFORD RD
Facility Mailing City: LAKESIDE
Facility Mailing State: CA
Facility Mailing Zip: 92040-
UST Owner: Not reported
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Not reported
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Inventory Active Permits (not SQG Medical):
Permit Number: 135068
Update Date: 11/02/2012
Case Number: 74-86-2

LAKESIDE LAND COMPANY (Continued) **S108211721**

Name: ACETYLENE GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Permit Number: 135068
Update Date: 11/02/2012
Case Number: MIXTURE
Name: ANTIFREEZE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: 7440-37-1
Name: ARGON GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: 68476-34-6
Name: DIESEL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: CHRONIC

Permit Number: 135068
Update Date: 11/02/2012
Case Number: MIXTURE
Name: GASOLINE
Other Information: REGULAR UNLEADED
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Permit Number: 135068
Update Date: 11/02/2012
Case Number: 8002-05-9
Name: OILS, LUBRICATING
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Permit Number: 135068
Update Date: 11/02/2012
Case Number: 7782-44-7
Name: OXYGEN GAS
Other Information: Not reported
Material Waste: Material

LAKESIDE LAND COMPANY (Continued) **S108211721**

Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Permit Number: 135068
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information: PARTS CLEANER SLUDGE FILTERS WITH WASTE ABSORBENT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information: ANTIFREEZE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information: WASTE DIESEL FUEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: CONTAM.DIRT W/DIESEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

LAKESIDE LAND COMPANY (Continued) **S108211721**

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: WASTE ABSORBANT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: ASBURY
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 09/25/2006
Violation Code: 6HV0220
Violation: SPENT LEAD ACID BATTERY IMPROP. MANAGED
Violation Citation: Spent lead acid batteries not properly managed. 66266.81
Activity: ACTIVE

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 09/25/2006
Violation Code: 6HV0224
Violation: MISMANAGED EMPTY CONTAINERS >5GALS.
Violation Citation: Failed to mark date on empty container larger than 5 gallons and/or manage it within one year. 66261.7(e) & (f).
Activity: ACTIVE

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 06/23/2004
Violation Code: 6HV1006
Violation: HMBP: INVENTORY INADEQUATE
Violation Citation: Business Plan inventory does not list all hazardous materials on site in disclosable quantities. HSC 25504(a),25503.5
Activity: ACTIVE

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 06/23/2004
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Permit Number: 135068

LAKESIDE LAND COMPANY (Continued) **S108211721**

Business Type:	6HK70
EPA Id Number:	CAL000255249
APN:	379-143-02-00
Last HMMD Inspection:	02/19/2010
Facility Telephone:	619-449-9083
Permit Status:	OPEN
Permit Expiration:	01/31/2013
Date Last Updated:	11/02/2012
Facility Owner:	LAKESIDE LAND CO
Facility Mailing Address:	10101 RIVERFORD RD
Facility Mailing City:	LAKESIDE
Facility Mailing State:	CA
Facility Mailing Zip:	92040-
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Inventory Active Permits (not SQG Medical):

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	74-86-2
Name:	ACETYLENE GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	ANTIFREEZE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	7440-37-1
Name:	ARGON GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	CHRONIC

LAKESIDE LAND COMPANY (Continued) **S108211721**

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	GASOLINE
Other Information:	REGULAR UNLEADED
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	8002-05-9
Name:	OILS, LUBRICATING
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	74-98-6
Name:	PROPANE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information:	PARTS CLEANER SLUDGE FILTERS WITH WASTE ABSORBENT
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	Not reported
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Permit Number:	135068
Update Date:	11/02/2012
Case Number:	Not reported

LAKESIDE LAND COMPANY (Continued) **S108211721**

Name: WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information: ANTIFREEZE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information: WASTE DIESEL FUEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: CONTAM.DIRT W/DIESEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: WASTE ABSORBANT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Permit Number: 135068
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: ASBURY
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 09/25/2006
Violation Code: 6HV0220
Violation: SPENT LEAD ACID BATTERY IMPROP. MANAGED
Violation Citation: Spent lead acid batteries not properly managed. 66266.81
Activity: ACTIVE

Permit Number: 135068
Update Date: 11/02/2012
Inspection Date: 09/25/2006
Violation Code: 6HV0224
Violation: MISMANAGED EMPTY CONTAINERS >5GALS.
Violation Citation: Failed to mark date on empty container larger than 5 gallons and/or

LAKESIDE LAND COMPANY (Continued) **S108211721**

	manage it within one year. 66261.7(e) & (f).
Activity:	ACTIVE
Permit Number:	135068
Update Date:	11/02/2012
Inspection Date:	06/23/2004
Violation Code:	6HV1006
Violation:	HMBP: INVENTORY INADEQUATE
Violation Citation:	Business Plan inventory does not list all hazardous materials on site in disclosable quantities. HSC 25504(a),25503.5
Activity:	ACTIVE
Permit Number:	135068
Update Date:	11/02/2012
Inspection Date:	06/23/2004
Violation Code:	6HV1009
Violation:	HMBP: INADEQUATE SITE MAP
Violation Citation:	Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity:	ACTIVE

ENF:

Region:	9
Facility Id:	272990
Agency Name:	Lakeside Land Company
Place Type:	Waste Management Unit
Place Subtype:	Land fill
Facility Type:	Solid Waste Class III - nonhazardous solid wastes
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.860695
Place Longitude:	-116.947118
SIC Code 1:	4953
SIC Desc 1:	Refuse Systems
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	3
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Contaminated soil
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	LNDISPOTH

LAKESIDE LAND COMPANY (Continued) **S108211721**

Program Category1:	LNDISP
Program Category2:	LNDISP
# Of Programs:	1
WDID:	9 000000536
Reg Measure Id:	142400
Reg Measure Type:	WDR
Region:	9
Order #:	R9-1992-0014
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Active
Status Date:	02/22/2014
Effective Date:	04/06/1992
Expiration/Review Date:	04/06/2002
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	5/26/2005
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	59 - Land Disposal Site not paying tipping fee
Direction/Voice:	Passive
Enforcement Id(EID):	242164
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	13267 Letter
Effective Date:	05/10/2002
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000536
Description:	REQUEST FOR ANALYTICAL RESULTS FOR RADIOACTIVE WASTE CONSTITUENTS IN LEACHATE AND/OR GROUNDWATER. PER REQUEST FROM EXEC DIRECTOR SWRCB ON 4/25/02.
Program:	LFNONOPER
Latest Milestone Completion Date:	2003-01-31
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

LAKESIDE LAND COMPANY (Continued) **S108211721**

NPDES:

Npdes Number:	Not reported
Facility Status:	Not reported
Agency Id:	Not reported
Region:	9
Regulatory Measure Id:	215966
Order No:	Not reported
Regulatory Measure Type:	Construction
Place Id:	Not reported
WDID:	9 37C309084
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
RECEIVED DATE:	05/09/2008
PROCESSED DATE:	06/05/1998
STATUS CODE NAME:	Active
STATUS DATE:	10/26/2010
PLACE SIZE:	121
PLACE SIZE UNIT:	Acres
FACILITY CONTACT NAME:	Malcolm Palmer
FACILITY CONTACT TITLE:	Site Manager
FACILITY CONTACT PHONE:	619-571-8769
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	mark@marathonsd.com
OPERATOR NAME:	Lakeside Land Co Inc
OPERATOR ADDRESS:	10108 Riverford Road
OPERATOR CITY:	Lakeside
OPERATOR STATE:	California
OPERATOR ZIP:	92040
OPERATOR CONTACT NAME:	Jim Furby
OPERATOR CONTACT TITLE:	President
OPERATOR CONTACT PHONE:	619-276-4401
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	jim@furbyco.com
OPERATOR TYPE:	Private Business
DEVELOPER NAME:	Lakeside Land Co Inc
DEVELOPER ADDRESS:	10108 Riverford Road
DEVELOPER CITY:	Lakeside
DEVELOPER STATE:	California
DEVELOPER ZIP:	92040
DEVELOPER CONTACT NAME:	Jim Furby
DEVELOPER CONTACT TITLE:	President
CONSTYPE LINEAR UTILITY IND:	N
EMERGENCY PHONE NO:	619-244-1921
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	N
CONSTYPE BELOW GROUND IND:	N
CONSTYPE CABLE LINE IND:	N
CONSTYPE COMM LINE IND:	N
CONSTYPE COMMERTIAL IND:	Y

LAKESIDE LAND COMPANY (Continued) **S108211721**

CONSTYPE ELECTRICAL LINE IND:	N
CONSTYPE GAS LINE IND:	N
CONSTYPE INDUSTRIAL IND:	Y
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	N
CONSTYPE RECONS IND:	N
CONSTYPE RESIDENTIAL IND:	N
CONSTYPE TRANSPORT IND:	N
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	N
CONSTYPE WATER SEWER IND:	N
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	San Diego River
CERTIFIER NAME:	James Furby
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	30-SEP-10
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000002
Facility Status:	Active
Agency Id:	0
Region:	9
Regulatory Measure Id:	215966
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	9 37C309084
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/05/1998
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Lakeside Land Co Inc
Discharge Address:	10108 Riverford Road
Discharge City:	Lakeside
Discharge State:	California
Discharge Zip:	92040
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported

LAKESIDE LAND COMPANY (Continued) **S108211721**

OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

4
SE
1/4-1/2
0.470 mi.
2481 ft.

WOODWARD SAND CO
9891 RIVERFORD RD
LAKESIDE, CA 92040

SAN DIEGO CO. SAM
SLIC
San Diego Co. HMMD

S104746410
N/A

Relative:
Lower

Actual:
368 ft.

SAN DIEGO CO. SAM:

Case Number:	H06670-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Non Billable**
Facility Type:	Soils Only
Facility Status:	Leak Being Confirmed
Date:	10/12/1990
Date Began:	10/12/1990
Case Number:	H06670-002
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Soils Only

WOODWARD SAND CO (Continued) **S104746410**

Facility Status: Closed Case
Date: 8/9/1996
Date Began: 6/27/1996

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 09/12/2012
Global Id: T0608176918
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H06670-001
Latitude: 32.8606184
Longitude: -116.9472338
Case Type: Cleanup Program Site
Case Worker: VAP
Local Agency: SAN DIEGO COUNTY LOP
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Administratively Closed

Click here to access the California GeoTracker records for this facility:

Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 08/09/1996
Global Id: T0608160887
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H06670-002
Latitude: 32.856329
Longitude: -116.947306
Case Type: Cleanup Program Site
Case Worker: NA
Local Agency: SAN DIEGO COUNTY LOP
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Soil
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

HMMD SAN DIEGO:
Permit Number: 106670
Business Type: Not reported
EPA Id Number: CAD981666456
APN: 382-011-14-00
Last HMMD Inspection: 04/23/1990
Facility Telephone: 561-1000
Permit Status: INAC
Permit Expiration: Not reported
Date Last Updated: 11/02/2012
Facility Owner: JOHN WOODWARD
Facility Mailing Address: P O BOX 713070
Facility Mailing City: SANTEE

WOODWARD SAND CO (Continued) **S104746410**

Facility Mailing State:	CA
Facility Mailing Zip:	92072-3070
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

5
SSW
1/2-1
0.873 mi.
4611 ft.

KETEMA PROCESS EQUIPMENT CO., C/O BAKER PROCESS **ENVIROSTOR** **S118757455**
9484 MISSION PARK PLACE **N/A**
SANTEE, CA 92071

Relative:
Lower

Actual:
356 ft.

ENVIROSTOR:

Facility ID:	71003382
Status:	No Action Required
Status Date:	09/30/1998
Site Code:	Not reported
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Not reported
Division Branch:	Cleanup Cypress
Assembly:	71
Senate:	38
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	32.84870
Longitude:	-116.9574
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAL000178492
Alias Type:	EPA Identification Number
Alias Name:	71003382
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase I Verification
Completed Date:	09/30/1998
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1

KETEMA PROCESS EQUIPMENT CO., C/O BAKER PROCESS (Continued) **S118757455**

Completed Date:	03/31/2004
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/10/2017
Date Data Arrived at EDR: 11/03/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 42

Source: EPA
Telephone: N/A
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/10/2017
Date Data Arrived at EDR: 11/03/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 42

Source: EPA
Telephone: N/A
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/10/2017
Date Data Arrived at EDR: 11/03/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 42

Source: EPA
Telephone: N/A
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/06/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/11/2017
Date Data Arrived at EDR: 07/21/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 77

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/11/2017
Date Data Arrived at EDR: 07/28/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 70

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/22/2017
Date Data Arrived at EDR: 06/13/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 94

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/08/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/10/2017
Date Data Arrived at EDR: 08/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/27/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/10/2017
Date Data Arrived at EDR: 08/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/27/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/18/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 22

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/30/2017
Date Data Arrived at EDR: 10/31/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/31/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/30/2017
Date Data Arrived at EDR: 10/31/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/31/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/13/2017
Date Data Arrived at EDR: 11/14/2017
Date Made Active in Reports: 12/07/2017
Number of Days to Update: 23

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27
Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/11/2017
Date Data Arrived at EDR: 09/12/2017
Date Made Active in Reports: 11/09/2017
Number of Days to Update: 58
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29
Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/25/2017
Date Data Arrived at EDR: 11/07/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 31
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 11/07/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/13/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/01/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/26/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/11/2017
Date Data Arrived at EDR: 09/12/2017
Date Made Active in Reports: 11/09/2017
Number of Days to Update: 58
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/13/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/11/2017
Date Data Arrived at EDR: 09/12/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 57
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/12/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 09/25/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/26/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/24/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 134
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/02/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/01/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/13/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/14/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 71

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/25/2017
Date Data Arrived at EDR: 07/27/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 78

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/30/2017
Date Data Arrived at EDR: 10/31/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/31/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/20/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/21/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 11/09/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 08/21/2017
Date Data Arrived at EDR: 09/20/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/19/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 11/06/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 09/11/2017
Date Data Arrived at EDR: 09/12/2017
Date Made Active in Reports: 09/21/2017
Number of Days to Update: 9
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/12/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 05/30/2017
Date Data Arrived at EDR: 05/31/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 76

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 11/09/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/30/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/20/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 07/13/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 30

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/28/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/30/2017
Date Data Arrived at EDR: 10/31/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/31/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 06/30/2017
Date Data Arrived at EDR: 08/18/2017
Date Made Active in Reports: 09/21/2017
Number of Days to Update: 34

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 10/10/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 07/13/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 30

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/28/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 11/27/2017
Date Data Arrived at EDR: 11/29/2017
Date Made Active in Reports: 12/18/2017
Number of Days to Update: 19

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/28/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/31/2017
Date Data Arrived at EDR: 09/05/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 64

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/11/2017
Date Data Arrived at EDR: 07/26/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 09/05/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 63
Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 12/05/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/21/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 22
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 05/09/2017
Date Data Arrived at EDR: 07/26/2017
Date Made Active in Reports: 09/21/2017
Number of Days to Update: 57
Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/11/2017
Date Data Arrived at EDR: 09/12/2017
Date Made Active in Reports: 11/09/2017
Number of Days to Update: 58
Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/11/2017
Date Data Arrived at EDR: 09/12/2017
Date Made Active in Reports: 11/09/2017
Number of Days to Update: 58
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 10

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/22/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/13/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/11/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/17/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 10/17/2017
Date Data Arrived at EDR: 11/01/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 37
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/06/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6
Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/09/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14
Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/22/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133
Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/20/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/27/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 09/27/2017
Date Data Arrived at EDR: 10/12/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 8
Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/08/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2017
Date Data Arrived at EDR: 11/17/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 21
Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 126
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/13/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 10/11/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 10/16/2017
Next Scheduled EDR Contact: 11/20/2017
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 12/05/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/08/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 10/26/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2017
Date Data Arrived at EDR: 10/05/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 8
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/05/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 10/31/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2017
Date Data Arrived at EDR: 08/03/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 78

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/18/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/20/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/11/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/02/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/22/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/10/2017
Date Data Arrived at EDR: 11/03/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 11/03/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 07/31/2017
Date Data Arrived at EDR: 08/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/28/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/01/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/01/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/25/2017
Date Data Arrived at EDR: 09/26/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 24

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 12/19/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/23/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 9

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 12/05/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/20/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 12/05/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 261

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/21/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2016
Date Data Arrived at EDR: 06/02/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 133
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/16/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/17/2017
Date Data Arrived at EDR: 08/17/2017
Date Made Active in Reports: 09/15/2017
Number of Days to Update: 29
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/20/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/21/2017
Date Data Arrived at EDR: 09/21/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 22
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/02/2017
Date Data Arrived at EDR: 08/08/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 69
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 08/15/2017
Number of Days to Update: 147
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/22/2017
Next Scheduled EDR Contact: 01/01/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2017
Date Data Arrived at EDR: 11/03/2017
Date Made Active in Reports: 12/07/2017
Number of Days to Update: 34

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 10/23/2017
Date Data Arrived at EDR: 10/24/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 52

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/14/2017
Date Data Arrived at EDR: 11/17/2017
Date Made Active in Reports: 12/18/2017
Number of Days to Update: 31

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 11/09/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/12/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 97

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 10/10/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 08/21/2017
Date Data Arrived at EDR: 08/22/2017
Date Made Active in Reports: 10/25/2017
Number of Days to Update: 64

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 11/20/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 08/21/2017
Date Data Arrived at EDR: 08/22/2017
Date Made Active in Reports: 10/25/2017
Number of Days to Update: 64
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/20/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/10/2017
Date Data Arrived at EDR: 10/10/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 7
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/10/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/11/2017
Date Data Arrived at EDR: 09/12/2017
Date Made Active in Reports: 11/01/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/12/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 09/01/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 63
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 12/05/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/13/2017
Date Data Arrived at EDR: 11/14/2017
Date Made Active in Reports: 12/07/2017
Number of Days to Update: 23
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 09/05/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 63
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 12/05/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/11/2017
Date Data Arrived at EDR: 09/12/2017
Date Made Active in Reports: 10/18/2017
Number of Days to Update: 36
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 12/12/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 06/16/2017
Date Data Arrived at EDR: 06/20/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 119
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/13/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 09/11/2017
Date Data Arrived at EDR: 09/12/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 94
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 12/12/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/13/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/19/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 09/22/2017
Date Data Arrived at EDR: 09/22/2017
Date Made Active in Reports: 10/10/2017
Number of Days to Update: 18

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/21/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/11/2017
Date Data Arrived at EDR: 10/12/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 27

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/10/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 09/13/2017
Date Data Arrived at EDR: 09/15/2017
Date Made Active in Reports: 11/14/2017
Number of Days to Update: 60

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 09/18/2017
Next Scheduled EDR Contact: 10/23/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 08/31/2017
Date Data Arrived at EDR: 09/05/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 64

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/20/2017
Next Scheduled EDR Contact: 10/09/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 08/07/2017
Date Data Arrived at EDR: 08/08/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 69

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 08/17/2017
Date Data Arrived at EDR: 08/22/2017
Date Made Active in Reports: 10/25/2017
Number of Days to Update: 64

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/30/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 10/31/2017
Date Data Arrived at EDR: 11/01/2017
Date Made Active in Reports: 11/14/2017
Number of Days to Update: 13

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/25/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 08/18/2017
Date Data Arrived at EDR: 08/22/2017
Date Made Active in Reports: 10/24/2017
Number of Days to Update: 63

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 10/30/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/03/2017
Date Data Arrived at EDR: 10/06/2017
Date Made Active in Reports: 11/15/2017
Number of Days to Update: 40

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 09/27/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 10/25/2017
Date Data Arrived at EDR: 10/27/2017
Date Made Active in Reports: 11/15/2017
Number of Days to Update: 19

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 08/03/2017
Date Data Arrived at EDR: 08/08/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 69

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 10/23/2017
Date Data Arrived at EDR: 10/24/2017
Date Made Active in Reports: 11/15/2017
Number of Days to Update: 22

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/08/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 08/04/2017
Number of Days to Update: 56

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 11/02/2017
Date Data Arrived at EDR: 11/07/2017
Date Made Active in Reports: 12/20/2017
Number of Days to Update: 43

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 11/14/2017
Date Data Arrived at EDR: 11/17/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 28

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 11/09/2017
Date Data Arrived at EDR: 11/10/2017
Date Made Active in Reports: 11/15/2017
Number of Days to Update: 5

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/16/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 07/24/2017
Date Data Arrived at EDR: 07/26/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 82

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206
Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 12/13/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/11/2017
Date Data Arrived at EDR: 10/12/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 5
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 10/10/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/16/2017
Date Data Arrived at EDR: 10/17/2017
Date Made Active in Reports: 12/07/2017
Number of Days to Update: 51
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/17/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 10/09/2017
Number of Days to Update: 171
Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/16/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 11/01/2017
Date Data Arrived at EDR: 11/14/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 31
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/16/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 07/11/2017
Date Data Arrived at EDR: 07/14/2017
Date Made Active in Reports: 09/21/2017
Number of Days to Update: 69

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/10/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 10/26/2017
Date Data Arrived at EDR: 10/27/2017
Date Made Active in Reports: 11/06/2017
Number of Days to Update: 10

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/28/2017
Date Data Arrived at EDR: 10/05/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 34

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 09/27/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 10/02/2017
Date Data Arrived at EDR: 10/03/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 14

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 40

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/21/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 09/11/2017
Date Data Arrived at EDR: 09/15/2017
Date Made Active in Reports: 11/28/2017
Number of Days to Update: 74
Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 11/20/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/21/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 11/22/2017
Date Data Arrived at EDR: 11/27/2017
Date Made Active in Reports: 12/19/2017
Number of Days to Update: 22
Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/21/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/02/2017
Date Data Arrived at EDR: 11/07/2017
Date Made Active in Reports: 11/15/2017
Number of Days to Update: 8
Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/25/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 11/02/2017
Date Data Arrived at EDR: 11/09/2017
Date Made Active in Reports: 12/07/2017
Number of Days to Update: 28
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/06/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/02/2017
Date Data Arrived at EDR: 11/09/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 36
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/06/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 11/02/2017
Date Data Arrived at EDR: 11/07/2017
Date Made Active in Reports: 12/19/2017
Number of Days to Update: 42

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 11/07/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/05/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 63

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 10/23/2017
Date Data Arrived at EDR: 11/03/2017
Date Made Active in Reports: 11/15/2017
Number of Days to Update: 12

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 10/11/2017
Date Data Arrived at EDR: 10/12/2017
Date Made Active in Reports: 11/09/2017
Number of Days to Update: 28

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/15/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 10/12/2017
Date Data Arrived at EDR: 10/12/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/15/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 08/02/2017
Date Data Arrived at EDR: 10/03/2017
Date Made Active in Reports: 10/06/2017
Number of Days to Update: 3

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/03/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2017
Date Data Arrived at EDR: 10/03/2017
Date Made Active in Reports: 11/16/2017
Number of Days to Update: 44

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 10/03/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 11/01/2017
Date Data Arrived at EDR: 11/03/2017
Date Made Active in Reports: 11/17/2017
Number of Days to Update: 14

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/31/2017
Date Data Arrived at EDR: 09/19/2017
Date Made Active in Reports: 11/16/2017
Number of Days to Update: 58

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 11/06/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/05/2017
Date Data Arrived at EDR: 09/06/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 63

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 12/05/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/29/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/02/2017
Date Data Arrived at EDR: 11/07/2017
Date Made Active in Reports: 12/19/2017
Number of Days to Update: 42
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 10/03/2017
Date Data Arrived at EDR: 10/06/2017
Date Made Active in Reports: 10/10/2017
Number of Days to Update: 4
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/13/2017
Next Scheduled EDR Contact: 04/02/2018
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/16/2017
Date Data Arrived at EDR: 11/17/2017
Date Made Active in Reports: 12/18/2017
Number of Days to Update: 31
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 09/15/2017
Date Data Arrived at EDR: 09/19/2017
Date Made Active in Reports: 10/17/2017
Number of Days to Update: 28
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/06/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 09/15/2017
Date Data Arrived at EDR: 09/19/2017
Date Made Active in Reports: 11/09/2017
Number of Days to Update: 51
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/06/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 12/13/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 08/07/2017
Date Data Arrived at EDR: 08/10/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 67
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/21/2017
Next Scheduled EDR Contact: 03/12/2018
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/01/2017
Date Data Arrived at EDR: 11/03/2017
Date Made Active in Reports: 12/07/2017
Number of Days to Update: 34

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 09/26/2017
Date Data Arrived at EDR: 09/27/2017
Date Made Active in Reports: 11/10/2017
Number of Days to Update: 44

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/08/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/26/2017
Date Data Arrived at EDR: 09/27/2017
Date Made Active in Reports: 11/08/2017
Number of Days to Update: 42

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 12/08/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 09/25/2017
Date Data Arrived at EDR: 09/27/2017
Date Made Active in Reports: 11/16/2017
Number of Days to Update: 50

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/19/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 10/03/2017
Date Data Arrived at EDR: 10/06/2017
Date Made Active in Reports: 11/10/2017
Number of Days to Update: 35

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/19/2017
Next Scheduled EDR Contact: 04/09/2018
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 11/01/2017
Date Data Arrived at EDR: 11/10/2017
Date Made Active in Reports: 11/16/2017
Number of Days to Update: 6

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/16/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 12/01/2017
Date Data Arrived at EDR: 12/04/2017
Date Made Active in Reports: 12/19/2017
Number of Days to Update: 15

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 12/01/2017
Next Scheduled EDR Contact: 03/19/2018
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA Facility List

Cupa facilities

Date of Government Version: 11/16/2017
Date Data Arrived at EDR: 11/17/2017
Date Made Active in Reports: 12/18/2017
Number of Days to Update: 31

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 10/23/2017
Date Data Arrived at EDR: 10/24/2017
Date Made Active in Reports: 11/16/2017
Number of Days to Update: 23

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

TULARE COUNTY:

CUPA Facility List
Cupa program facilities

Date of Government Version: 09/27/2017
Date Data Arrived at EDR: 09/28/2017
Date Made Active in Reports: 10/16/2017
Number of Days to Update: 18

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 12/18/2017
Next Scheduled EDR Contact: 02/19/2018
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 10/24/2017
Date Data Arrived at EDR: 10/25/2017
Date Made Active in Reports: 11/16/2017
Number of Days to Update: 22

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/26/2017
Date Data Arrived at EDR: 10/25/2017
Date Made Active in Reports: 12/07/2017
Number of Days to Update: 43

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/27/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/08/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2017
Date Data Arrived at EDR: 10/25/2017
Date Made Active in Reports: 12/07/2017
Number of Days to Update: 43

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/23/2017
Next Scheduled EDR Contact: 02/05/2018
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/28/2017
Date Data Arrived at EDR: 09/12/2017
Date Made Active in Reports: 09/21/2017
Number of Days to Update: 9
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/11/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 09/27/2017
Date Data Arrived at EDR: 10/02/2017
Date Made Active in Reports: 11/14/2017
Number of Days to Update: 43
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 09/27/2017
Next Scheduled EDR Contact: 01/15/2018
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 11/08/2017
Date Data Arrived at EDR: 11/10/2017
Date Made Active in Reports: 11/16/2017
Number of Days to Update: 6
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 10/25/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/11/2017
Date Data Arrived at EDR: 11/14/2017
Date Made Active in Reports: 12/18/2017
Number of Days to Update: 34
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/14/2017
Next Scheduled EDR Contact: 02/26/2018
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 07/27/2017
Number of Days to Update: 107
Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2017
Next Scheduled EDR Contact: 01/22/2018
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 10/01/2017
Date Data Arrived at EDR: 11/01/2017
Date Made Active in Reports: 11/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/01/2017
Next Scheduled EDR Contact: 02/12/2018
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/16/2017
Next Scheduled EDR Contact: 01/29/2018
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/16/2017
Next Scheduled EDR Contact: 03/05/2018
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 07/14/2017
Number of Days to Update: 92

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 12/11/2017
Next Scheduled EDR Contact: 03/26/2018
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

EL NOPAL
11320 EL NOPAL
LAKESIDE, CA 92040

TARGET PROPERTY COORDINATES

Latitude (North):	32.861715 - 32° 51' 42.17''
Longitude (West):	116.953028 - 116° 57' 10.90''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	504394.8
UTM Y (Meters):	3635767.2
Elevation:	399 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5622884 EL CAJON, CA
Version Date:	2012
North Map:	5622916 SAN VICENTE RESERVOIR, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

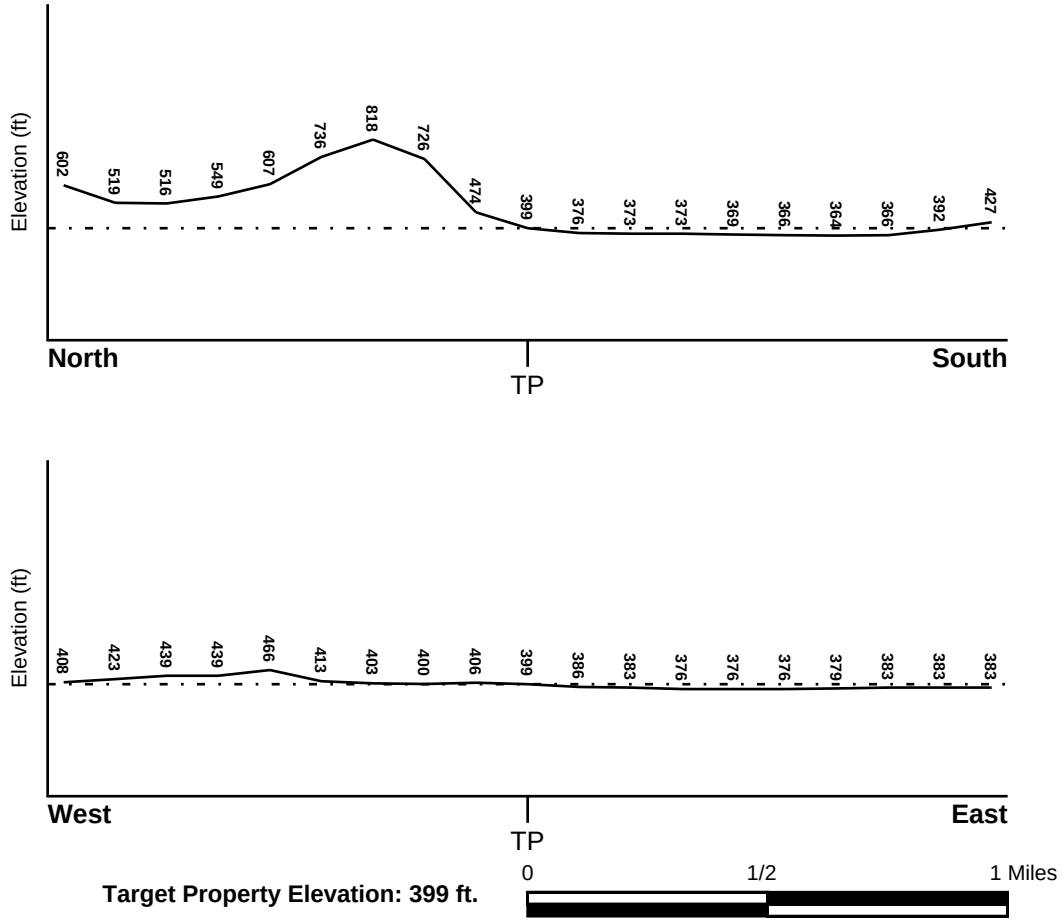
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06073C1652G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06073C1389G	FEMA FIRM Flood data
06073C1651G	FEMA FIRM Flood data
06073C1656G	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
EL CAJON	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

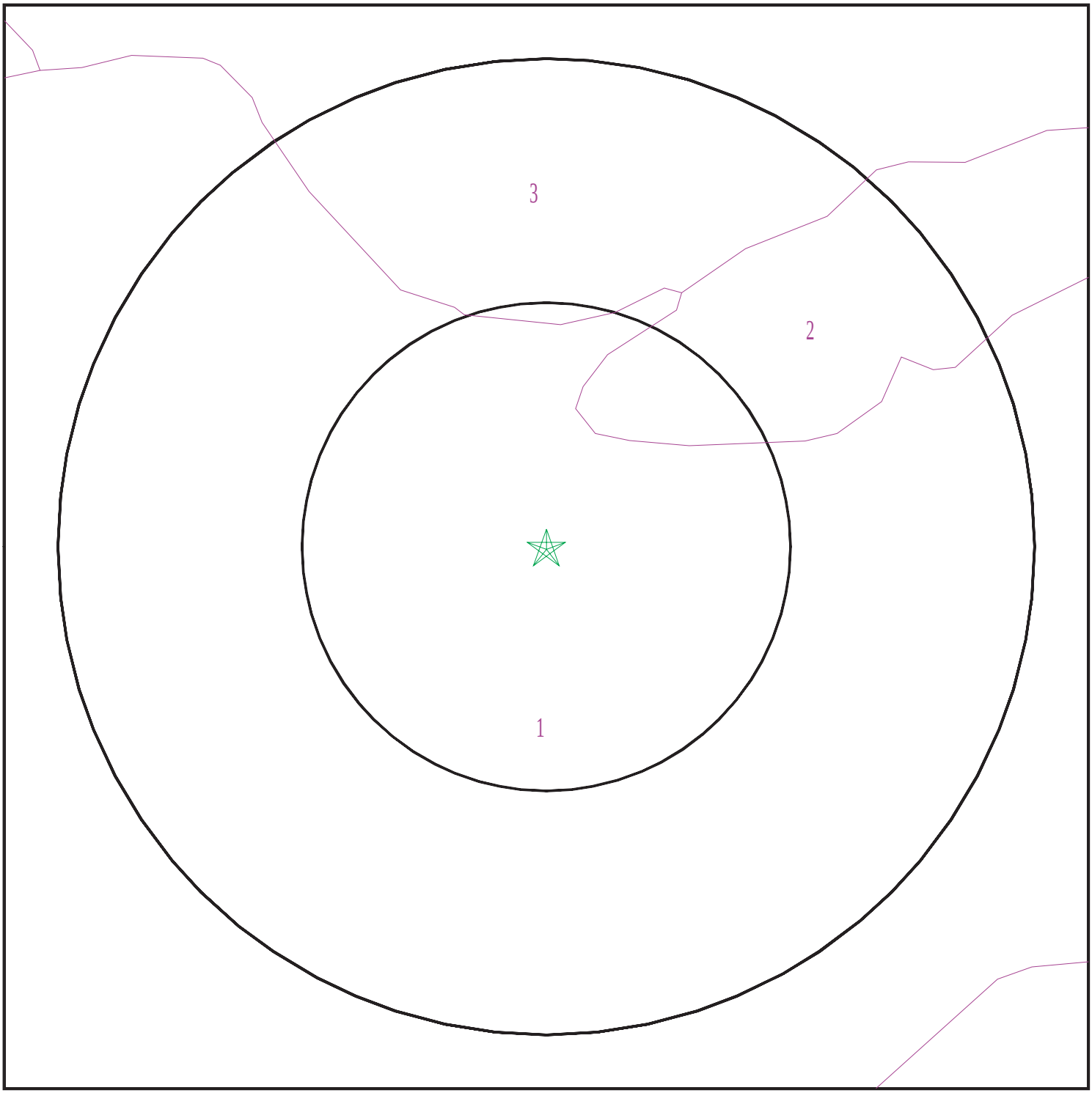
Era:	Mesozoic
System:	Lower Jurassic and Upper Triassic
Series:	Lower Mesozoic
Code:	lMze *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Eugeosynclinal Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5144483.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	El Nopal	CLIENT:	Bodhi Group
ADDRESS:	11320 El Nopal Lakeside CA 92040	CONTACT:	Sree Gopinath
		INQUIRY #:	5144483.2s
LAT/LONG:	32.861715 / 116.953028	DATE:	December 22, 2017 2:31 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: VISALIA

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 6.1
2	11 inches	40 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 6.1
3	40 inches	59 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 6.5 Min: 6.1

Soil Map ID: 2

Soil Component Name: GREENFIELD

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 6.1
2	5 inches	33 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6.5 Min: 6.1
3	33 inches	66 inches	stratified loamy coarse sand to sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.6

Soil Map ID: 3

Soil Component Name: CIENEBA

Soil Surface Texture: coarse sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 5 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 5.6
2	7 inches	11 inches	weathered bedrock	Not reported	Not reported	Max: Min:	Max: Min:

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
3	USGS40000129937	1/2 - 1 Mile WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

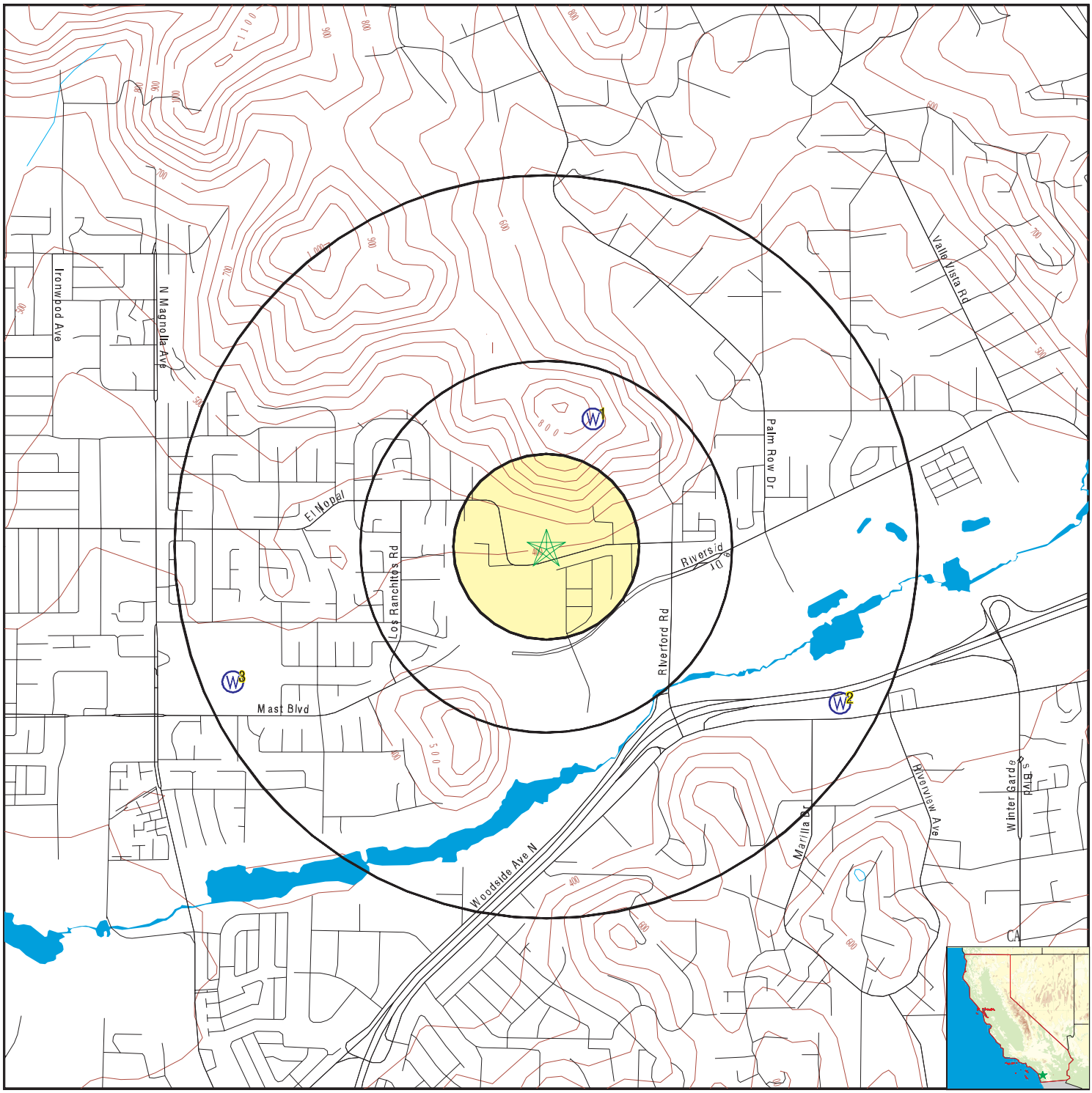
No PWS System Found

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	12756	1/4 - 1/2 Mile NNE
2	CADW60000005153	1/2 - 1 Mile ESE

PHYSICAL SETTING SOURCE MAP - 5144483.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: El Nopal	CLIENT: Bodhi Group
ADDRESS: 11320 El Nopal Lakeside CA 92040	CONTACT: Sree Gopinath
LAT/LONG: 32.861715 / 116.953028	INQUIRY #: 5144483.2s DATE: December 22, 2017 2:31 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
NNE **CA WELLS** **12756**
1/4 - 1/2 Mile
Higher

Water System Information:

Prime Station Code:	15S/01W-23A03 S	User ID:	WAT
FRDS Number:	3710020011	County:	San Diego
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Abandoned
Source Lat/Long:	325200.0 1165700.0	Precision:	Undefined
Source Name:	RIVERVIEW WELL 02 - ABANDONED		
System Number:	3710020		
System Name:	San Diego - City of		
Organization That Operates System:			
	5540 Kiowa Dr.		
	La Mesa, CA 91942-2372		
Pop Served:	1200000	Connections:	236000
Area Served:	SAN DIEGO		

2
ESE **CA WELLS** **CADW60000005153**
1/2 - 1 Mile
Lower

Objectid:	5153
Latitude:	32.855608
Longitude:	-116.939431
Site code:	328556N1169394W001
State well numbe:	Not Reported
Local well name:	'Marilla'
Well use id:	1
Well use descrip:	Observation
County id:	37
County name:	San Diego
Basin code:	'9-15'
Basin desc:	San Diego River Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000005153

3
WSW **FED USGS** **USGS40000129937**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-325123116580001		
Monloc name:	015S001W22G002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070304	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	32.8564379
Longitude:	-116.9675279	Sourcemap scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	Unknown	Horiz Acc measure units:	Unknown
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92040	55	0

Federal EPA Radon Zone for SAN DIEGO County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 92040

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.000 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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El Nopal

11320 El Nopal

Lakeside, CA 92040

Inquiry Number: 5144483.3

December 22, 2017

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

12/22/17

Site Name:

El Nopal
11320 El Nopal
Lakeside, CA 92040
EDR Inquiry # 5144483.3

Client Name:

Bodhi Group
1076 Broadway, Suite B
EL CAJON, CA 92021
Contact: Sree Gopinath

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Bodhi Group were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # F5DC-48F2-BC94

PO # 9125001

Project 9125001 El Nopal Phase 1

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: F5DC-48F2-BC94

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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El Nopal

11320 El Nopal

Lakeside, CA 92040

Inquiry Number: 5144483.4

December 22, 2017

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

12/22/17

Site Name:

El Nopal
11320 El Nopal
Lakeside, CA 92040
EDR Inquiry # 5144483.4

Client Name:

Bodhi Group
1076 Broadway, Suite B
EL CAJON, CA 92021
Contact: Sree Gopinath

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Bodhi Group were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 9125001

Project: 9125001 El Nopal Phase 1

Coordinates:

Latitude:	32.861715 32° 51' 42" North
Longitude:	-116.953028 -116° 57' 11" West
UTM Zone:	Zone 11 North
UTM X Meters:	504394.76
UTM Y Meters:	3635957.80
Elevation:	396.90' above sea level

Maps Provided:

2012	1939
1996	1903
1975	1901
1967	1893
1955	
1948	
1947	
1942	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



San Vicente Reservoir
2012
7.5-minute, 24000



El Cajon
2012
7.5-minute, 24000

1996 Source Sheets



El Cajon
1996
7.5-minute, 24000



San Vicente Reservoir
1996
7.5-minute, 24000
Aerial Photo Revised 1996

1975 Source Sheets



El Cajon
1975
7.5-minute, 24000
Aerial Photo Revised 1953

1967 Source Sheets



El Cajon
1967
7.5-minute, 24000
Aerial Photo Revised 1966

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1955 Source Sheets



El Cajon
1955
7.5-minute, 24000
Aerial Photo Revised 1953



San Vicente Reservoir
1955
7.5-minute, 24000
Aerial Photo Revised 1953

1948 Source Sheets



EL CAJON
1948
15-minute, 50000

1947 Source Sheets



El Cajon
1947
15-minute, 62500

1942 Source Sheets



El Cajon
1942
15-minute, 62500

Topo Sheet Key

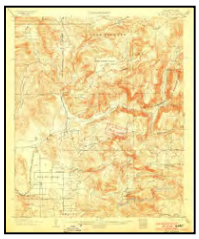
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1939 Source Sheets



El Cajon
1939
15-minute, 62500

1903 Source Sheets

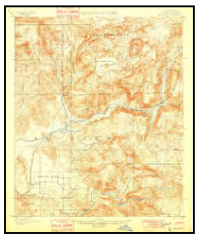


Elcajon
1903
15-minute, 62500



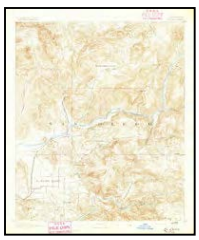
El Cajon
1903
15-minute, 62500

1901 Source Sheets



Elcajon
1901
15-minute, 62500

1893 Source Sheets



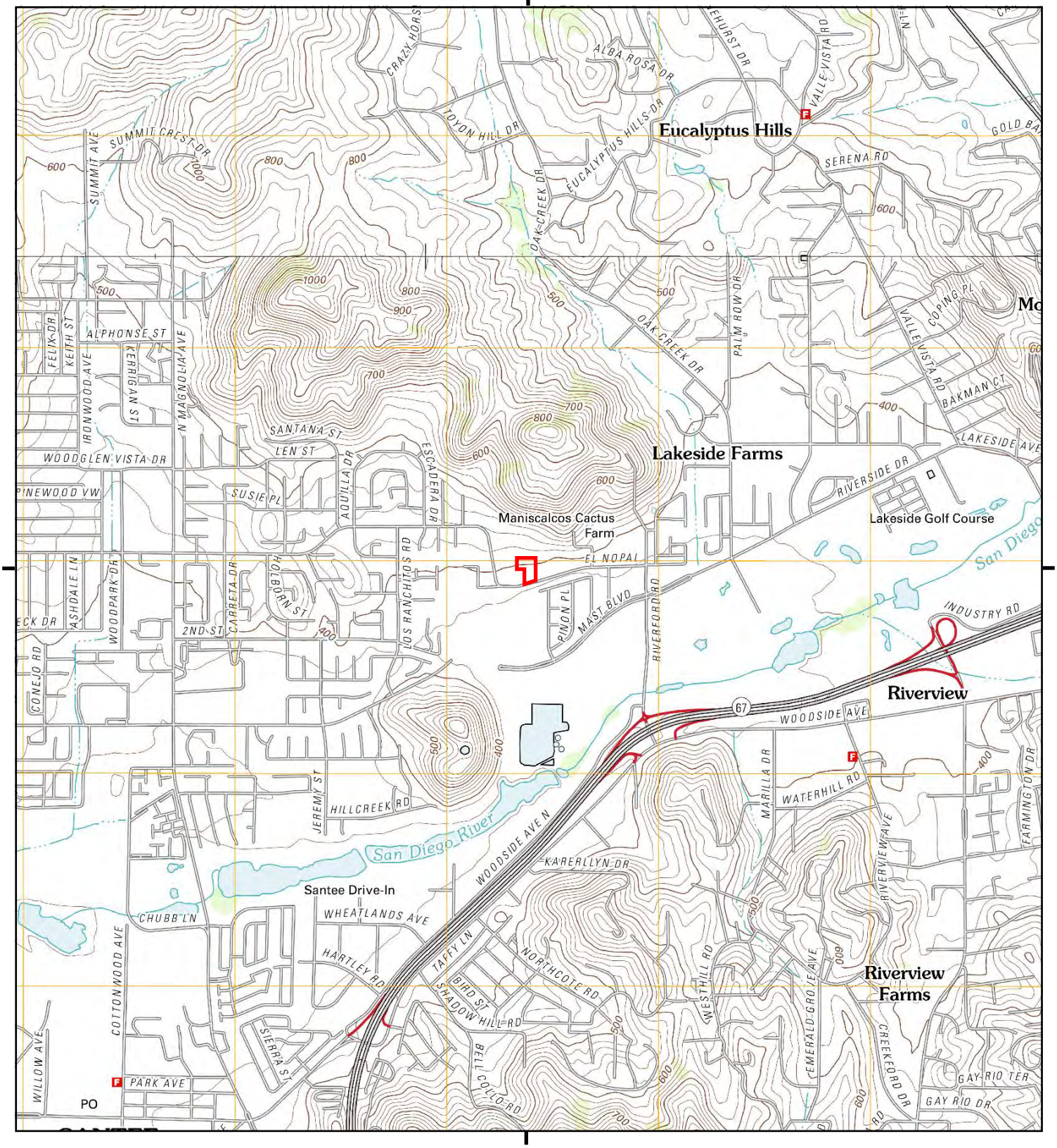
El Cajon
1893
15-minute, 62500



Elcajon
1893
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

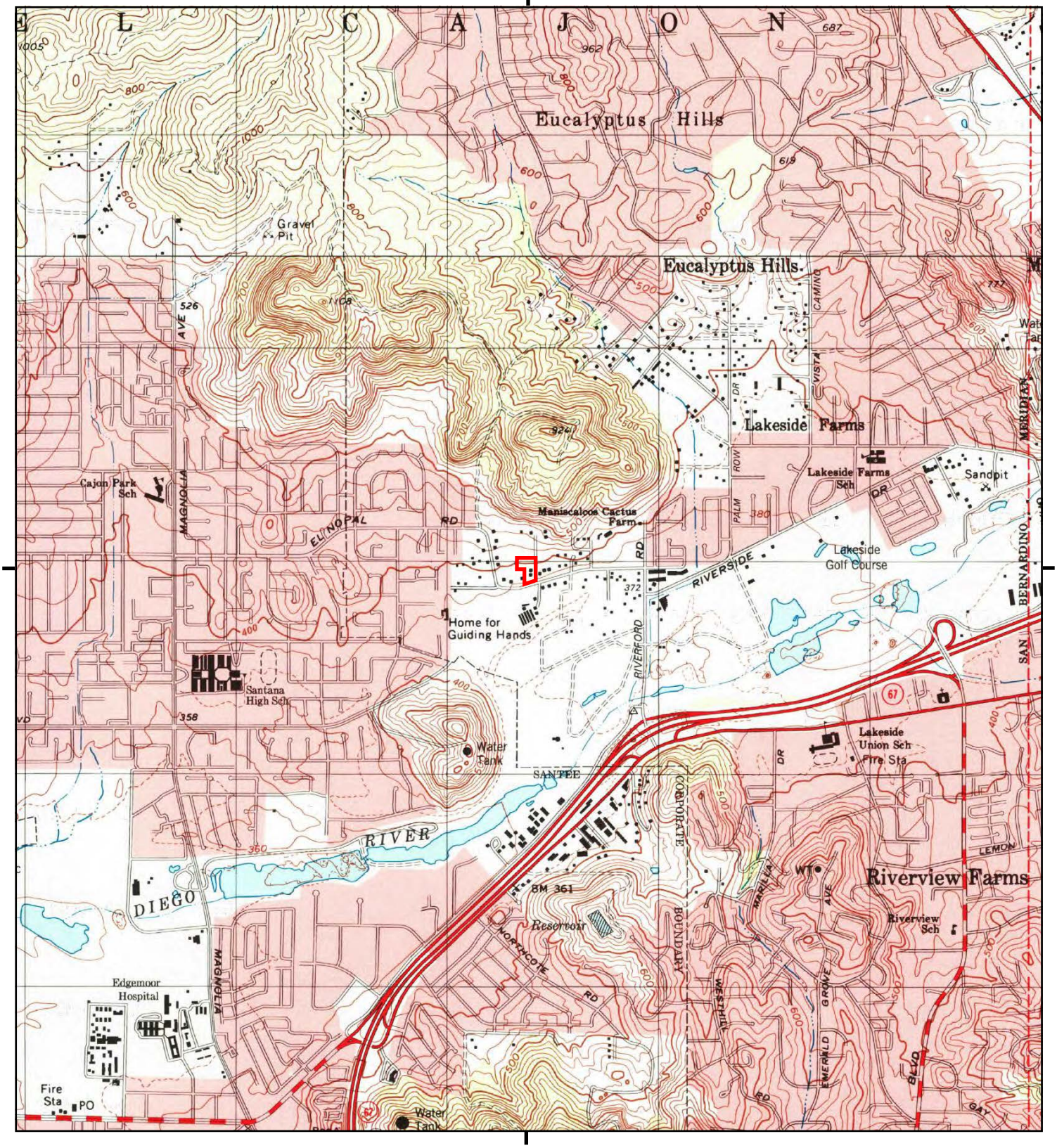
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, El Cajon, 2012, 7.5-minute
N, San Vicente Reservoir, 2012, 7.5-minute

SITE NAME: El Nopal
ADDRESS: 11320 El Nopal
Lakeside, CA 92040
CLIENT: Bodhi Group

N



This report includes information from the following map sheet(s).

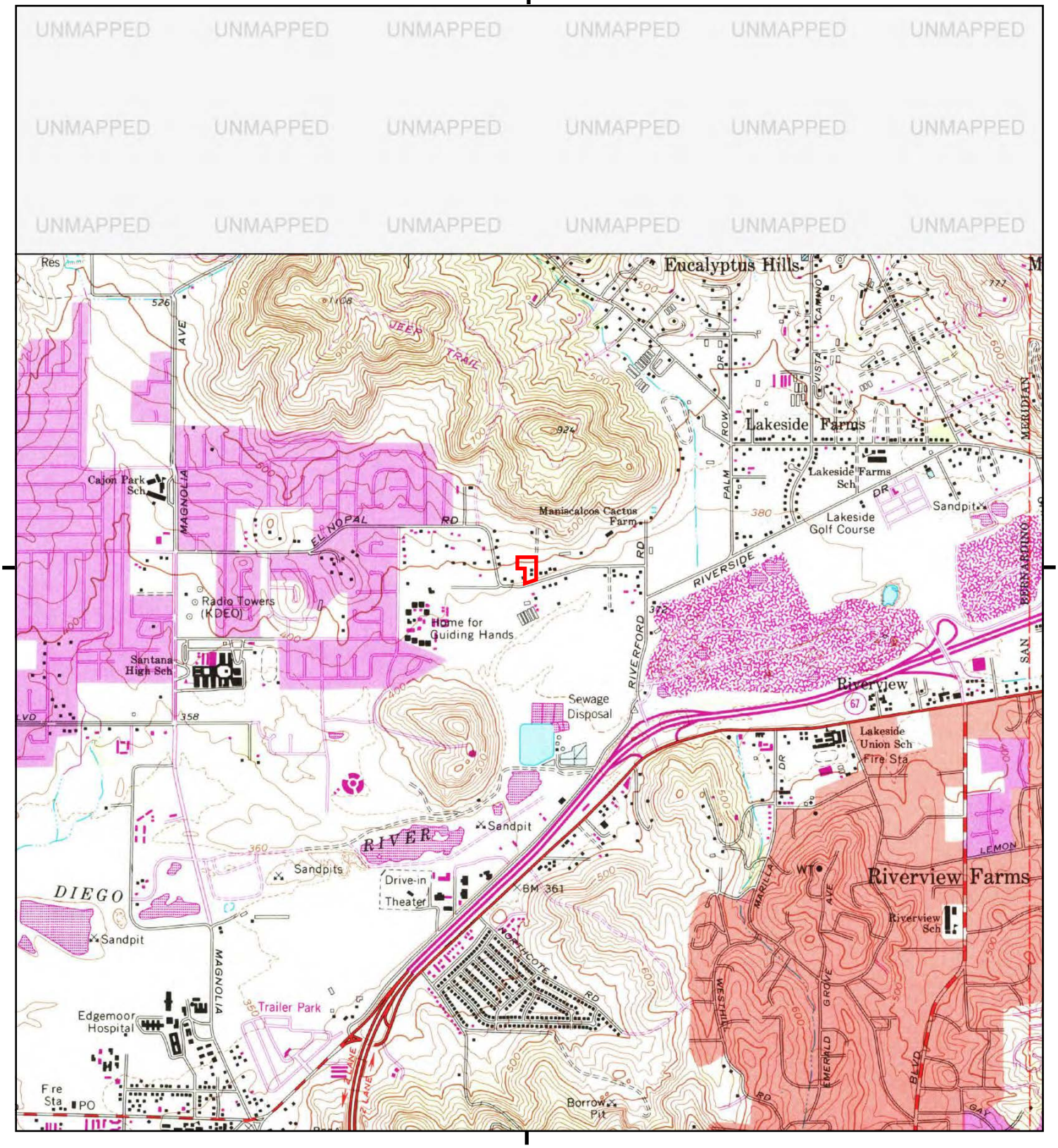
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, El Cajon, 1996, 7.5-minute
N, San Vicente Reservoir, 1996, 7.5-minute

SITE NAME: El Nopal
ADDRESS: 11320 El Nopal
Lakeside, CA 92040
CLIENT: Bodhi Group

N



This report includes information from the following map sheet(s).

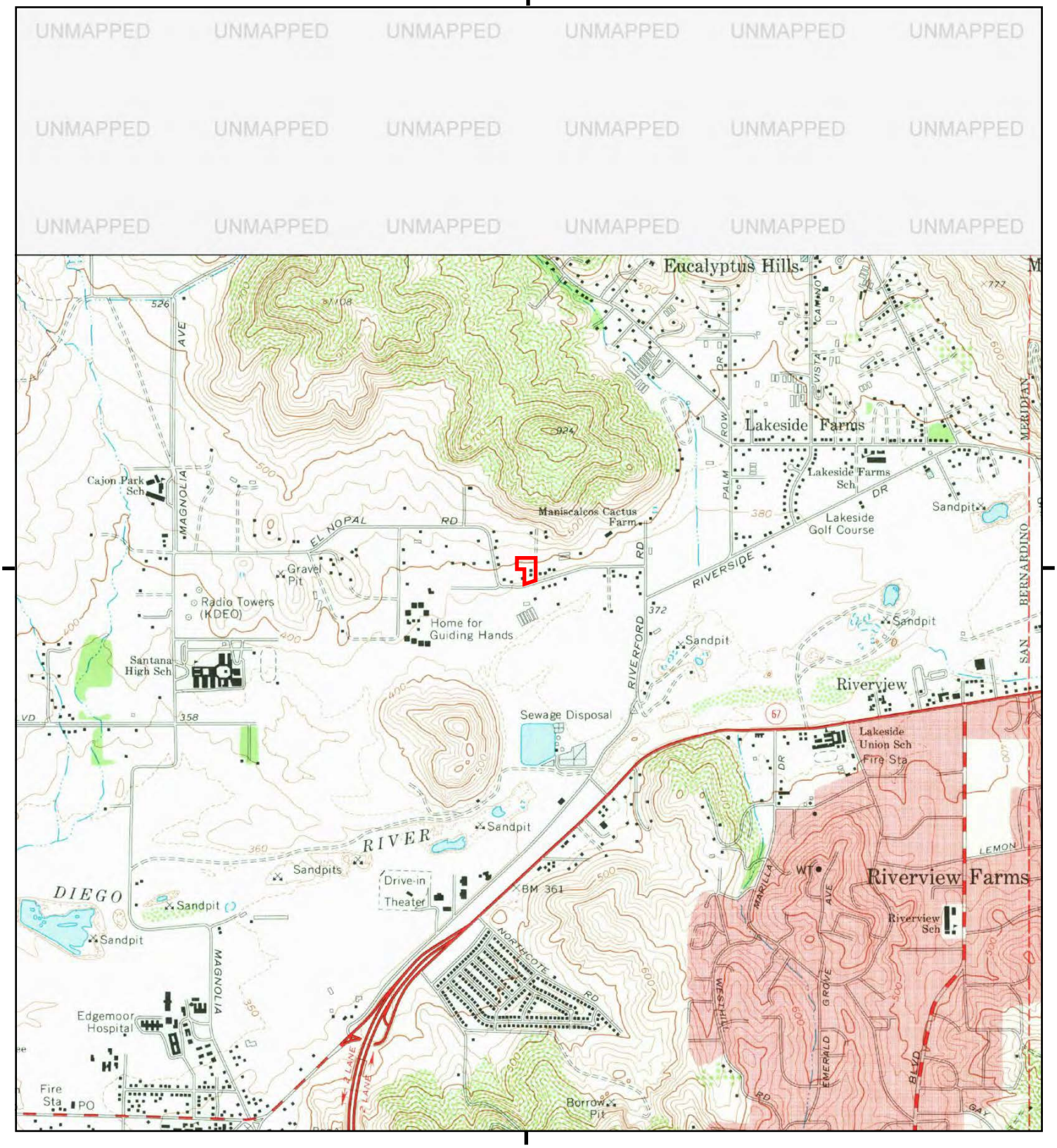
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, El Cajon, 1975, 7.5-minute

SITE NAME: El Nopal
ADDRESS: 11320 El Nopal
Lakeside, CA 92040
CLIENT: Bodhi Group

N



This report includes information from the following map sheet(s).

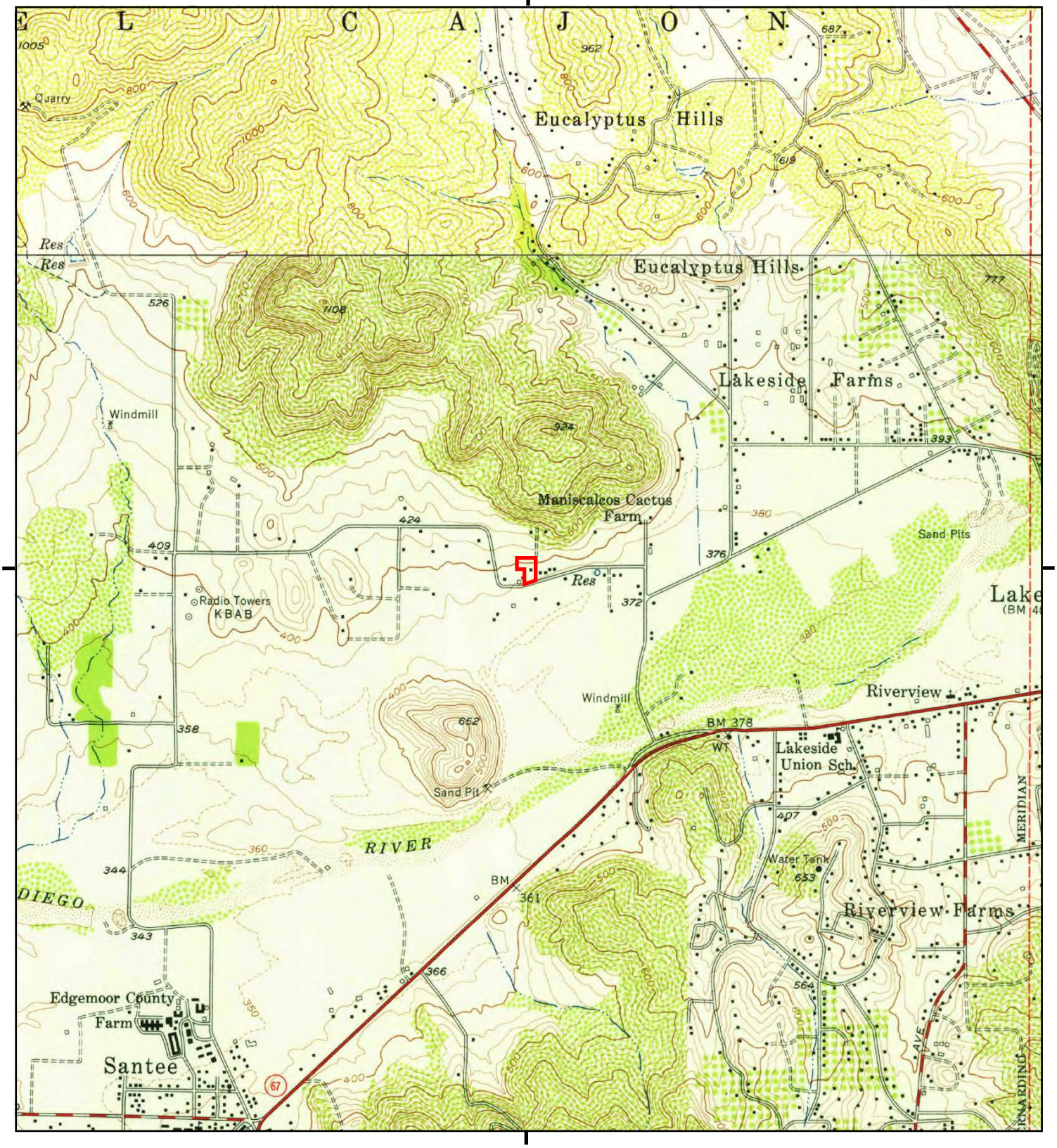
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, El Cajon, 1967, 7.5-minute

SITE NAME: El Nopal
ADDRESS: 11320 El Nopal
Lakeside, CA 92040
CLIENT: Bodhi Group

N



This report includes information from the following map sheet(s).

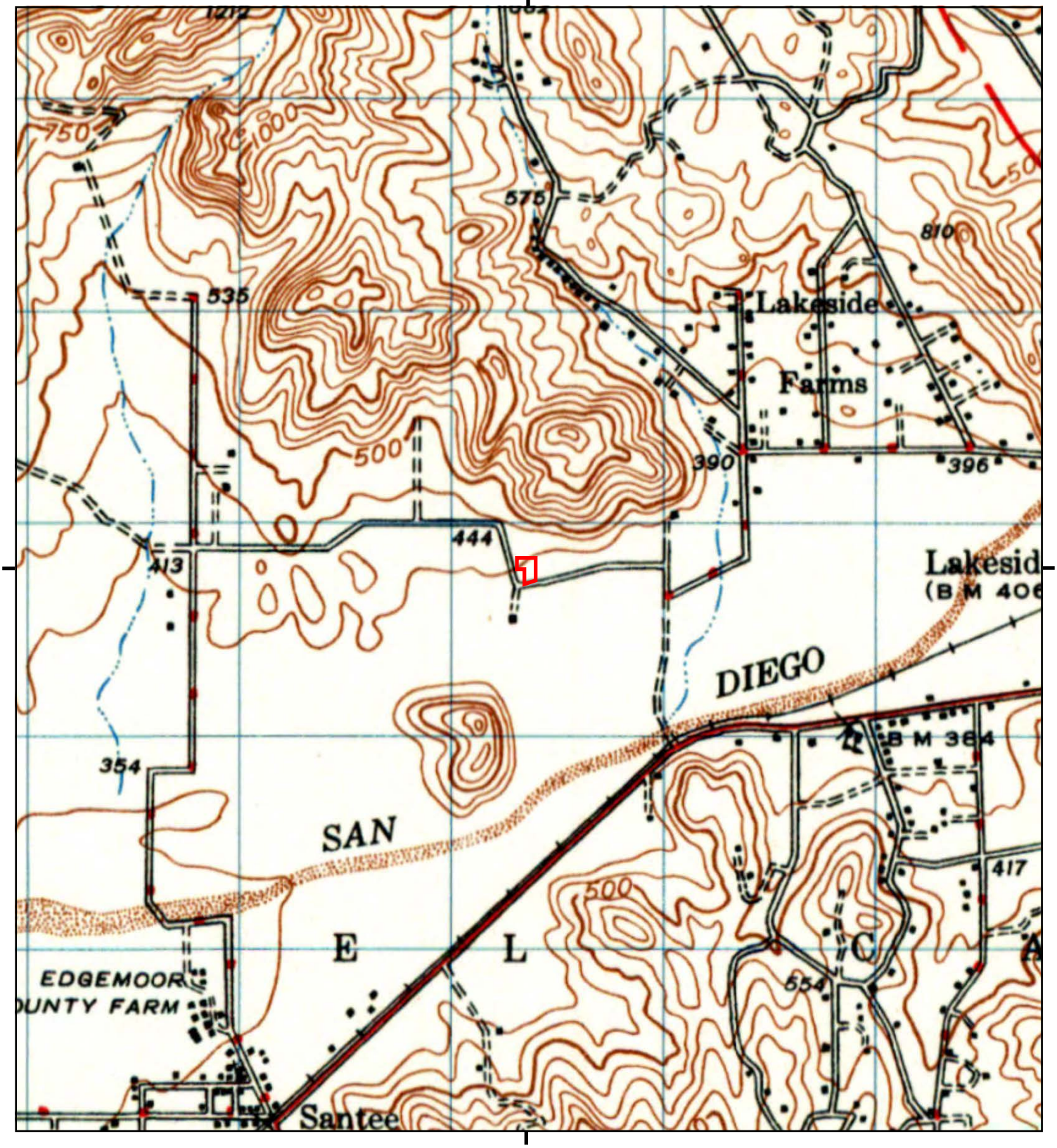
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, El Cajon, 1955, 7.5-minute
N, San Vicente Reservoir, 1955, 7.5-minute

SITE NAME: El Nopal
ADDRESS: 11320 El Nopal
Lakeside, CA 92040
CLIENT: Bodhi Group

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

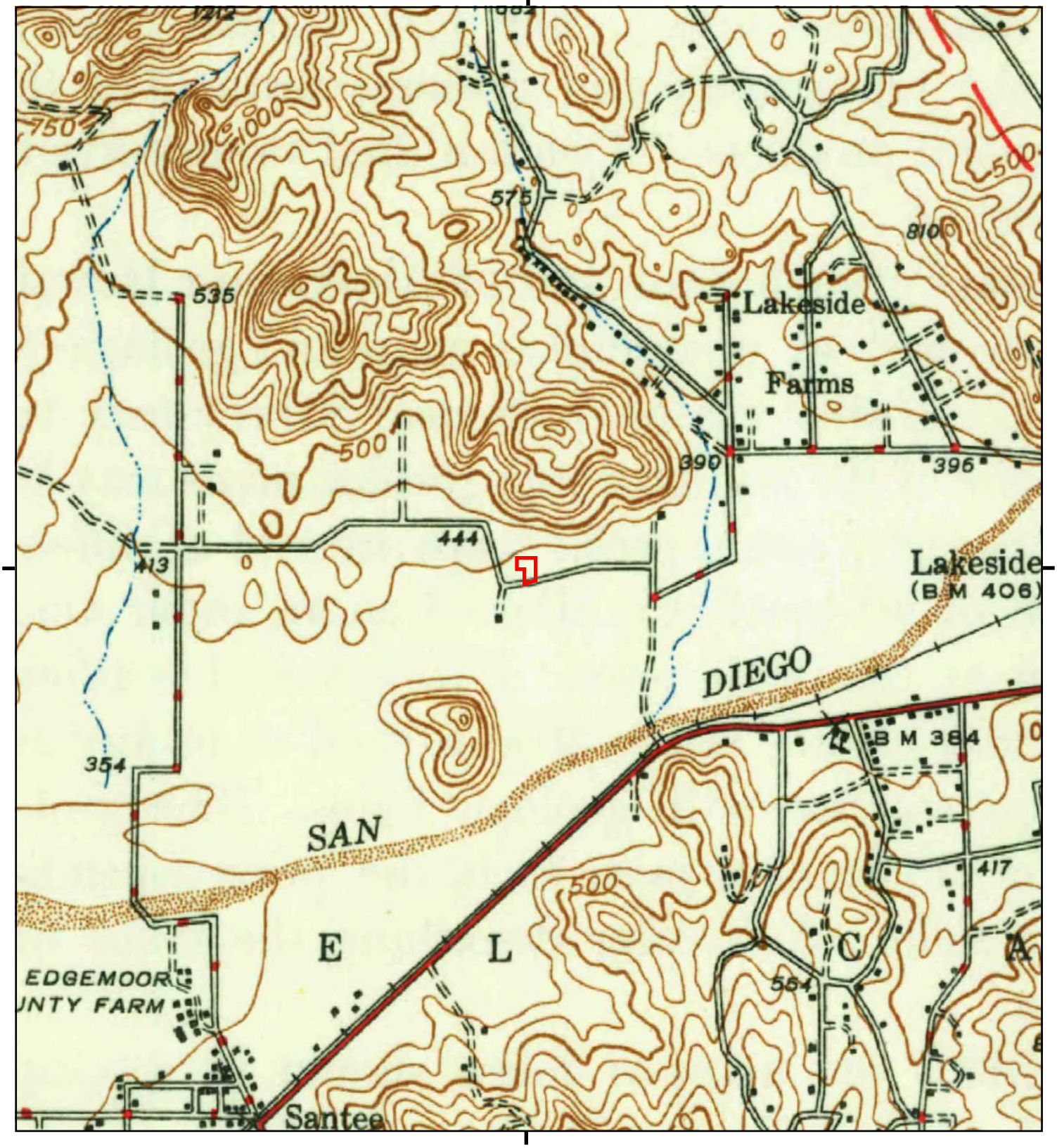
TP, EL CAJON, 1948, 15-minute

SITE NAME: El Nopal
ADDRESS: 11320 El Nopal
Lakeside, CA 92040
CLIENT: Bodhi Group

N

Historical Topo Map

1947



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

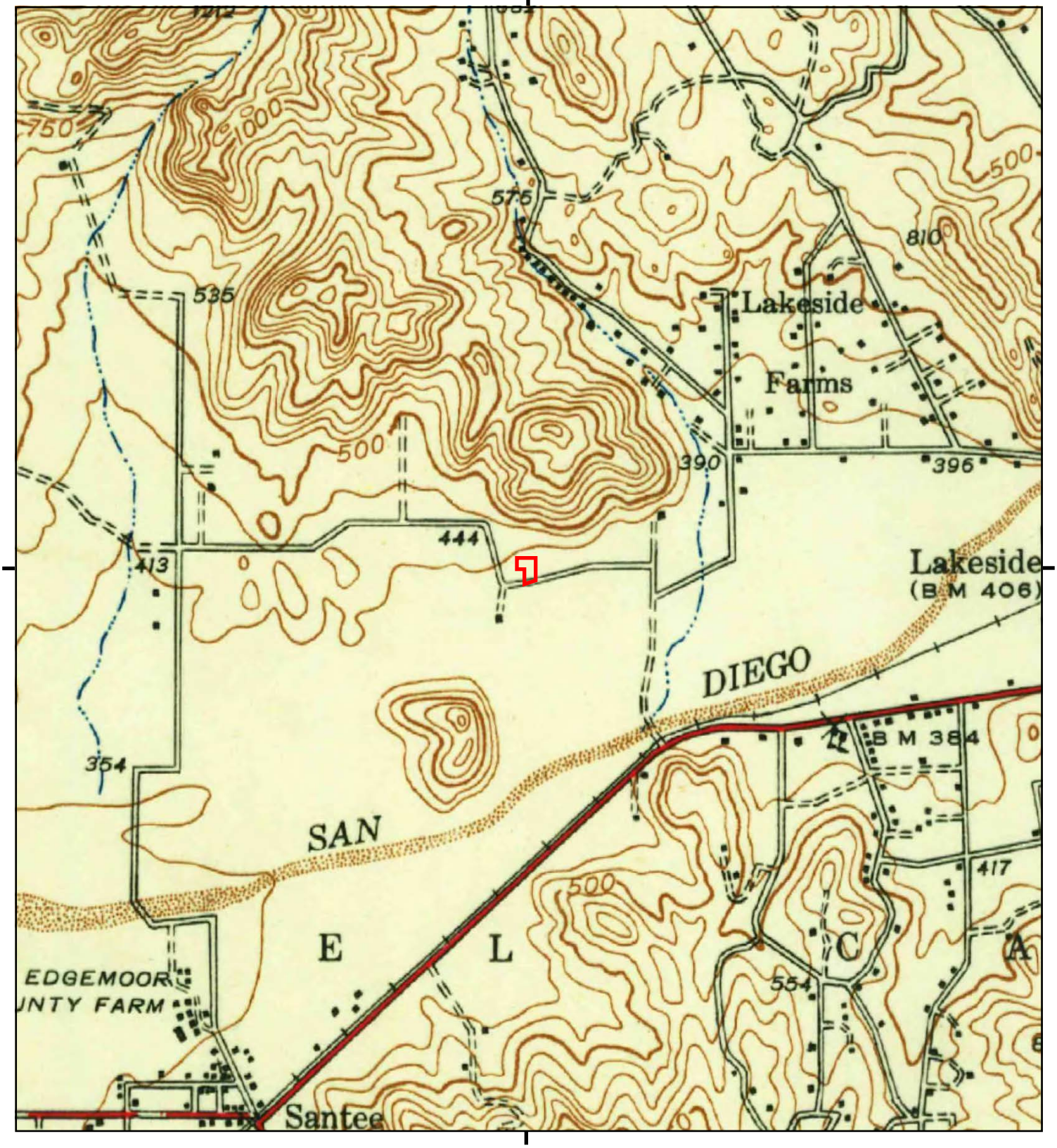
TP, El Cajon, 1947, 15-minute

SITE NAME: El Nopal
ADDRESS: 11320 El Nopal
Lakeside, CA 92040
CLIENT: Bodhi Group

N

Historical Topo Map

1942



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

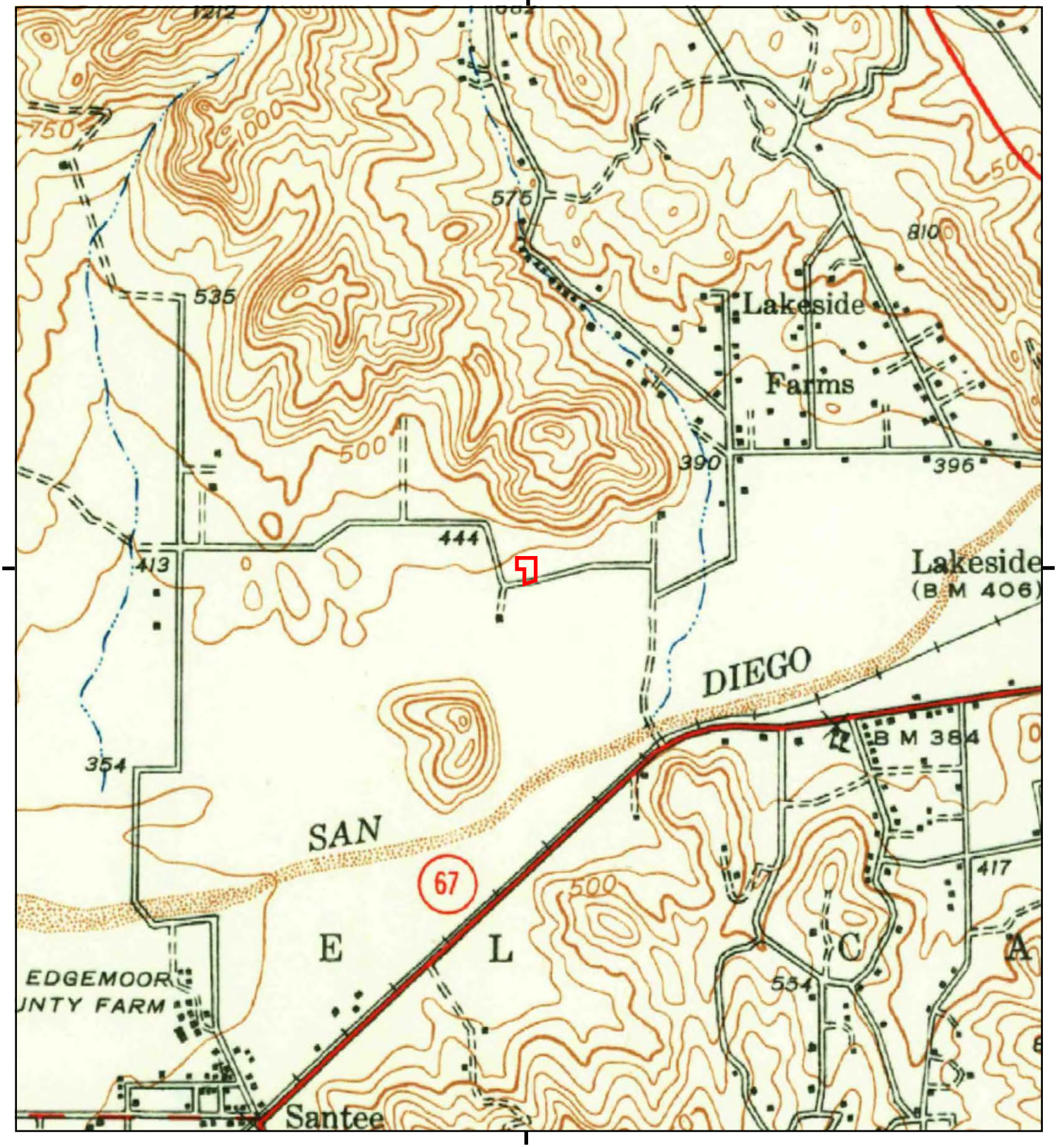
TP, El Cajon, 1942, 15-minute

SITE NAME: El Nopal
ADDRESS: 11320 El Nopal
Lakeside, CA 92040
CLIENT: Bodhi Group

N

Historical Topo Map

1939



This report includes information from the following map sheet(s).

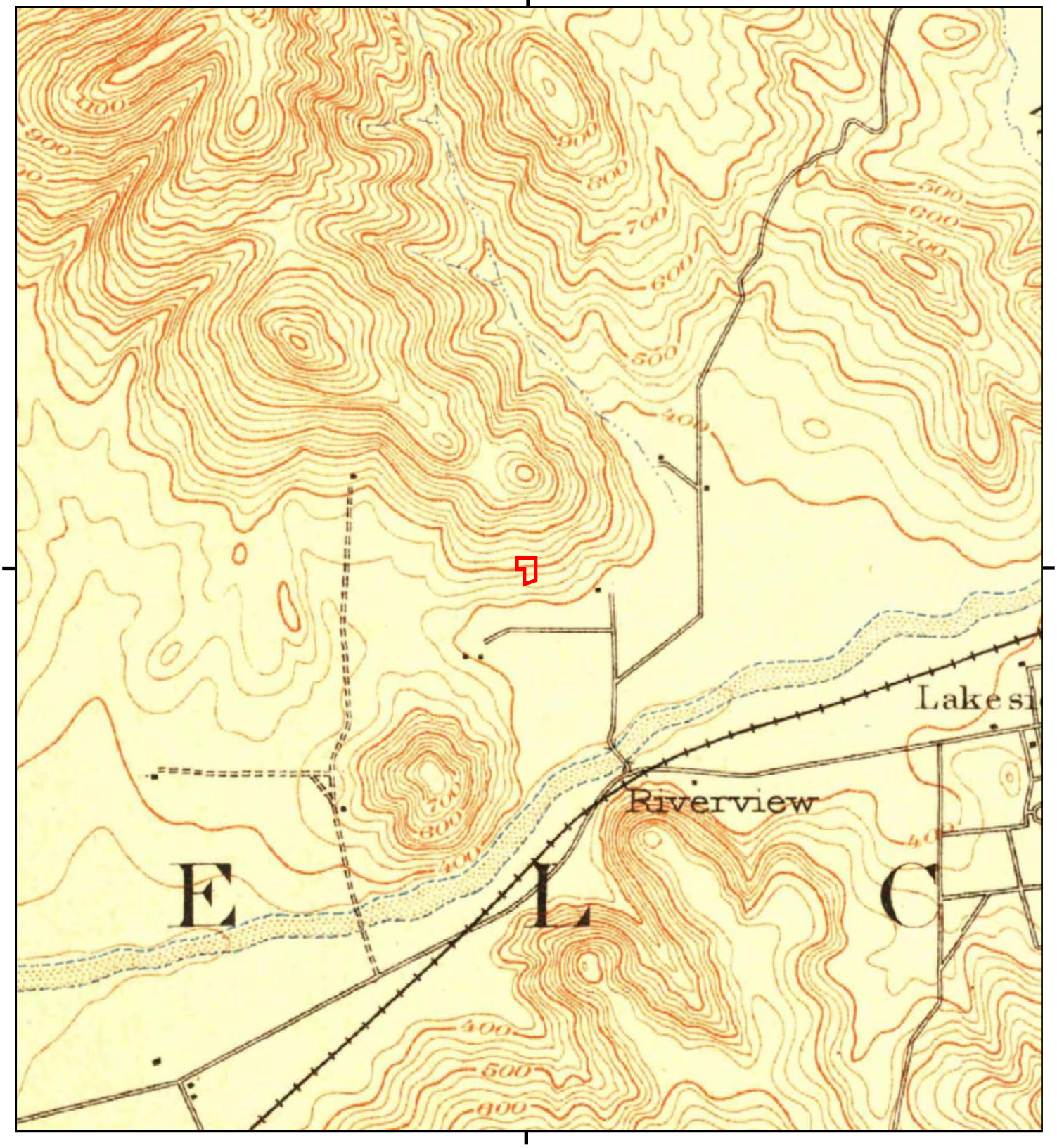
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, El Cajon, 1939, 15-minute

SITE NAME: El Nopal
ADDRESS: 11320 El Nopal
Lakeside, CA 92040
CLIENT: Bodhi Group

N



This report includes information from the following map sheet(s).

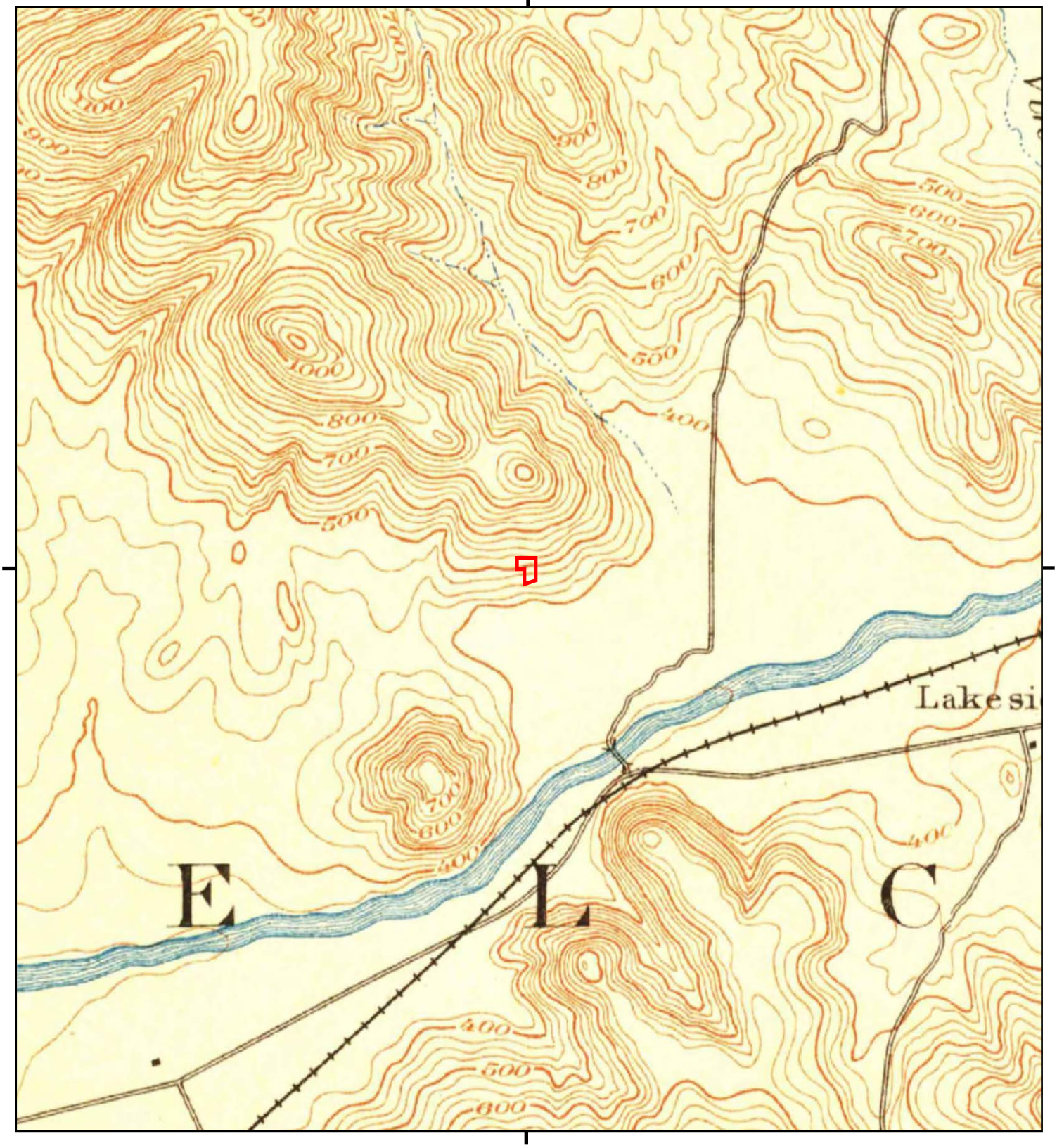
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Elcajon, 1903, 15-minute
TP, El Cajon, 1903, 15-minute

SITE NAME: El Nopal
ADDRESS: 11320 El Nopal
Lakeside, CA 92040
CLIENT: Bodhi Group

N



This report includes information from the following map sheet(s).

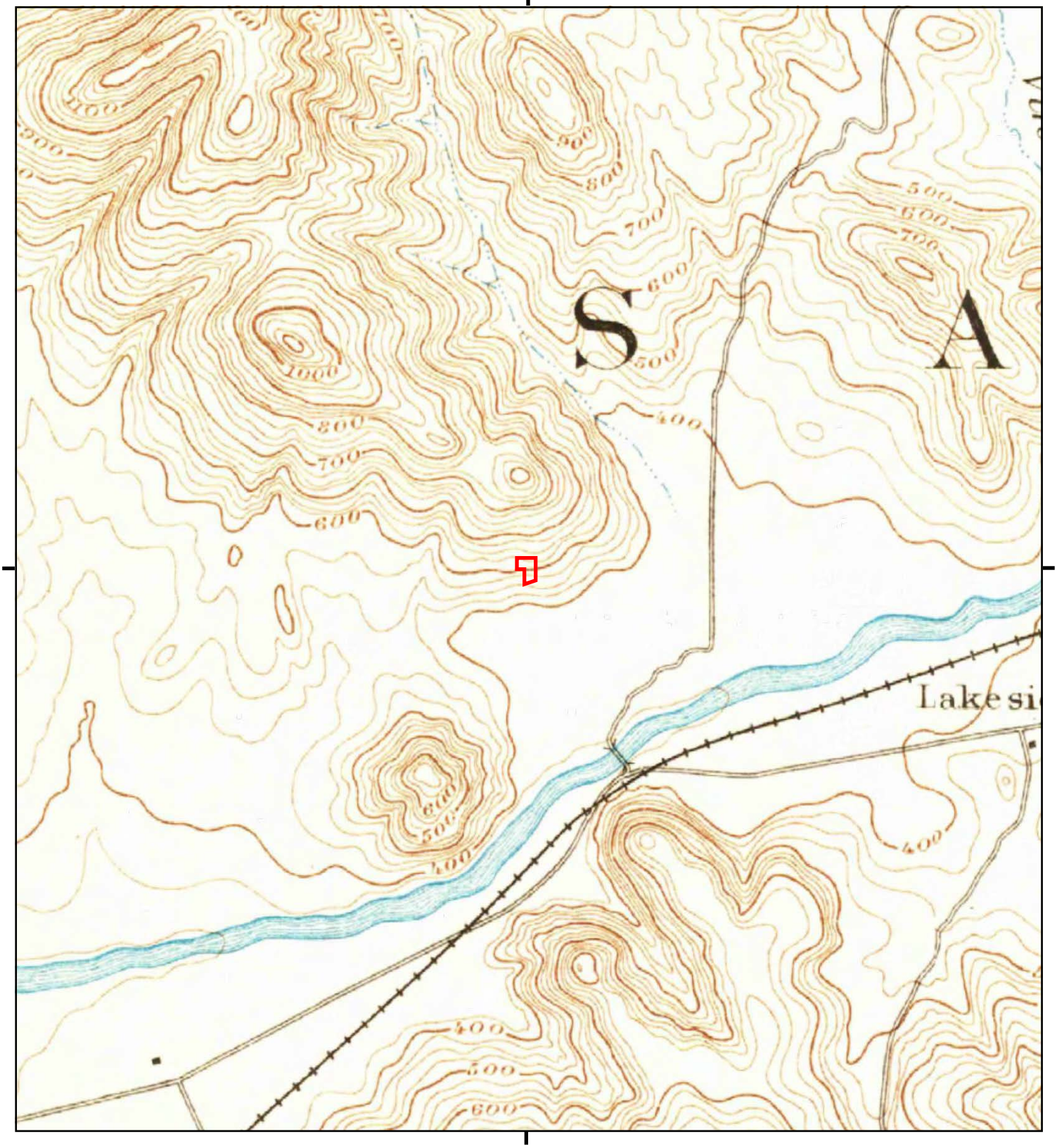
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Elcajon, 1901, 15-minute

SITE NAME: El Nopal
ADDRESS: 11320 El Nopal
Lakeside, CA 92040
CLIENT: Bodhi Group

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, El Cajon, 1893, 15-minute
TP, Elcajon, 1893, 15-minute

SITE NAME: El Nopal
ADDRESS: 11320 El Nopal
Lakeside, CA 92040
CLIENT: Bodhi Group

N

Appendix B

Department of Environmental Health (DEH) Files

SITE ASSESSMENT AND MITIGATION DIVISION

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT

page 1 of 2

ESTABLISHMENT NO. H19469 PLAN CHECK NO. AT4031

SITE NAME El Capitan Oil PHONE

SITE ADDRESS 11427 Woodside Ave. CITY Santee, CA ZIP 92071

CONTRACTOR South Bay Environmental Services PHONE (619)238-8338

Number of tanks to be removed 1 2 3 4 5 6 7 8 (9)

Decontamination by South Bay Sandblasting+Tank Cleaning

Manifest No. To be provided via facsimile

Tank rinsate/(amount & destination) 1800 gallons to DeMenno Kerdoon Compton, CA

FIRE AGENCY PRESENT (YES) NO

Dept. City of Santee

Permit No. 98-057

Inspector Phil Davis

Tank ID No.	#2	#1	4	3	5	REMARKS
Capacity (gallon)	7500	7500	2500	550	550	(A) moderate corrosion
Tank Construction	steel ~~diesel~~	steel	steel	steel →		no holes observed
Materials stored	~~diesel~~ steel	gasoline	gasoline	waste oil		(B) Petroleum hydrocarbon
% L.E.L.	0%	0%		0%	0%	odors & staining
Dry ice/other (amt.) (lbs)	150 lbs.	150 lbs		15	15	(C) some pitting
Tank condition	(A)	(A)(C)		(D)	(A)	(D) Two holes observed; one
Backfill soil type	sand	sand	→	→	→	on bottom (1/4") + one on top (1/4")
Backfill condition	(B)	(B)	→	→	→	Tank had a smaller 1' x 2.5'
Native soil type	sand	sand	→	→	→	tank on bottom near end.
Native condition	(B)(F)	(B)(F)	(F)	(B)	(B)	(E) Product piping appears
Excavation odors? pet. HC	slight	slight	→	→	→	to have been removed
Stockpile odors? pet. HC	slight	slight	→	→	→	previously (NT1976 10/97)
Water present?	no	no	→	→	→	(F) some areas of natives oil
Ponded product?	no	no	→	→	→	revealed no staining w/slight odor
Piping removed?	yes(E)	yes(E)	yes	yes	yes	

REINSPECTION REQUIRED YES (NO) If yes, explain

NOTICE: You are hereby notified that on 4/29/98, a Hazardous Materials Specialist conducted an inspection for the closure of nine (9) hazardous substance underground storage tank(s). A summary of the conditions follows:
(see attached closure report for add'l 4 USTs.

☐ An **unauthorized release** of a hazardous substance has been observed by the Hazardous Materials Specialist. You are hereby required to initiate **Corrective Action** measures (see Page 4 for details).

☒ A determination of this site's status is pending the Site Assessment and Mitigation (SAM) Division's receipt and review of analytical results for the samples taken from the tank and/or piping closure site. A laboratory report must be submitted to SAM within 30 days. Please request that the laboratory send a copy of the analytical report directly to Pamela Villa Clay at the address provided below.

SAM Division has completed its review of the analytical results for samples collected at the tank closure site and has determined the following:

☐ **TANK CLOSURE COMPLETE - NO FURTHER ACTION REQUIRED**

☒ ~~INITIATE~~ CONTINUE **CORRECTIVE ACTION MEASURES** (See enclosed information)

Approved by: Pamela Villa Clay Date Reviewed: 5/1/98 Supervisor (initial): mcv

RECEIVED BY Steve Haggerty

PRINTED NAME Steve Haggerty

PHONE NUMBER 619 238 8338

Pamela Villa Clay
Hazardous Materials Specialist
SAM P.O. Box 129261
San Diego, CA 92112-9261 (619) 338-2222

DISTRIBUTION: WHITE-RETURN TO SAM
YELLOW-BUSINESS RETAINS

Type(s) of hazardous substance(s) released (mark all that apply): unknown at this time

☐ Gasoline ☐ Diesel ☐ Waste oil ☐ Other open case UR #19469-001

Is hazardous material ponded? ☐ Yes* ☒ No *Estimated amount? N/A

Estimated depth to groundwater below this site: 18 feet per D. Felix Beneficial use? ☒ Yes ☐ No

SOIL CONDITIONS (Odors, Staining, Volume):

Describe backfill and its condition: see front

Describe native soil and its condition: see front

How was hazardous substance released?

Tank condition (holes, corrosion, wrapping, seams, evidence of overfill) see front

Estimated length of piping removed? ~25 feet

Date tanks last used? 10/97 or earlier

Nearby water wells or surface waters? ☒ Yes* ☐ None noted

*Describe San Diego River approx. 1/4-1/2 mile west of site

Any known sensitive receptors, i.e., underground vaults, utilities or basements nearby? ☐ Yes* ☒ None noted

*Describe

COMMENTS:

SITE ASSESSMENT AND MITIGATION DIVISION

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT

page 2 of 2

ESTABLISHMENT NO. H19469 PLAN CHECK NO. AT4031

SITE NAME El Capitan Oil PHONE

SITE ADDRESS 11427 Woodside Ave. CITY Santee, CA ZIP 92071

CONTRACTOR SouthBay Environmental Services PHONE (619) 238-8338

Number of tanks to be removed 1 2 3 4 5 6 7 8 (9)

Decontamination by South Bay sandblasting + Tank Cleaning

Manifest No. To be provided

Tank rinsate/(amount & destination) 18000 gallons - D/K

FIRE AGENCY PRESENT (YES) NO

Dept. City of Santee

Permit No. 98-057

Inspector P. Davis

Tank ID No.	6	7	8	9	REMARKS
Capacity	6000	6000	6000	6000	see comments
Tank Construction	steel	steel	steel	steel	(A) (B) (C) (D) (E) (F)
Materials stored	diesel	diesel	diesel	diesel/kerosene	described on
% L.E.L.	0%	0%	0%	0%	page 1 of 2.
Dry ice/other (amt.)	90 lbs	→	→	→	
Tank condition	(A)	(A)	(A)	(A)	(G) Strong petroleum
Backfill soil type	sand	→	→	→	HC odors.
Backfill condition	(B) (G)	→	→	→	
Native soil type	sand w/	some red clay	→	→	Note: very sandy soil
Native condition	(B) (F)	→	→	→	and caving in and
Excavation odors?	slight	→	→	→	ground perimeter of
Stockpile odors?	slight	→	→	→	excavation. Excavation
Water present?	no	→	→	→	to be backfilled to
Ponded product?	no	→	→	→	approx. 2 ft. bgs and/or
Piping removed?	yes	yes	yes	yes	wrapped w/ K-rail.

REINSPECTION REQUIRED YES (NO) If yes, explain

NOTICE: You are hereby notified that on 4/29/98 a Hazardous Materials Specialist conducted an inspection for the closure of nine (9) hazardous substance underground storage tank(s). A summary of the conditions follows:
(see page 1 of 2 for previous 5 USTs)

☐ An **unauthorized release** of a hazardous substance has been observed by the Hazardous Materials Specialist. You are hereby required to initiate **Corrective Action** measures (see Page 4 for details).

☒ A determination of this site's status is pending the Site Assessment and Mitigation (SAM) Division's receipt and review of analytical results for the samples taken from the tank and/or piping closure site. A laboratory report must be submitted to SAM within 30 days. Please request that the laboratory send a copy of the analytical report directly to Pamela Villa Clay at the address provided below.

SAM Division has completed its review of the analytical results for samples collected at the tank closure site and has determined the following:

☐ **TANK CLOSURE COMPLETE - NO FURTHER ACTION REQUIRED**

☒ ~~INITIATE~~ CONTINUE **CORRECTIVE ACTION MEASURES** (See enclosed information)

Approved by: Pam Villa-Clay Date Reviewed: 5/11/98 Supervisor (initial): MOW

RECEIVED BY [signature]

PRINTED NAME Steve Haggerty

PHONE NUMBER 238 8330

[signature]

Hazardous Materials Specialist
SAM P.O. Box 129261
San Diego, CA 92112-9261 (619) 338-2222

DISTRIBUTION: WHITE-RETURN TO SAM
YELLOW-BUSINESS RETAINS

see back on page (2 of 4) of p. 1 of 2

Type(s) of hazardous substance(s) released (mark all that apply):

☐ Gasoline ☐ Diesel ☐ Waste oil ☐ Other _____

Is hazardous material ponded? ☐ Yes* ☐ No *Estimated amount? _____

Estimated depth to groundwater below this site: _____ feet Beneficial use? ☐ Yes ☐ No

SOIL CONDITIONS (Odors, Staining, Volume):

Describe backfill and its condition: _____

Describe native soil and its condition: _____

How was hazardous substance released? _____

Tank condition (holes, corrosion, wrapping, seams, evidence of overfill) _____

Estimated length of piping removed? _____ feet Date tanks last used? _____

Nearby water wells or surface waters? ☐ Yes* ☐ None noted

*Describe _____

Any known sensitive receptors, i.e., underground vaults, utilities or basements nearby? ☐ Yes* ☐ None noted

*Describe _____

COMMENTS: _____

FIELD NOTES

Date: 4/29/98

H 19469

(AT)NT 4031

Tank(s) last used: 10/97

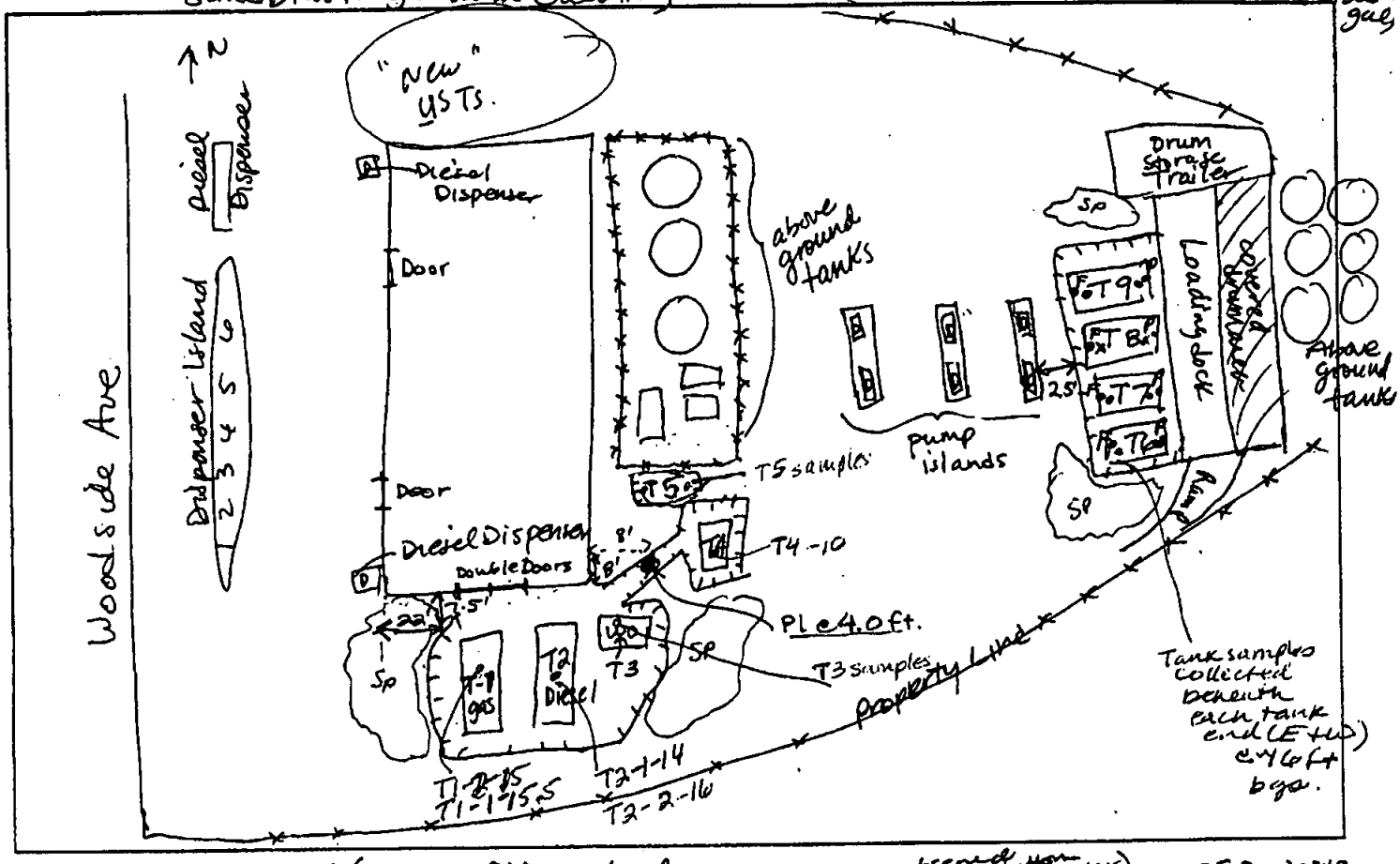
Approx. age of tank(s): 4 diesel USTs installed ~1970; others unknown

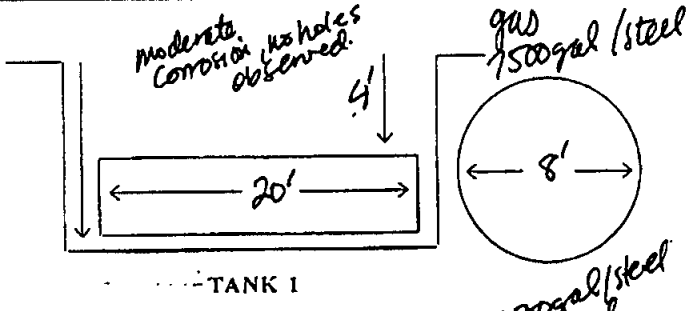
Tank(s) destination: Pacific Coast Recycling, SD. CA

Manifest #: _____ Gallons: 1800 to: DeMenno Kerdoon

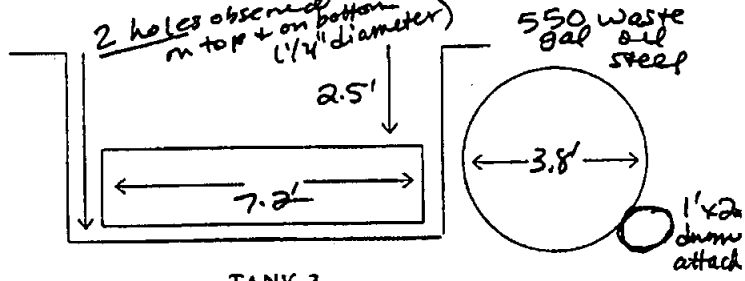
T3+T5 4-6K (T6→T9

Decontamination by: South Bay Sandblasting & Tank Cleaning lbs. dry ice: (1) 150 (2) 150 (3) 10-15 (4) 90 lb T4: 25K (2500 gal)

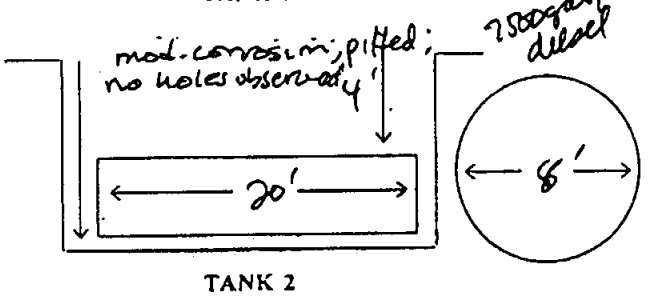




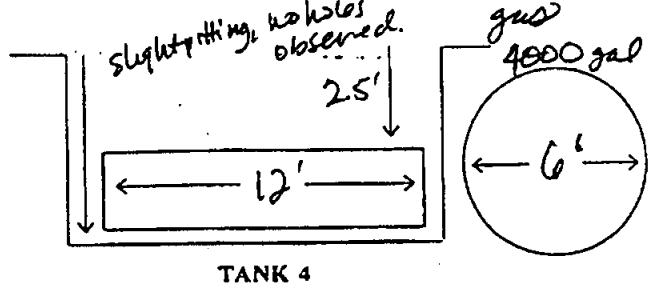
TANK 1



TANK 3



TANK 2



TANK 4

TANK 5 : waste oil ; steel ; 7.2' x 3.8 ft. ; good cond ; no holes observed ; 2.5 ft. burial

FIELD NOTES

Date: 4.29.98

H 19469

AT/NT 4031

Tank(s) last used: 10/97 (NT permit approved 7/97)

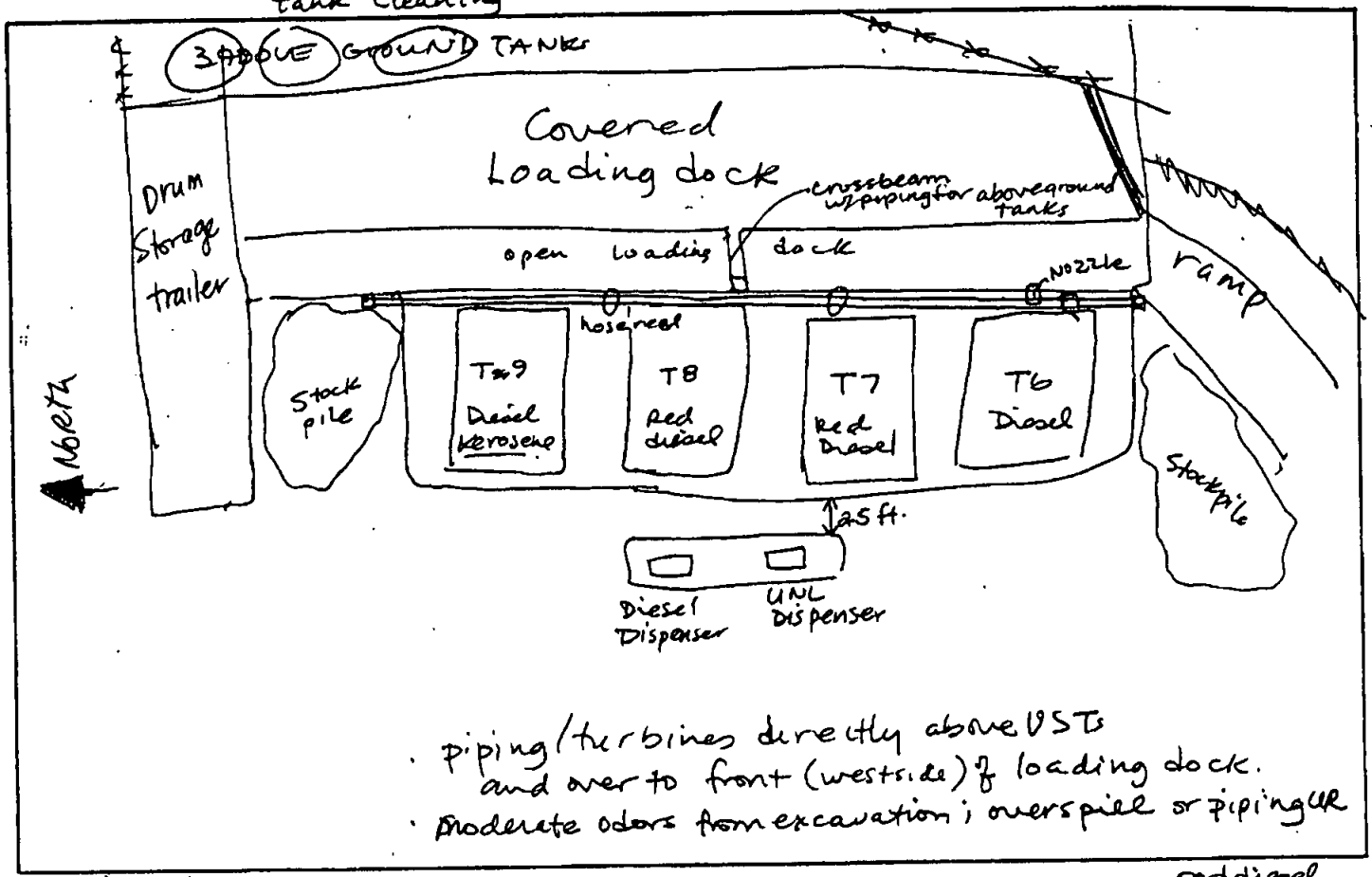
Approx. age of tank(s): (installed 1970s)

NT 1976 new piping/ new tanks installed

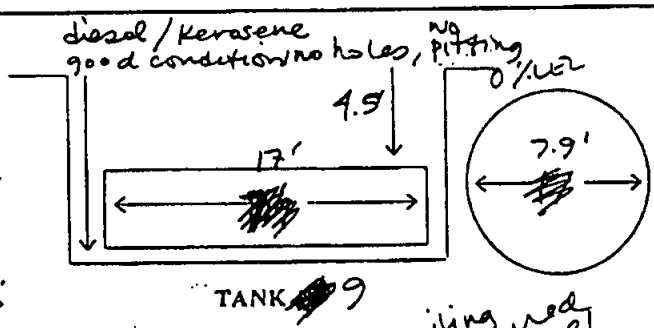
Tank(s) destination: Pacific Coast Recycling – Commercial 30th – San Diego

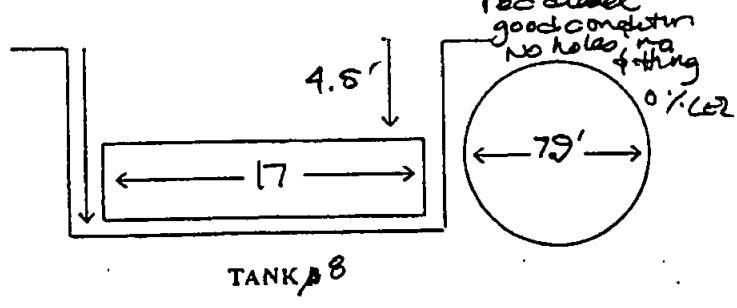
Manifest #: _____ Gallons: _____ to: _____

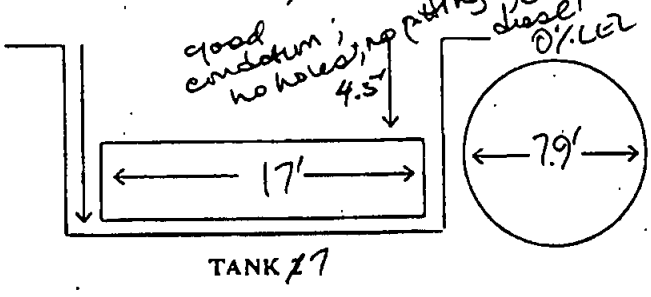
Decontamination by: South Bay Sandblasting & Tank Cleaning lbs. dry ice: (6) 90 (7) 90 (8) 90 (9) 90

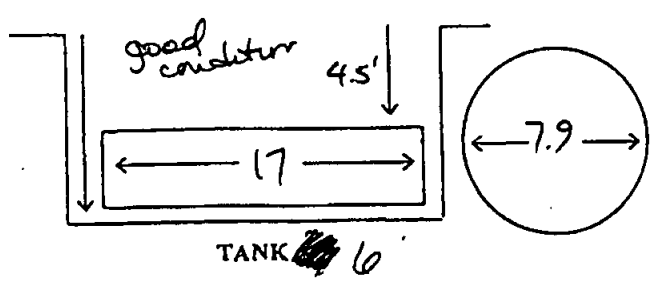


- piping/turbines directly above USTs and over to front (west side) of loading dock.
- moderate odors from excavation; overspill or piping UR

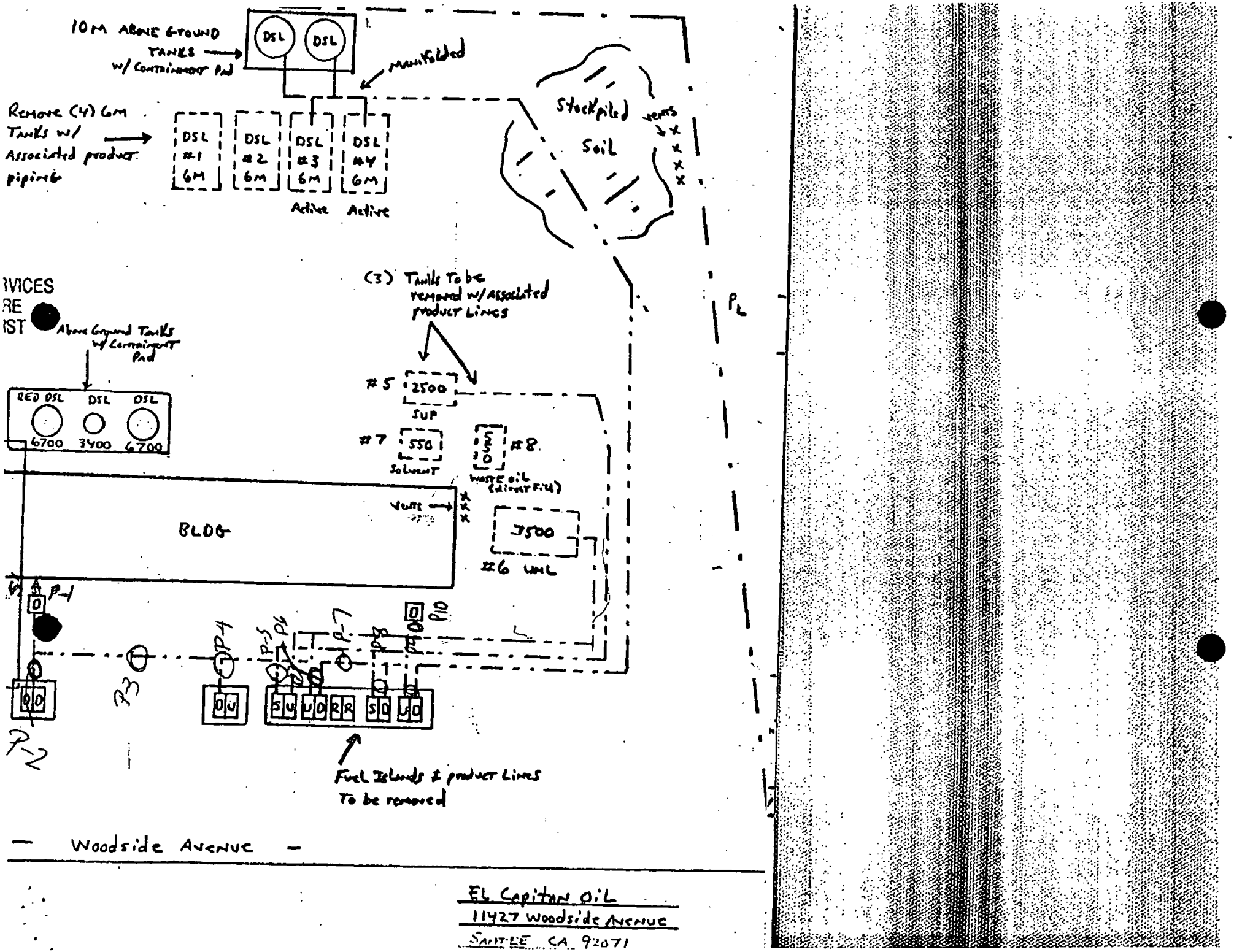






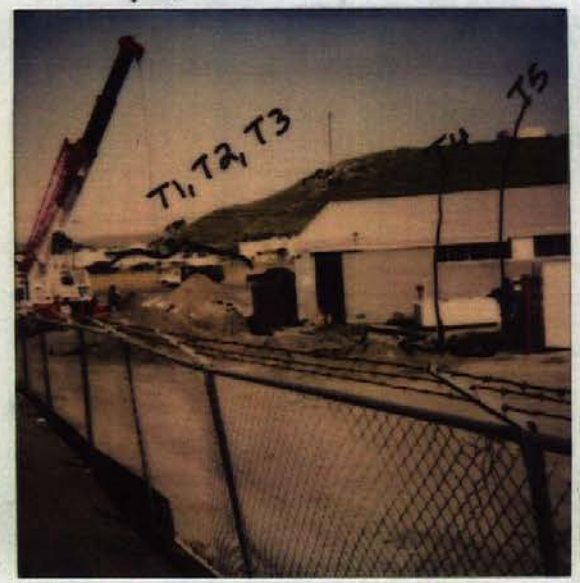


V. Sandy Soil



El Capitan Oil
11427 Woodside Avenue
Santee CA 92071

PHOTO 1



- stockpiles surround excavation of Tank 1, 2, 3 & south of Bldg.
- Location of Tank 4 & Tank 5C east on Bldg

PHOTO 2



View Looking West

#19469
4/29/98
PVC

PHOTO 3



- stockpile @ south end of excavation for Tank 6-79.
- View looking west.

PHOTO 4

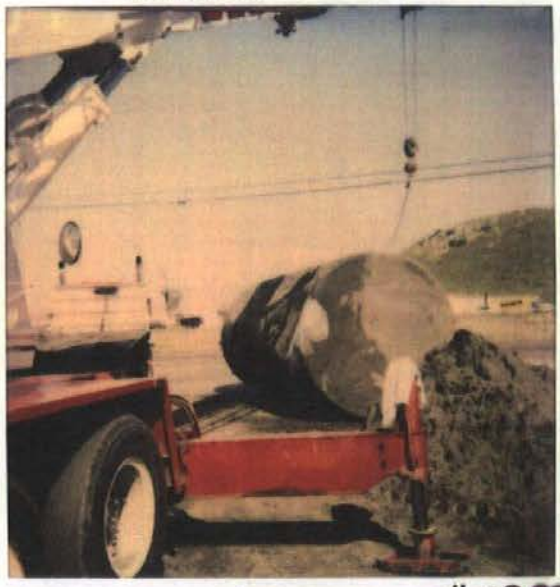


H194169

T-1 Tank 1 bottom

4-29-98 PVC

PHOTO 5

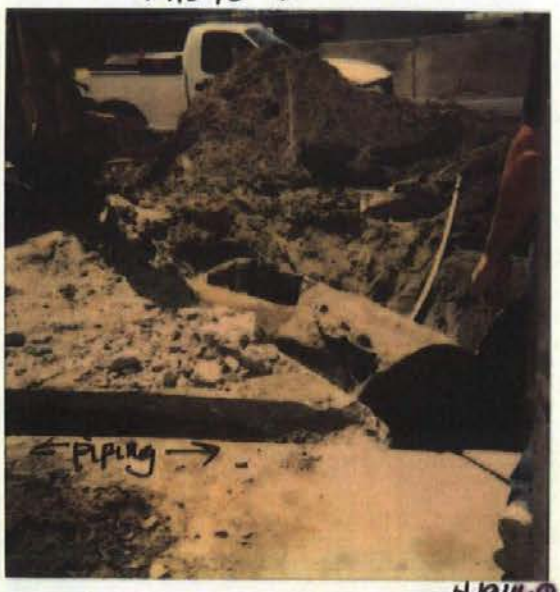


4-29-98
H194169

T-2
Diesel
7500 gal
Tank 2
(Diesel UST)

PVC

PHOTO 6



H194169

T-3
W.O.
View looking south
of Tank 3
(W.O. UST).
4/29/98

PHOTO 7



H194169
4/29/98
Tank 3 w/smaller tank
attached

PVC

PHOTO 8



View to SW
from Tank 4

PHOTO 9

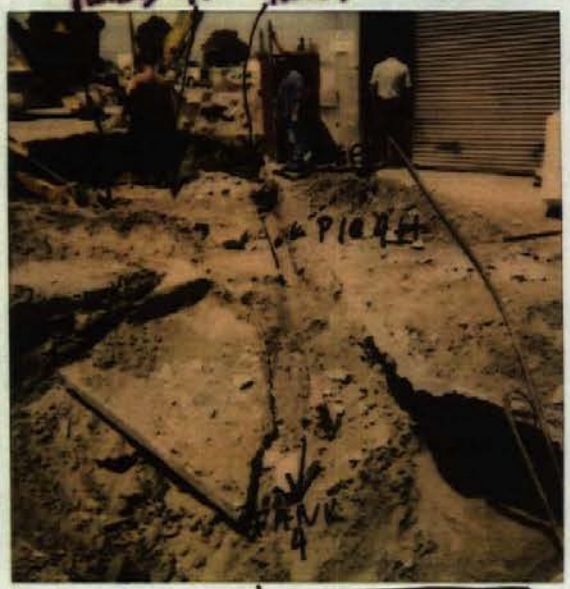


T4 Tank 4 (gasoline UST)

H19469
PVC
4-29-98

PHOTO 10

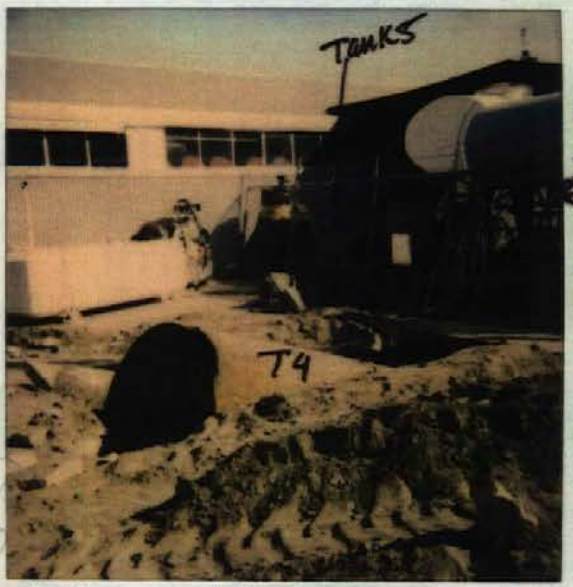
TANK 3 T2 TANK 1



T-4 (Tank 4) excavation w/ piping to excav. of T1, T2, T3

View to SW from Tank 4

PHOTO 11



above ground tanks

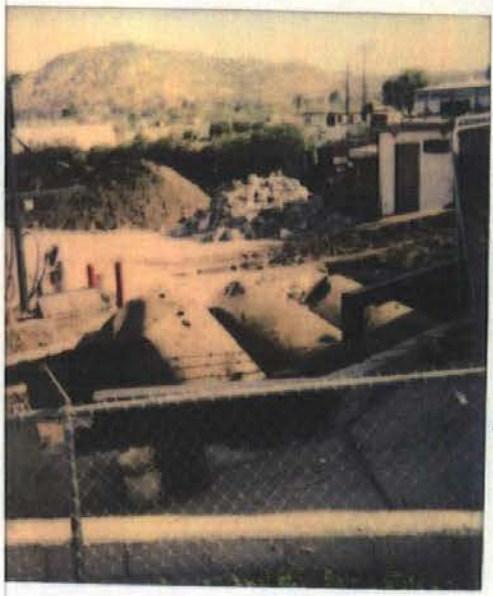
H19469
4-29-98
PVC

Looking west/NW from Tank 4 @ Bldg + above ground tanks

PHOTO 12

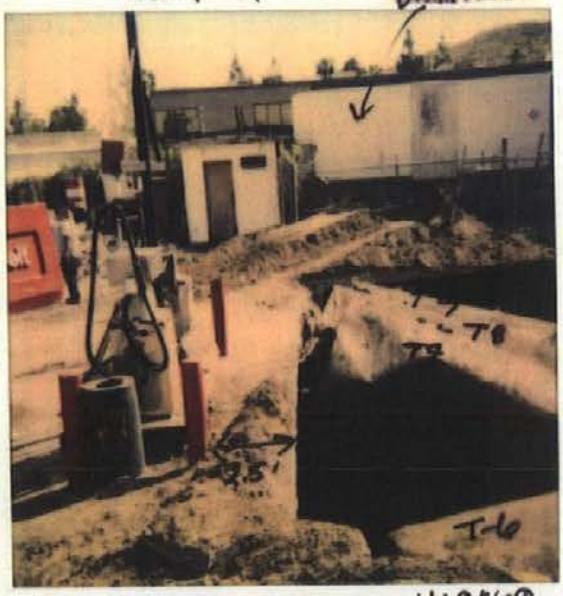


PHOTO 13



see photo 14 + 15 for continue view to East.

PHOTO 14



4 USTs (diesel) excavation (Looking North)

HI9469
4/29/98
pvc

PHOTO 15



SAM Chain-of-Custody Record

Date 4/29/98 Page 2 of 2

Project Name El Capitan Oil
Reference
Address 11427 Woodside Ave
Santee, CA 92071
Sampler's Signature
Lab To Be Used MOBILE ONE

SAMPLE NO.	DATE	TIME	LOCATION	TPH DOHS METHOD	TRPH EPA 418.1	BTXE (8020/602)	HALOGENATED (8010/601)			SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
T2-2-16	4/29/98	12:45	sample beneath former Tank 2 @ 16' bgs	X						X		X		1	
T9-E-15.5	4/29/98	12:55	east end of Tank 9 @ 15.5 ft. bgs.	X						X		X		1	please provide
T9W-17	4/29/98	1:00	west end of Tank 9 @ 17 ft. bgs	X						X		X		1	DF Carbon
T8E-16	4/29/98	1:03	east end of Tank 8 @ 16 ft. bgs	X						X		X		1	range
T8W-16	4/29/98	1:07	west end of Tank 8 @ 16 ft. bgs	X						X		X		1	
T7W-16	4/29/98	1:09	west end of Tank 7 @ 16' bgs	X						X		X		1	
T7E-16	4/29/98	1:10	east end of Tank 7 @ 16 bgs	X						X		X		1	
T6-E-16	4/29/98	1:12	east end of Tank 6 @ 16 ft. bgs	X						X		X		1	
T6-W-16.5	4/29/98	1:14	west end of Tank 6 @ 16.5 ft. bgs	X						X		X		1	

ANALYSIS REQUESTED

SAMPLE TYPE

COPY OF LAB RESULTS MUST BE SENT TO:
Dept. of Environmental Health
Site Assessment and Mitigation Division
P.O. Box 85261
San Diego, CA 92186-5261

COMMENTS

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
Signature Steve Hungerford	4/29/98	Signature		Signature	
Printed Name	Time 1:36	Printed Name	Time	Printed Name	Time
Company		Company		Company	
RECEIVED BY	Date	RECEIVED BY	Date	RECEIVED BY (LAB)	Date
Signature		Signature		Signature	
Printed Name	Time	Printed Name	Time	Printed Name	Time
Company		Company		Company	

9 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice N/A Yes/No
Tape Seal Intact Yes/No

Special Shipment/Handling Or Storage Requirements: None
mobile lab on site

Split Sample Location
none

Site Identification
H# 19409 AT# 4031

SAM Pamela Villa-Clay

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - SAM

DEH:SAM-999 (8/95) NCR

County of San Diego
Department of Environmental Health

SAM Chain-of-Custody Record

Date 4/29/98 Page 1 of 2

Project Name El Capitan Oil
Reference
Address 11427 Woodside Ave.
Santee, CA 92071
Sampler's Signature
Lab To Be Used MOBILE ONE

SAMPLE NO.	DATE	TIME	LOCATION	TPH DOHS METHOD	TRPH EPA 418.1	BTXE/mTBE (8020/602)	HALOGENATED (8010/601)		TPH ext.	SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
T5-E-6.3	4/29/98	11:57	East end of W.O. tank, Tank 5 @ 6.3 ft. bgs		X					X		X		1	
T5-W-6	4/29/98	11:58	Westend of W.O. tank Tank 5 @ 6.0 ft bgs		X					X		X		1	Please provide
T3-7.5	4/29/98	12:04	collected below T3-6.4 vertical sample @ 7.5'		X				X	X		X		1	carbon range
T3-6.4	4/29/98	12:02	collected below W.O. tank Tank 3 @ 6.4 ft. bgs		X					X		X		1	
P1-4.0	4/29/98	12:18	Piping sample @ 4.0' bgs 8 ft. from Bldg 8 North	X						X		X		1	BTEX / mTBE
T4-10	4/29/98	12:11	10 ft. bgs middle of T4 (aw) @ 10 ft. bgs.	X						X		X		1	requested by PVC
T1-1-15.5	4/29/98	12:38	collected beneath sample T1-2-15	X		X	PVC		PVC	X		X		1	County Inspector.
T1-2-15	4/29/98	12:40	center of Tank 1 @ 15 ft. bgs	X		X				X		X		1	
T2-1-14	4/29/98	12:44	collected from center of Tank 2 @ 14 ft. bgs.	X						X		X		1	

COPY OF LAB RESULTS MUST BE SENT TO:
Dept. of Environmental Health
Site Assessment and Mitigation Division
P.O. Box 85261
San Diego, CA 92186-5261

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
Signature	4/29/98	Signature		Signature	
Printed Name Steve Hoggatt	Time 1:36	Printed Name	Time	Printed Name	Time
Company		Company		Company	
RECEIVED BY	Date	RECEIVED BY	Date	RECEIVED BY (LAB)	Date
Signature		Signature		Signature	
Printed Name	Time	Printed Name	Time	Printed Name	Time
Company		Company		Company	

9 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice N/A Yes/No
Tape Seal Intact N/A Yes/No
Special Shipment/Handling Or Storage Requirements: None
mobile lab onsite.

Split Sample Location
none

Site Identification
H# 19469 AT# 4031
SAM Pamela Villa Clay

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - SAM

DEH:SAM-999 (8/95) NCR

County of San Diego
Department of Environmental Health

Note to file : H19469
AT 4031

David Felix, SAM project manager, for existing open unauthorized release (UR) at this site wants to continue UST investigation + c/u under existing UR file. Requested inspector collect samples @ UST closure inspection to aid in assessment @ site.

PVC

MOBILE ONE LABORATORIES INC.

Defelsko

RECEIVED
MAY 8 10 58 AM '98
ENVIRONMENTAL HEALTH SERVICES

5/4/98

S & L
P.O. Box 712994
Santee CA 92072-2994

Project Name: El Capitan Oil
Project No.: Site ID H# 19469 AT# 4031

Attention:
cc: Mr. Steve Haggerty, South Bay Environmental Services
cc: Ms. Pamela Villa Clay, County of San Diego, SAM

Mobile One Laboratories received and analyzed the following sample(s):

Date Received	Quantity	Matrix
04/29/98	18	soil

The samples were analyzed by one or more of the EPA methodologies or equivalent methods as specified below.

TPH -- CA DHS "Total Petroleum Hydrocarbons"
BTEX -- EPA Method 8020
TRPH -- EPA Method 418.1, modified for soils
VOCs -- EPA Method 8260

The results are included with a summary of the quality control procedures. Please note that the symbol "nd" indicates a value below the reporting limit for the particular compound in the sample. Flags qualifying the data are explained in footnotes on the same report page as they occur.

Please feel free to call us to discuss any part of this report or to schedule future projects.

Sincerely,

Rebecca L. Johnson
President

James E. Picker, Ph.D
Lab Director

Mobile One Laboratories is certified by the California Department of Health Services (certificate #s: 1194, 1561, 1921, 2088), and the Arizona Department of Health Services (certificate #: AZM466).

MOL Project # SB3

148 SO. VINEWOOD STREET • ESCONDIDO, CA 92029 • PHONE (760) 735-3208 • FAX (760) 735-2469

MOBILE ONE LABORATORIES INC.

Report Summary

Client: South Bay Environmental Services
Project: El Capitan Oil
Matrix: soil

Method	TPH gasoline	TPH diesel	TRPH	MTBE **	Benzene	Toluene	Ethyl-benzene	Xylenes
Detection Limit (mg/kg)	10	10	10	0.1	0.05	0.05	0.05	0.15
SAMPLE I.D.								
Date Analyzed: 04/29/98								
T1-1-15.5'	nd	nd						
T1-2-15'	400&	2,000#		3.7**	0.12	0.95	11	64
T2-1-14'	nd	11#						
T2-2-16'	nd	nd						
T3-6.4'			4,300					
T4-10'	820&	nd						
T5-E-6.3'			260					
T5-W-6'			5,900					
T6-E-16'	nd	1,100						
T6-W-16.5'	nd	1,800						
T7-E-16'	nd	800						
T7-W-16'	nd	23,000						
T8-E-16'	nd	25						
T8-W-16'	nd	1,900						
T9-E-15.5'	nd	30						
T9-W-17'	nd	4,200						
P1-4.0'	nd	370#						

Method	TPH gasoline	TPH diesel	TPH C_{25}-C_{44}	TRPH	Benzene	Toluene	Ethyl-benzene	Xylenes
Detection Limit (mg/kg)	10	10	10	10	0.05	0.05	0.05	0.15
T3-9.5'	220&	1200#	190	1,900				

nd = not found above the detection limit
& = gasoline range organics (C_6-C_{12}) not identified as gasoline
# = diesel range organics (C_{13}-C_{24}) not identified as diesel
* = sample dilution was required. Detection limits were adjusted accordingly.
** = This compound has been screened by EPA method 8020. Any positive results should be confirmed by a second analysis.
= A second analysis has been performed on this sample by Mass Spectrometry. The results are as indicated.
Analyses performed by: Bret Hutchinson

SB3

148 SO. VINEWOOD STREET • ESCONDIDO, CA 92029 • PHONE (760) 735-3208 • FAX (760) 735-2469

MOBILE ONE LABORATORIES INC.

QC Summary

Client: South Bay Environmental Services
Project: El Capitan Oil
Matrix: soil

Method	TPH gasoline	TPH diesel	TRPH	MTBE	Benzene	Toluene	Ethyl-benzene	Xylenes
APR - % QC Limits	(67-125)	(67-125)	(75-126)	(60-125)	(60-125)	(59-125)	(52-125)	(60-127)
RPD - % QC Limits	<30	<30	<30	<30	<30	<30	<30	<30
Date Analyzed: 04/29/98								
Spike Level (mg/kg)	151	251						
MS Amount Found	144	243						
MSD Amount Found	157	254						
APR - %	99.7	99.0						
RPD - %	8.6	4.4						
Date Analyzed: 04/29/98								
Spike Level (mg/kg)			82	2.00	0.100	0.100	0.100	0.300
LCS Amount Found			81	2.13	0.089	0.091	0.096	0.289
LCSD Amount Found			76	2.26	0.096	0.095	0.097	0.295
APR - %			95.7	109.7	92.5	93.0	96.5	97.3
RPD - %			6.4	6.2	7.6	4.3	1.0	2.1

Calibration verification was within acceptable limits.
No contamination was found in method blanks at detectable levels.

SB3

148 SO. VINEWOOD STREET • ESCONDIDO, CA 92029 • PHONE (760) 735-3208 • FAX (760) 735-2469

SAM Chain-of-Custody Record

Date 4/29/98 Page 1 of 2

Project Name: El Capitan Oil
Reference:
Address: 11427 Woodside Ave. Santee, CA 92071
Sampler's Signature:
Lab To Be Used: MOBILE ONE

SAMPLE NO.	DATE	TIME	LOCATION	TPH DOHS METHOD	TRPH EPA 418.1	BTXE/mTBE (8020/602)	HALOGENATED (8010/601)		TPH ext.	SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
T5-E-6.3	4/29/98	11:57	East end of W.O. tank, Tank 5 @ 6.3 ft. bgs		X					X		X		1	
T5-W-6	4/29/98	11:52	west end of W.O. tank Tank 5 @ 6.0 ft bgs		X					X		X		1	Please provide
T3-9.5	4/29/98	12:04	collected below T3-6.4 vertical sample @ 9.5'		X				X	X		X		1	carbon range
T3-6.4	4/29/98	12:02	collected below W.O. Tank Tank 3 @ 6.4 ft. bgs		X					X		X		1	
P1-4.0	4/29/98	12:18	piping sample @ 4.0' bgs 8 ft. from Bldg-8' North	X						X		X		1	BTEX / mTBE
T4-10	4/29/98	12:11	10 ft. bgs middle of T4 (gap) @ 10 ft. bgs.	X						X		X		1	requested by PVC
T1-1-15.5	4/29/98	12:38	collected beneath sample T1-2-15	X		X	PVC		PVC	X		X		1	County Inspector.
T1-2-15	4/29/98	12:40	center of Tank 1 @ 15 ft. bgs	X		X				X		X		1	
T2-1-14	4/29/98	12:44	collected from center of Tank 2 @ 14 ft. bgs.	X						X		X		1	

ANALYSIS REQUESTED | SAMPLE TYPE

COPY OF LAB RESULTS MUST BE SENT TO:
Dept. of Environmental Health
Site Assessment and Mitigation Division
P.O. Box 85261
San Diego, CA 92186-5261

COMMENTS

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
Signature:	4/29/98	Signature		Signature	
Printed Name: Steve Hoggatt	Time: 1:36	Printed Name		Printed Name	
Company		Company		Company	
RECEIVED BY: Bret Hutchinson	Date: 4/29/98	RECEIVED BY		RECEIVED BY (LAB)	
Signature	Time: 1:36	Signature		Signature	
Printed Name: MOL		Printed Name		Printed Name	
Company		Company		Company	

9 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice N/A Yes/No
Tape Seal Intact N/A Yes/No

Special Shipment/Handling Or Storage Requirements: None
mobile lab onsite.

Split Sample Location: none

Site Identification
H# 19469 AT# 4031
SAM Pamela Vella Clay

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - SAM

DEH:SAM-999 (8/95) NCR

County of San Diego
Department of Environmental Health

SAM Chain-of-Custody Record

Date 4/29/98 Page 2 of 2

Project Name: El Capitan Oil
Reference
Address: 11427 Woodside Ave, Santee, CA 92071
Sampler's Signature: [signature]
Lab To Be Used: MOBILE ONE

SAMPLE NO.	DATE	TIME	LOCATION	TPH DOHS METHOD	TRPH EPA 418.1	BTXE (8020/602)	HALOGENATED (8010/601)			SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
T2-2-16	4/29/98	12:45	sample beneath former Tank 2 @ 16' bgs; below T2-1-14	X						X		X		1	
T9-E-15.5	4/29/98	12:55	East end of Tank 9 @ 15.5 ft. bgs.	X						X		X		1	please provide
T9W-17	4/29/98	1:00	west end of Tank 9 @ 17 ft. bgs	X						X		X		1	~~BT~~ Carbon
T8E-16	4/29/98	1:03	east end of Tank 8 @ 16 ft. bgs	X						X		X		1	range
T8W-16	4/29/98	1:07	west end of Tank 8 @ 16 ft. bgs	X						X		X		1	
T7-W-16	4/29/98	1:09	west end of Tank 7 @ 16' bgs	X						X		X		1	
T7-E-16	4/29/98	1:10	east end of Tank 7 @ 16' bgs	X						X		X		1	
T6-E-16	4/29/98	1:12	east end of Tank 6 @ 16 ft. bgs	X						X		X		1	
T6-W-16.5	4/29/98	1:14	west end of Tank 6 @ 16.5 ft. bgs	X						X		X		1	

ANALYSIS REQUESTED / SAMPLE TYPE

COPY OF LAB RESULTS MUST BE SENT TO:
Dept. of Environmental Health
Site Assessment and
Mitigation Division
P.O. Box 85261
San Diego, CA 92186-5261

COMMENTS

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
[signature]	4/29/98				
Signature: Steve Hargett	Time: 1:36	Signature	Time	Signature	Time
Printed Name		Printed Name		Printed Name	
Company		Company		Company	
RECEIVED BY: [signature]	Date: 4/29/98	RECEIVED BY	Date	RECEIVED BY (LAB)	Date
Signature: BRET HUTCHINSON	Time: 1:36	Signature	Time	Signature	Time
Printed Name: MOL		Printed Name		Printed Name	
Company		Company		Company	

9 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice: N/A Yes/No
Tape Seal Intact: Yes/No

Special Shipment/Handling Or Storage Requirements: None
mobile lab on site

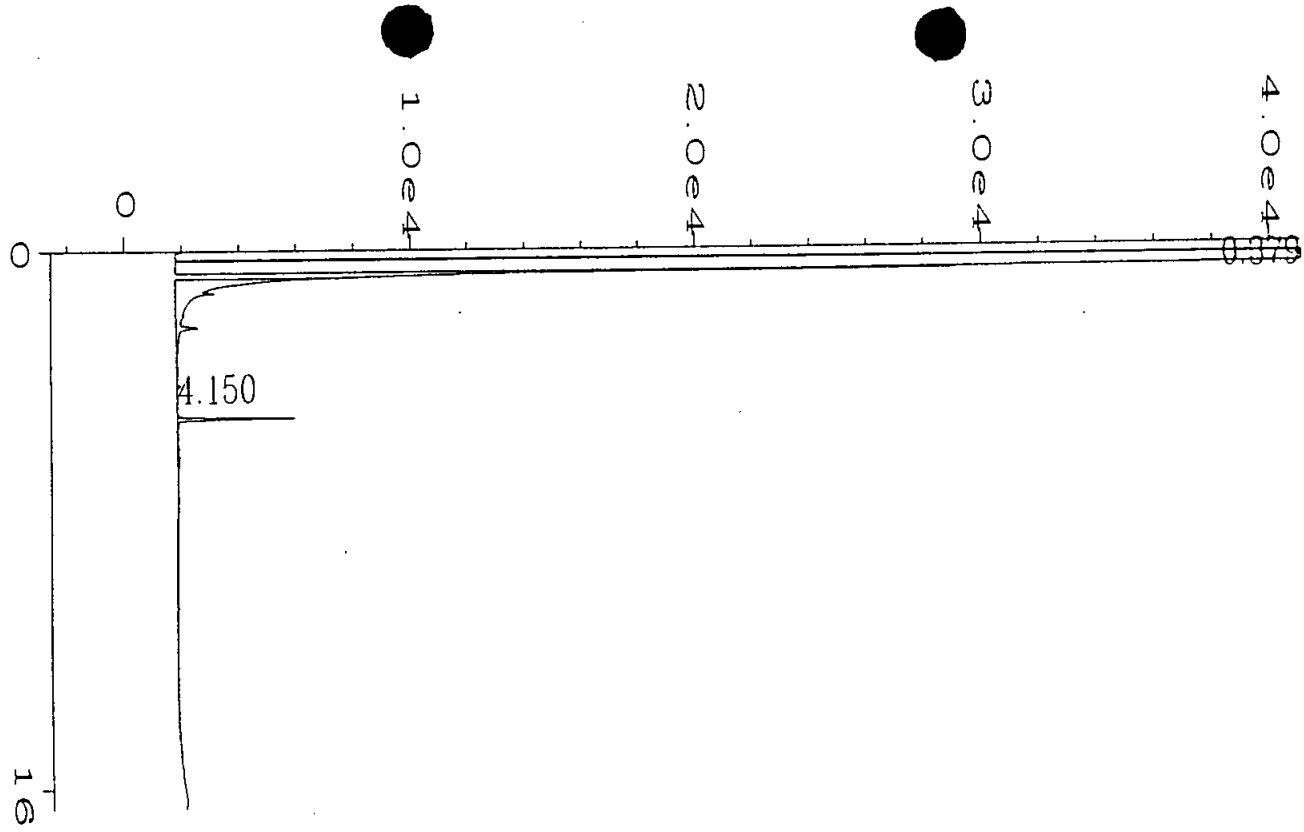
Split Sample Location: none

Site Identification
H# 19469 AT# 4031
SAM Pamela Villa Clay

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - SAM

DEH:SAM-999 (8/95) NCR

County of San Diego
Department of Environmental Health



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External Standard Report

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Data File Name : C:\HPCHEM\1\DATA\042998\030R0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T1-1@15.5'
Run Time Bar Code:
Acquired on : 29 Apr 98 01:29 PM
Report Created on: 29 Apr 98 01:52 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

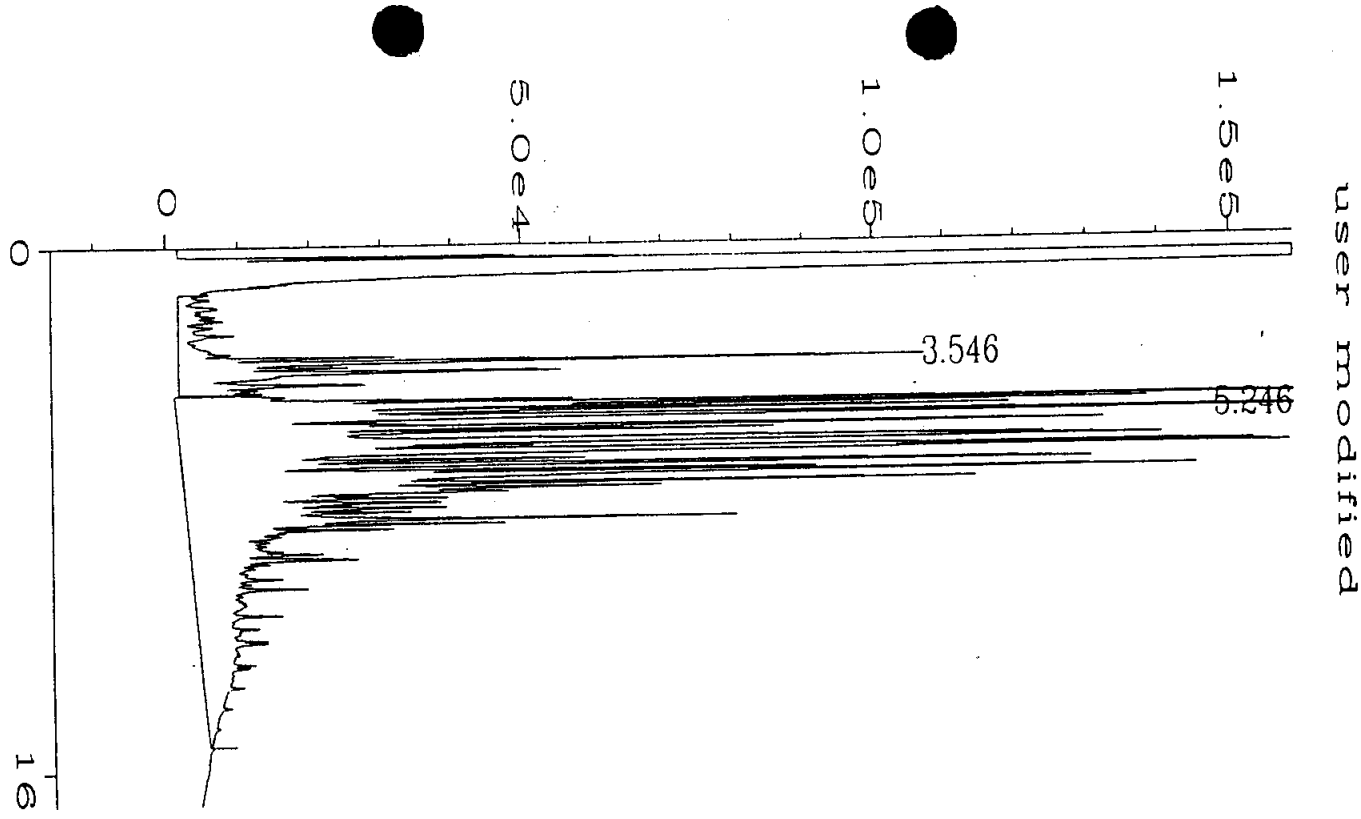
Page Number : 1
Vial Number : 30
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHF0506.MTH
Analysis Method : TPHREAR.MTH
Sample Amount : 0
ISTD Amount :

Sig. 2 in C:\HPCHEM\1\DATA\042998\030R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
4.150	112159	VB +	0.000	1	~~17~~ nd ~~47~~	gasoline
12.252	* not found *			1		diesel

Not all calibrated peaks were found

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External Standard Report

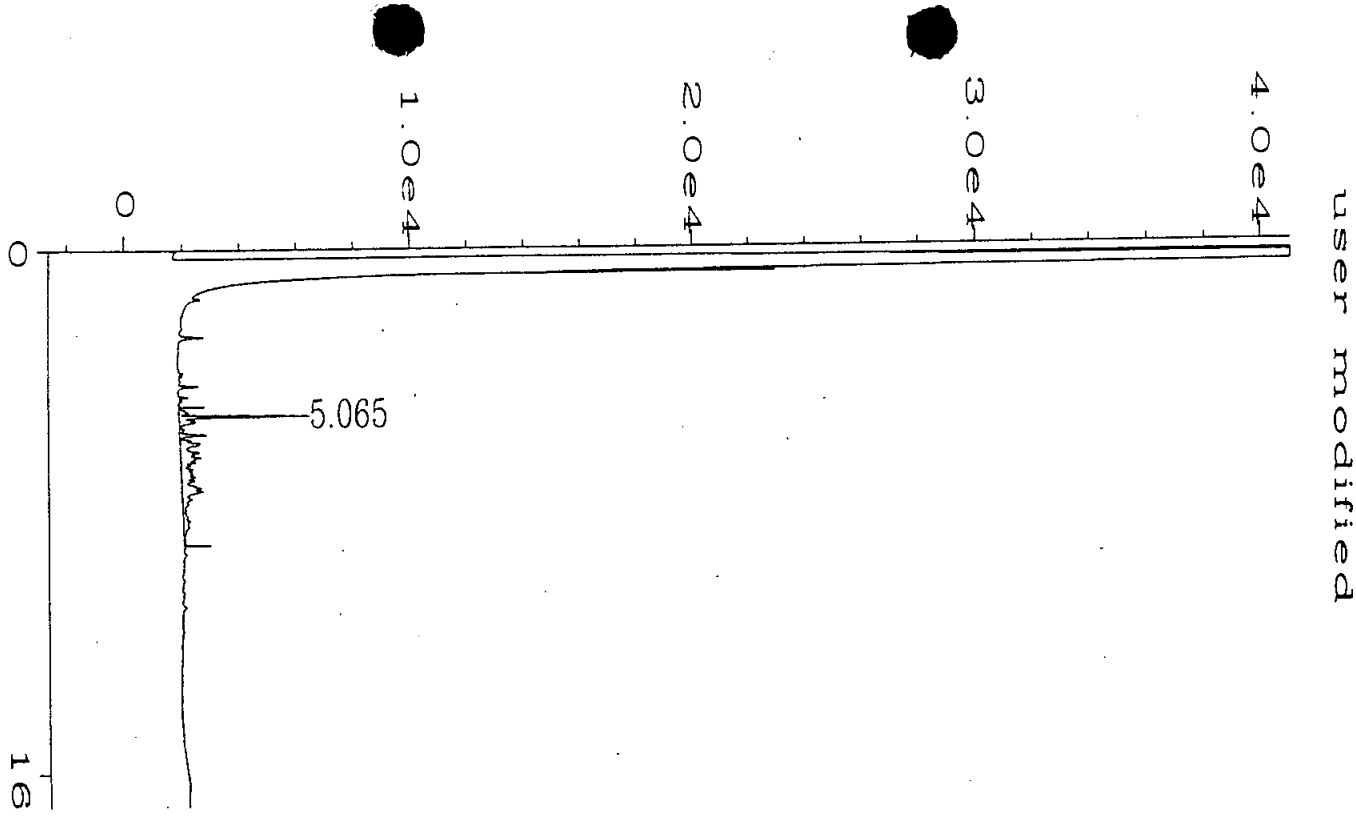
Data File Name : C:\HPCHEM\1\DATA\042998\006F0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T1-2@15'
Run Time Bar Code:
Acquired on : 29 Apr 98 01:53 PM
Report Created on: 29 Apr 98 02:21 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHF0506.MTH
Analysis Method : TPHF0403.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\042998\006F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
3.546	1715204	MM	0.270	1	401.351	gasoline range
5.246	1.50006E+007	MM	0.569	1	1953.676	diesel range

User Modified



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External Standard Report

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Data File Name	: C:\HPCHEM\1\DATA\042998\031R0101.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 31
Sample Name	: T2-1@14'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 01:53 PM	Instrument Method	: TPHF0506.MTH
Report Created on	: 29 Apr 98 02:22 PM	Analysis Method	: TPHR0403.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

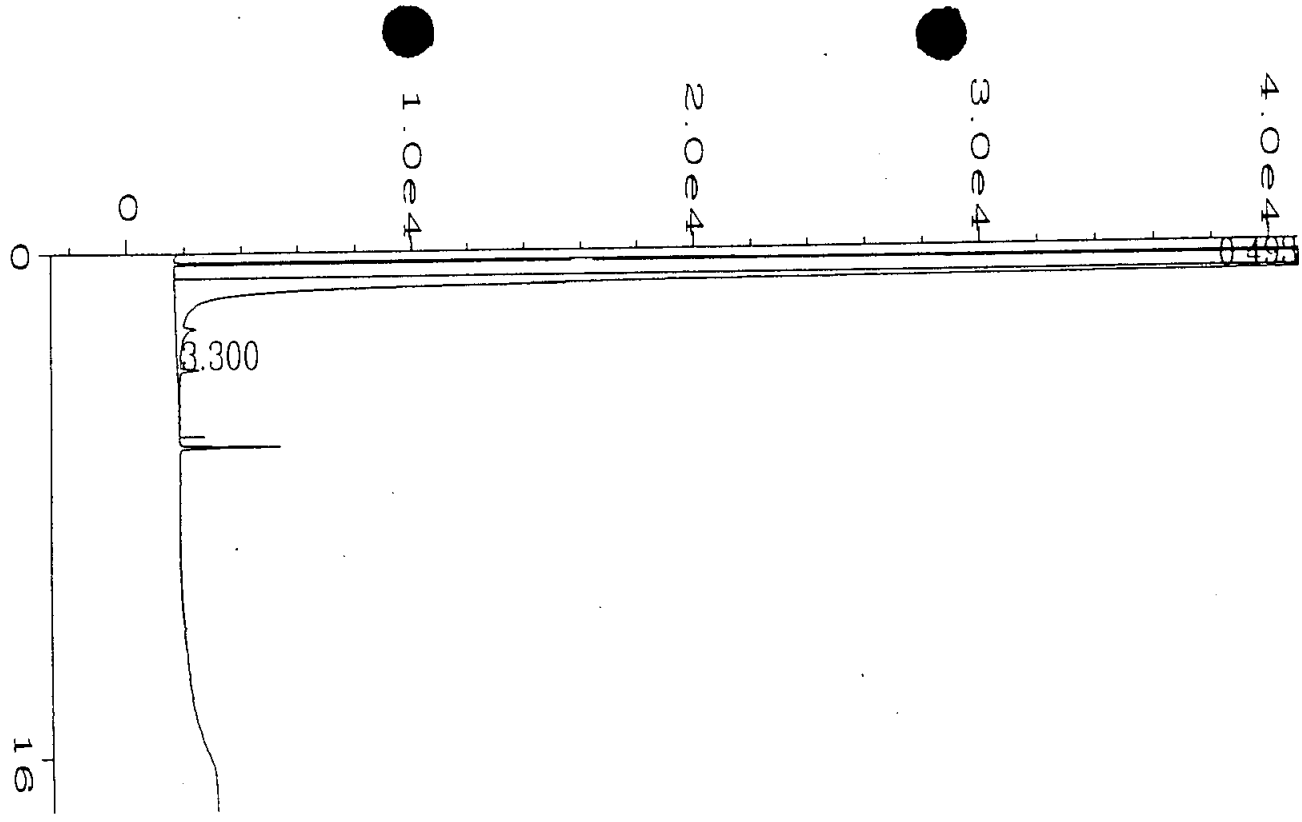
Sig. 2 in C:\HPCHEM\1\DATA\042998\031R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
5.063	* not found *			1		gasoline
5.065	78091	MM	0.285	1	11.214	diesel range

Not all calibrated peaks were found

User Modified

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External Standard Report

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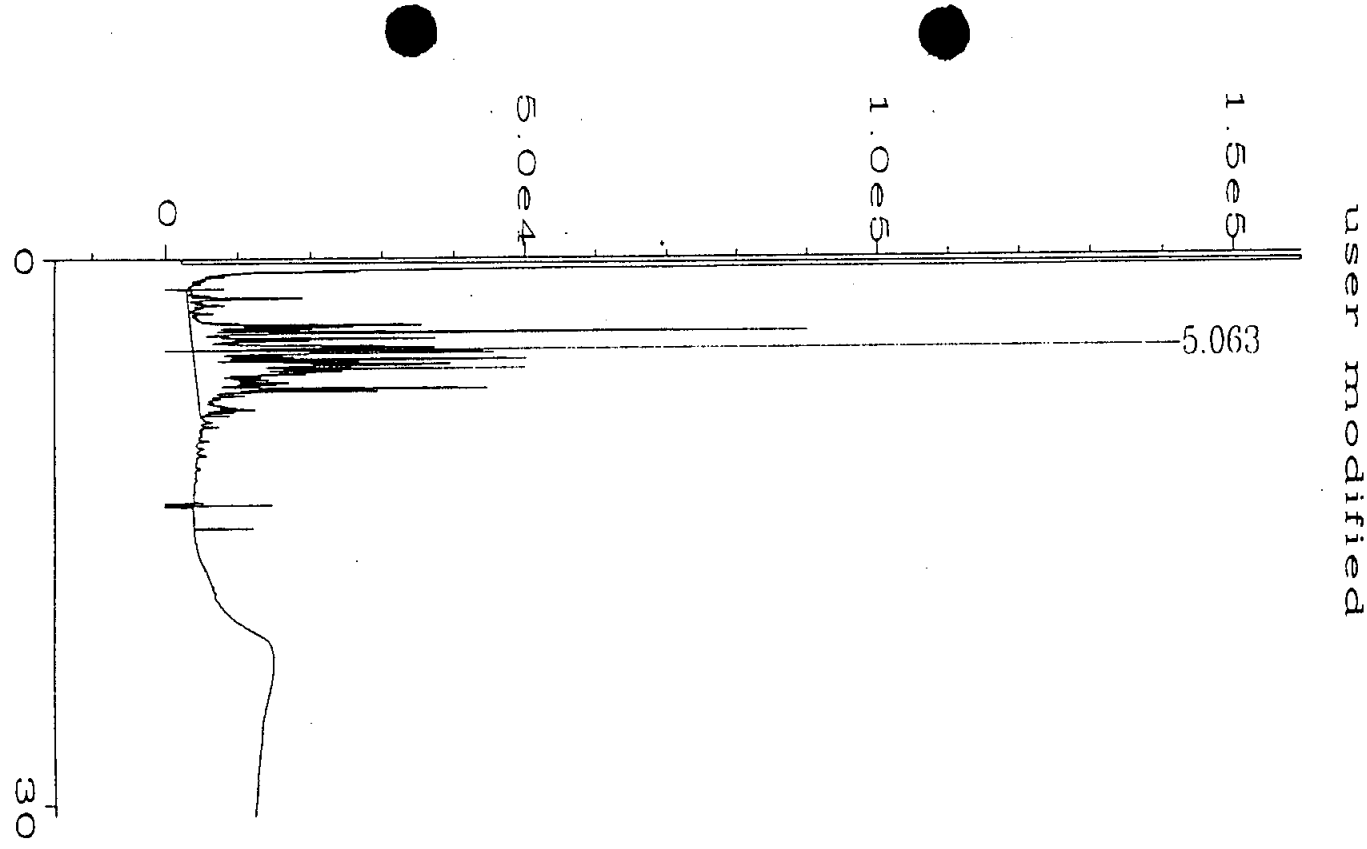
Data File Name	: C:\HPCHEM\1\DATA\042998\007F0101.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 7
Sample Name	: T2-2@16'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 02:18 PM	Instrument Method	: TPHF0506.MTH
Report Created on	: 29 Apr 98 02:38 PM	Analysis Method	: TPHF0506.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\042998\007F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
4.150	* not found *			1		gasoline
12.252	* not found *			1		diesel

Not all calibrated peaks were found

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External Standard Report

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Data File Name : C:\HPCHEM\1\DATA\042998\029R0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T4@10'
Run Time Bar Code:
Acquired on : 29 Apr 98 12:51 PM
Report Created on: 29 Apr 98 01:36 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

Page Number : 1
Vial Number : 29
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHEXT.MTH
Analysis Method : TPHR0403.MTH
Sample Amount : 0
ISTD Amount :

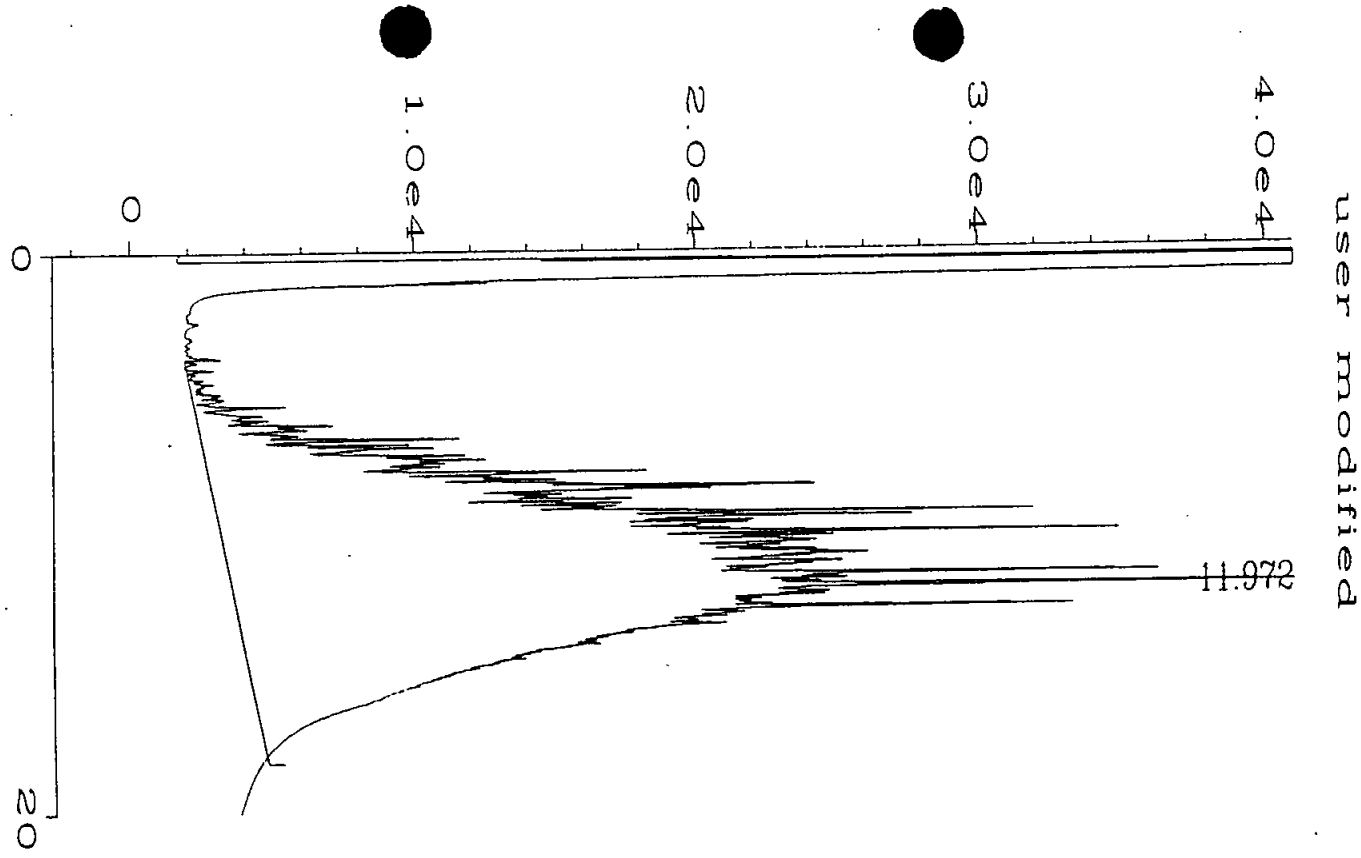
Sig. 2 in C:\HPCHEM\1\DATA\042998\029R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
5.063	3600913	MM	0.432	1	820.463	gasoline rang-c
10.767	* not found *			1		diesel

Not all calibrated peaks were found

User Modified

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External Standard Report

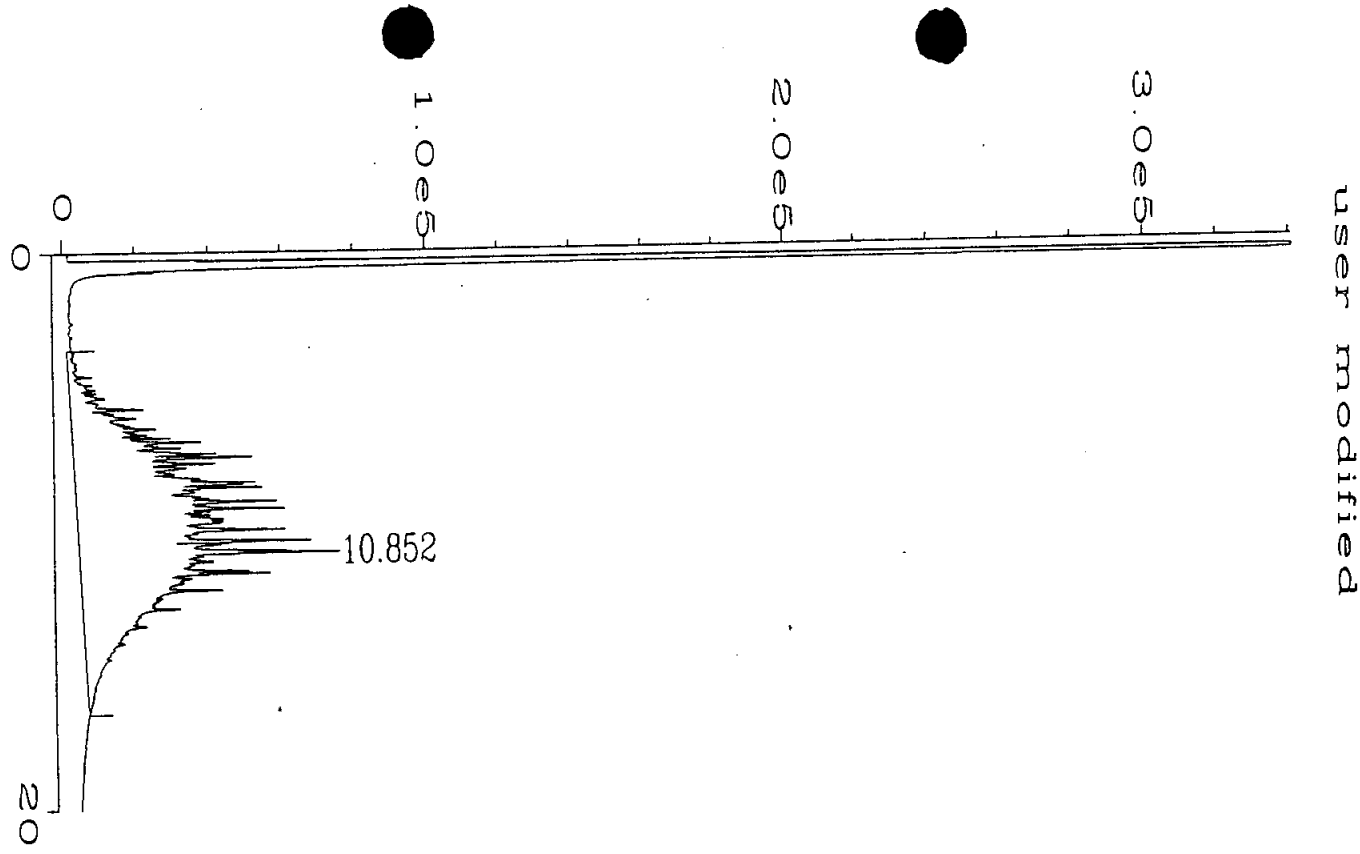
Data File Name	: C:\HPCHEM\1\DATA\042998\011F0101.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 11
Sample Name	: T6-E-16'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 03:54 PM	Instrument Method	: TPHF0506.MTH
Report Created on	: 29 Apr 98 04:20 PM	Analysis Method	: TPHF0403.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\042998\011F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
3.546	* not found *			1		gasoline
11.972	8055719	MM	3.190	1	1086.758	diesel

Not all calibrated peaks were found

User Modified



External Standard Report

Data File Name : C:\HPCHEM\1\DATA\042998\035R0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T6-W-16.5'
Run Time Bar Code:
Acquired on : 29 Apr 98 03:28 PM
Report Created on: 29 Apr 98 03:59 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

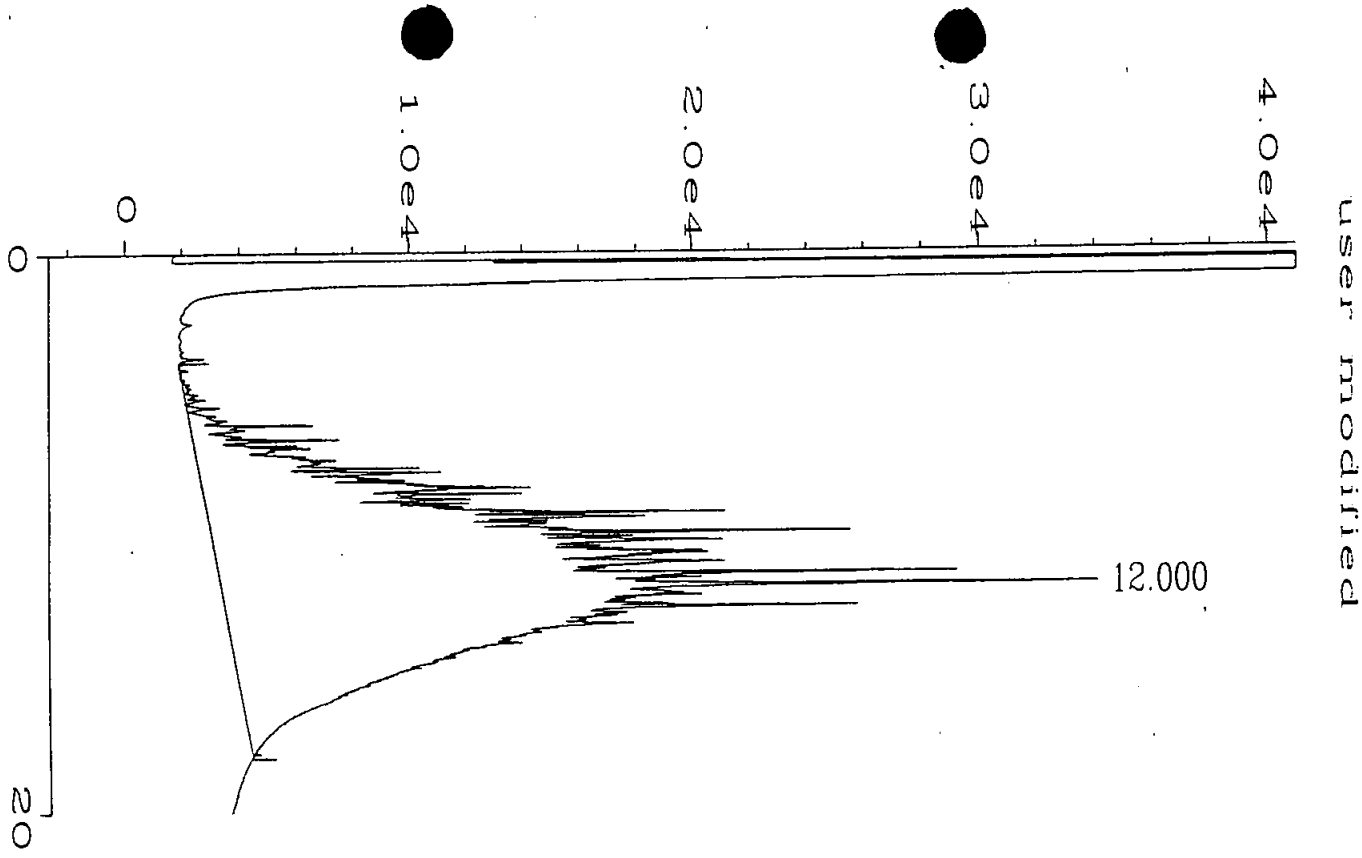
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Vial Number : 35
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHF0506.MTH
Analysis Method : TPHR0403.MTH
Sample Amount : 0
ISTD Amount :

Sig. 2 in C:\HPCHEM\1\DATA\042998\035R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
4.094	* not found *			1		gasoline
10.852	1.45827E+007	MM	3.377	1	1818.737	diesel

Not all calibrated peaks were found

User Modified



External Standard Report

Data File Name : C:\HPCHEM\1\DATA\042998\010F0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T7-E-16'
Run Time Bar Code:
Acquired on : 29 Apr 98 03:28 PM
Report Created on: 29 Apr 98 04:00 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

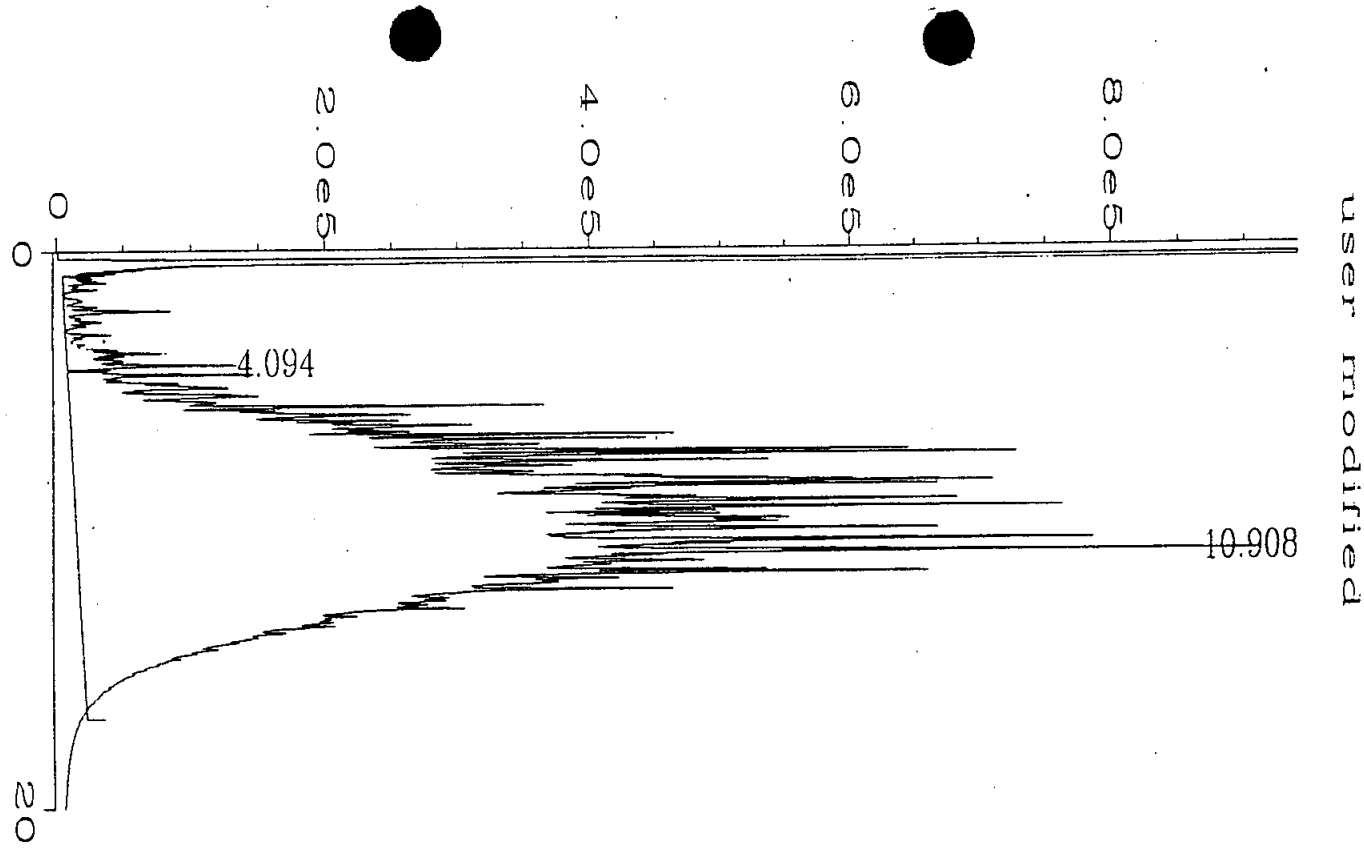
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Vial Number : 10
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHF0506.MTH
Analysis Method : TPHF0403.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\042998\010F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
3.546	* not found *			1		gasoline
12.000	5749034	MM	3.070	1	798.819	diesel

Not all calibrated peaks were found

User Modified



External Standard Report

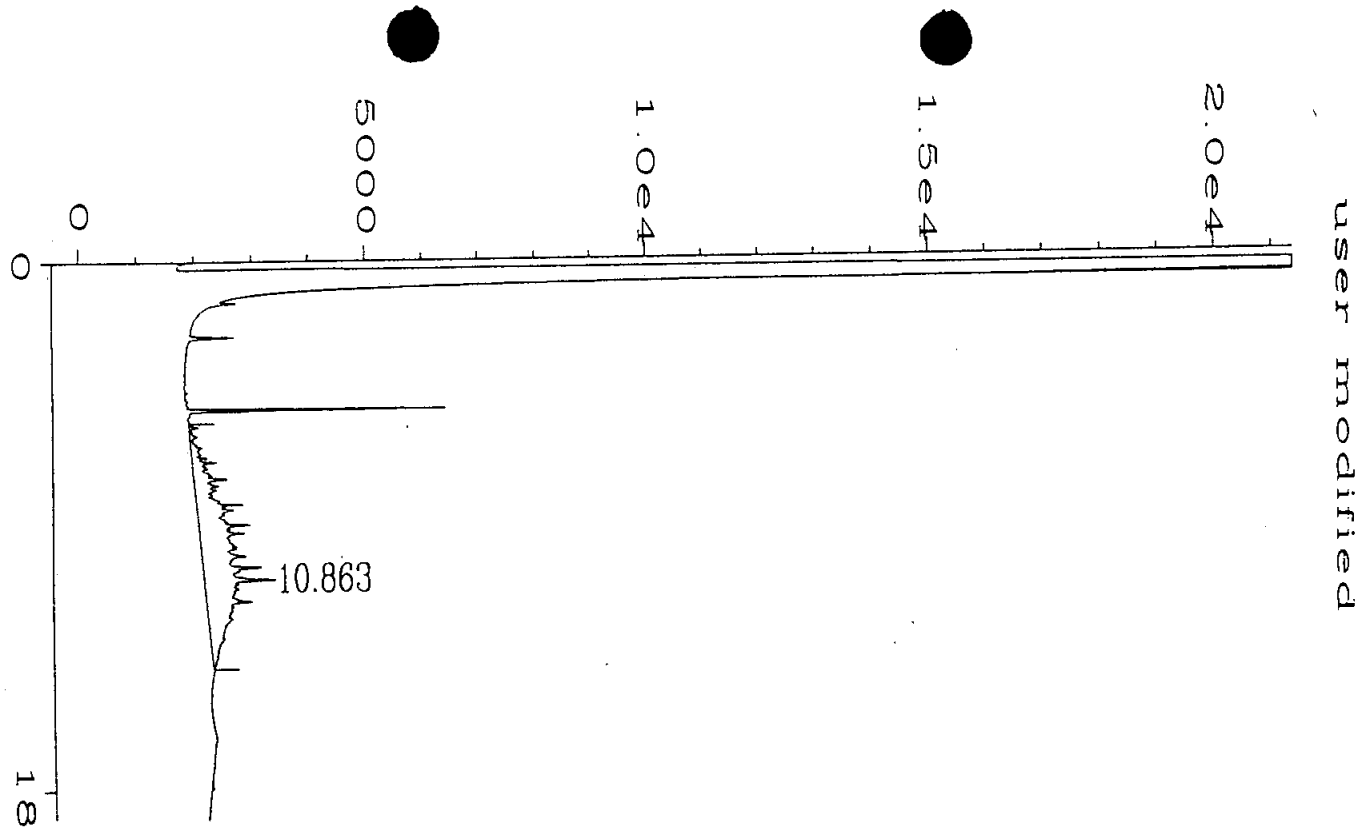
Data File Name : C:\HPCHEM\1\DATA\042998\034R0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T7-W-16'
Run Time Bar Code:
Acquired on : 29 Apr 98 03:03 PM
Report Created on: 29 Apr 98 03:35 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

Page Number : 1
Vial Number : 34
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHF0506.MTH
Analysis Method : TPHR0403.MTH
Sample Amount : 0
ISTD Amount :

Sig. 2 in C:\HPCHEM\1\DATA\042998\034R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
4.094	3673335	MM	0.488	1 rd	~~837.100~~	~~gasoline~~
10.908	1.83927E+008	MM	3.412	1	22916.18	diesel

User Modified



External Standard Report

Data File Name : C:\HPCHEM\1\DATA\042998\033R0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T8-E-16'
Run Time Bar Code:
Acquired on : 29 Apr 98 02:39 PM
Report Created on: 29 Apr 98 03:04 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

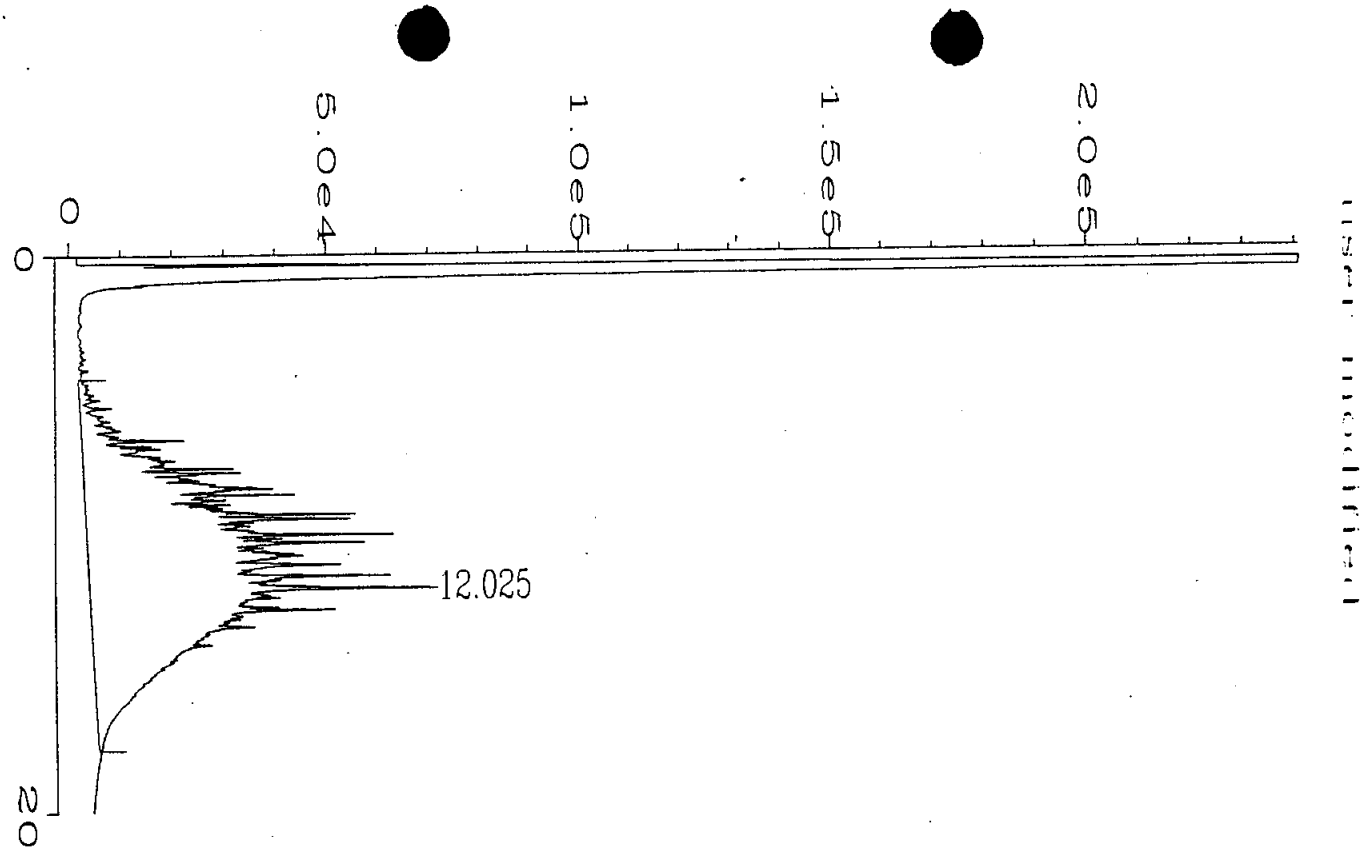
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Vial Number : 33
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHF0506.MTH
Analysis Method : TPHR0403.MTH
Sample Amount : 0
ISTD Amount :

Sig. 2 in C:\HPCHEM\1\DATA\042998\033R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
5.063	* not found *			1		gasoline
10.863	176617	MM	2.333	1	25.362	diesel

Not all calibrated peaks were found

User Modified



External Standard Report

Data File Name : C:\HPCHEM\1\DATA\042998\009F0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T8-W-16'
Run Time Bar Code:
Acquired on : 29 Apr 98 03:03 PM
Report Created on: 29 Apr 98 03:34 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

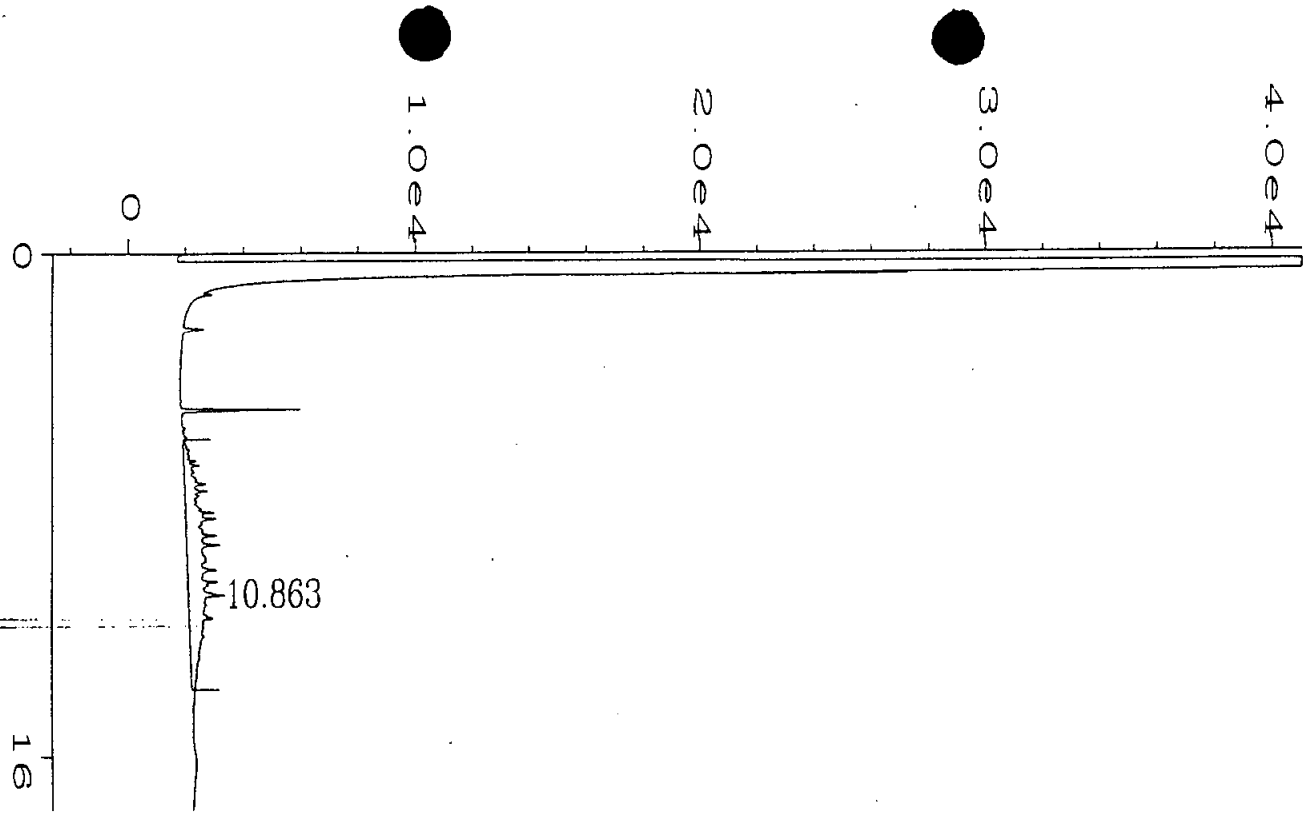
Page Number : 1
Vial Number : 9
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHF0506.[illegible]
Analysis Method : TPHF0403.[illegible]
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\042998\009F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
3.546	* not found *			1		gasoline
12.025	1.42497E+007	MM	3.490	1	1859.936	diesel

Not all calibrated peaks were found

User Modified



External Standard Report

Data File Name : C:\HPCHEM\1\DATA\042998\032R0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T9-E-15.5'
Run Time Bar Code:
Acquired on : 29 Apr 98 02:18 PM
Report Created on: 29 Apr 98 02:40 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

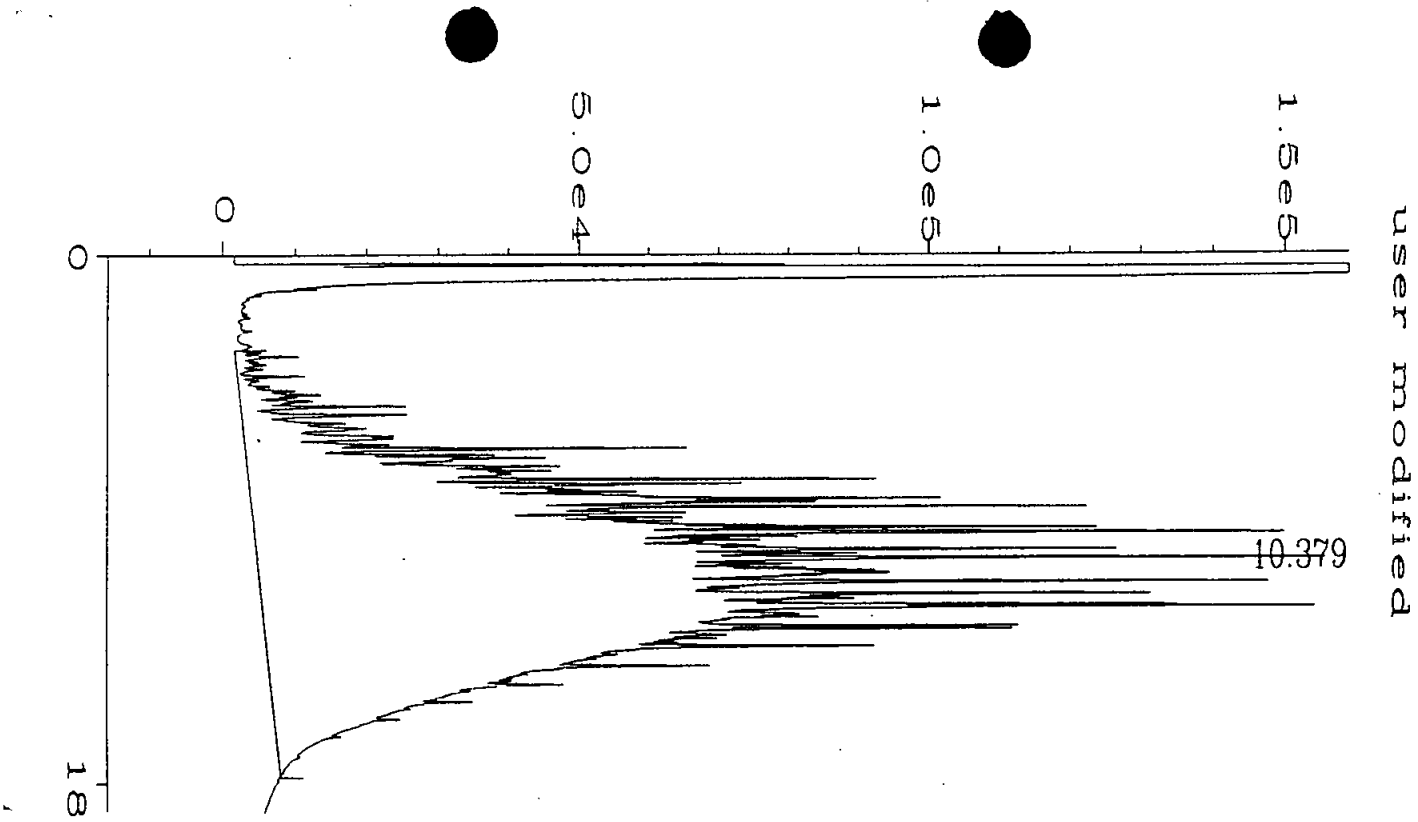
Page Number : 1
Vial Number : 32
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHF0506.MTH
Analysis Method : TPHR0403.MTH
Sample Amount : 0
ISTD Amount :

Sig. 2 in C:\HPCHEM\1\DATA\042998\032R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
5.063	* not found *			1		gasoline
10.863	206220	MM	2.805	1	29.613	diesel

Not all calibrated peaks were found

User Modified



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External Standard Report

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Data File Name	: C:\HPCHEM\1\DATA\042998\008F0101.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 8
Sample Name	: T9-W-17'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 02:39 PM	Instrument Method	: TPHF0506.MTH
Report Created on	: 29 Apr 98 03:04 PM	Analysis Method	: TPHF0403.MTE
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

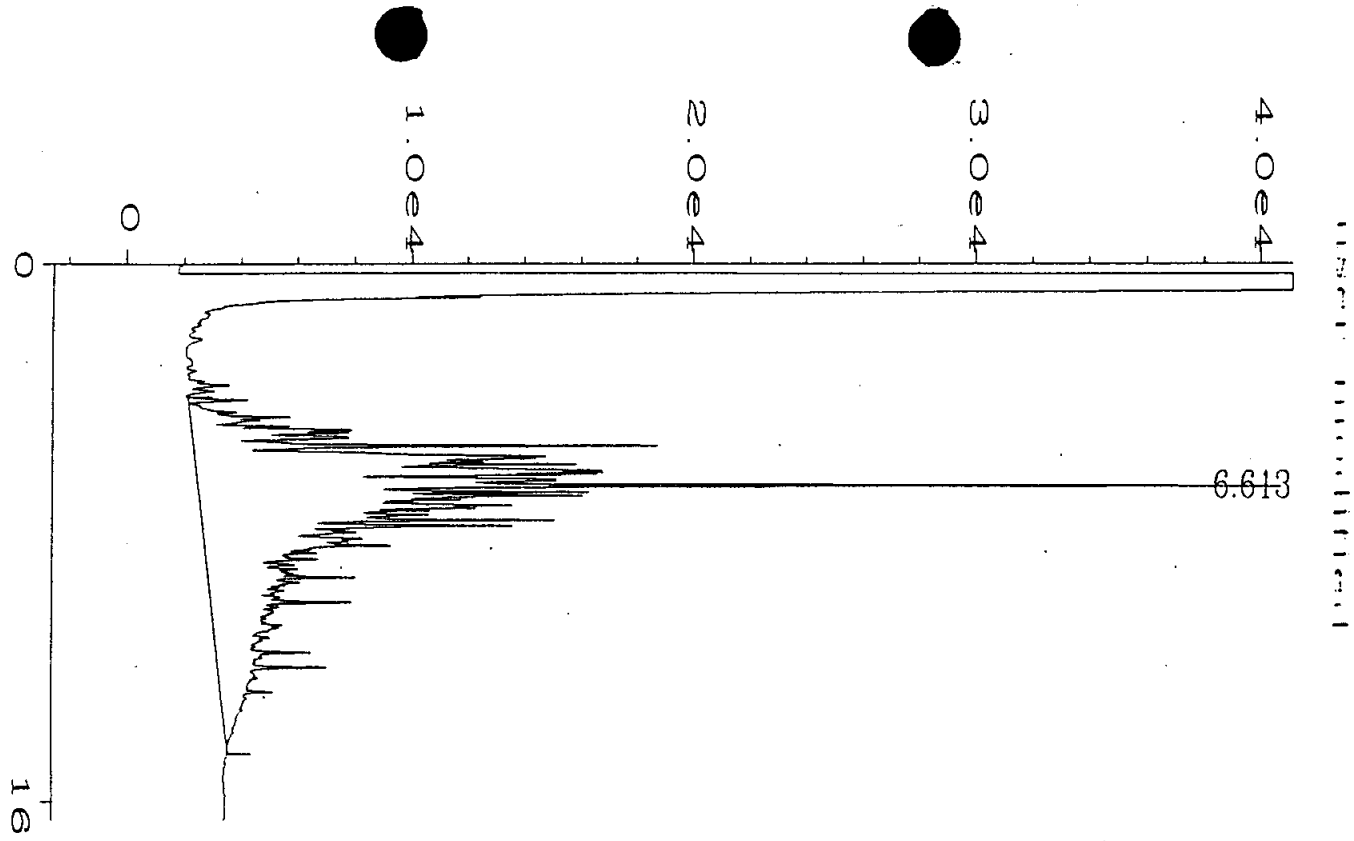
Sig. 1 in C:\HPCHEM\1\DATA\042998\008F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
3.546	* not found *			1		gasoline
10.379	3.2408E+007	MM	3.575	1	4166.250	diesel

Not all calibrated peaks were found

User Modified

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External Standard Report

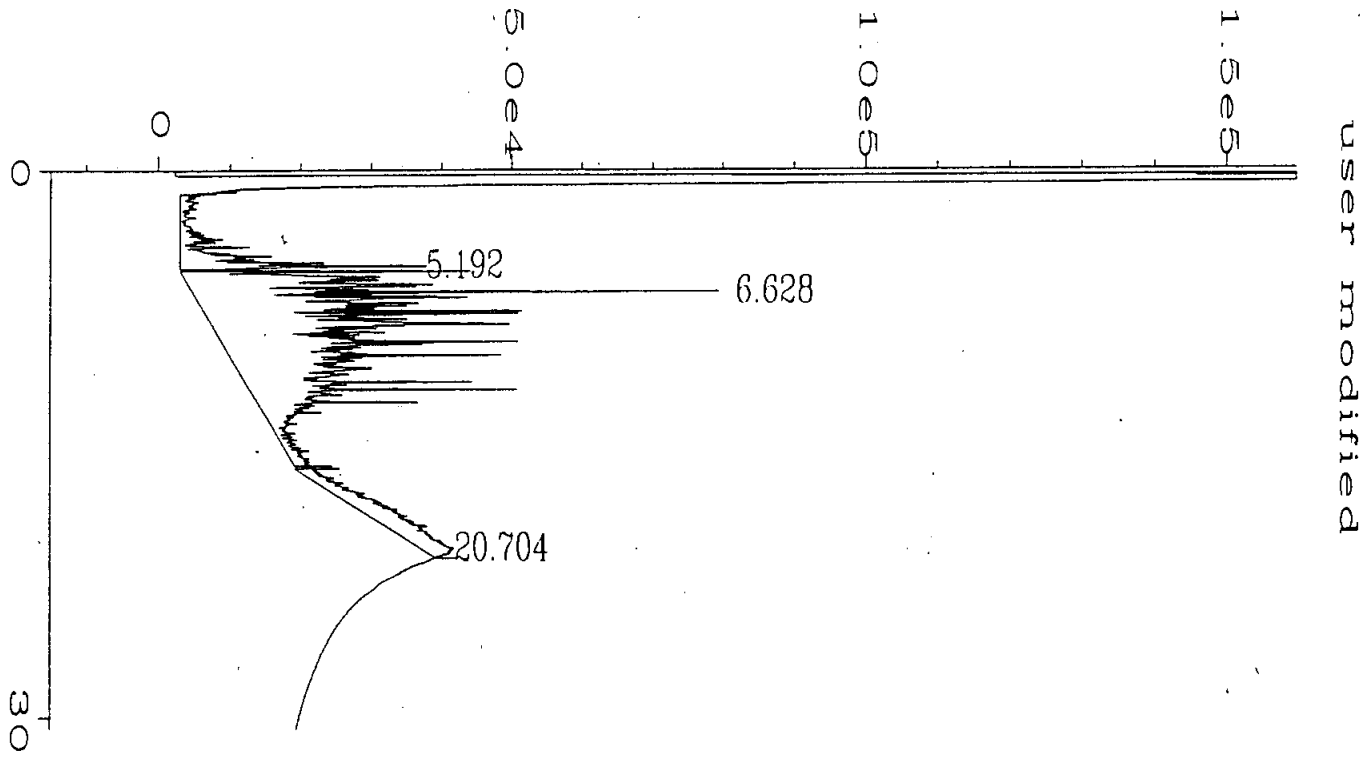
Data File Name	: C:\HPCHEM\1\DATA\042998\005F0201.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 5
Sample Name	: P1@4.0'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 2
Acquired on	: 29 Apr 98 01:29 PM	Instrument Method	: TPHF0506.[illegible]
Report Created on	: 29 Apr 98 01:54 PM	Analysis Method	: TPHF0403.[illegible]
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\042998\005F0201.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
4.150	* not found *			1		gasoline
6.613	2332299	MM	1.014	1	372.316	diesel range

Not all calibrated peaks were found

User Modified



External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\042998\004F0101.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 4
Sample Name	: T3@9.5'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 12:51 PM	Instrument Method	: TPHEXT.MTH
Report Created on	: 30 Apr 98 12:54 PM	Analysis Method	: TPHF0403.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\042998\004F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
5.192	942932	MM	0.451	1	219.795	gasoline range
6.628	8590035	MM	1.858	1	1153.455	diesel range
20.704	1024289	mm	3.572	1	190	C_{25}-C_{44}

User Modified

SITE ASSESSMENT AND MITIGATION DIVISION

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT

ESTABLISHMENT NO. H19469 PLAN CHECK NO. NT1976

SITE NAME El Capitan #1 PHONE

SITE ADDRESS 11477 Woodside Ave. CITY Santee ZIP 92071

CONTRACTOR GTB PHONE 579-3604

Number of tanks to be removed: 1 2 3 4 5 6 7 8 ___

Decontamination by NA

Manifest No.

Tank rinsate/(amount & destination)

FIRE AGENCY PRESENT YES (NO)

Dept.

Permit No.

Inspector

Tank ID No.					REMARKS
Capacity					
Tank Construction					
Materials stored	Gasoline	Diesel			Piping Removal Only
% L.E.L.	NA				
Dry ice/other (amt.)	NA				
Tank condition	NA				
Backfill soil type	Sandy silt				
Backfill condition	OK				
Native soil type	Sand				
Native condition	OK				
Excavation odors?	Slight				
Stockpile odors?	Slight				
Water present?	NO				
Ponded product?	NO				
Piping removed?	Yes				

REINSPECTION REQUIRED YES (NO) If yes, explain

NOTICE: You are hereby notified that on 10/7/97, a Hazardous Materials Specialist conducted an inspection for the closure of piping hazardous substance underground storage tank(s). A summary of the conditions follows:

☐ An **unauthorized release** of a hazardous substance has been observed by the Hazardous Materials Specialist. You are hereby required to initiate **Corrective Action** measures (see Page 4 for details).

☐ A determination of this site's status is pending the Site Assessment and Mitigation (SAM) Division's receipt and review of analytical results for the samples taken from the tank and/or piping closure site. A laboratory report must be submitted to SAM within 30 days. Please request that the laboratory send a copy of the analytical report directly to Mary Peters at the address provided below.

SAM Division has completed its review of the analytical results for samples collected at the tank closure site and has determined the following:

☐ TANK CLOSURE COMPLETE - NO FURTHER ACTION REQUIRED

CONTINUE UNDER OVER EXCAV

☒ INITIATE CORRECTIVE ACTION MEASURES (See enclosed information)

Approved by: MIKE VERNOT Date Reviewed: 11/3/97 Supervisor (initial): MDV

RECEIVED BY

PRINTED NAME MARK KUNZE

PHONE NUMBER (619) 579-3604

Mary Peters
Hazardous Materials Specialist
SAM - P.O. Box 85261
San Diego, CA 92186-5261 (619) 338-2222

DISTRIBUTION: WHITE-RETURN TO SAM
YELLOW-BUSINESS RETAINS

NT1976
11427 WOODSIDE AVE SANTEE 92071
EL CAPITAN OIL

H194

PROPOSED METHOD OF CLOSURE: ☒ REMOVAL ☐ CLOSURE IN PLACE

SAMPLING PROTOCOL

owner/authorized representative responsible for all sampling analyses and associated costs.

- for tank systems that are to be removed. Th

IMPORTANT: CONTACT THE DEPT. OF HEALTH SERVICES AT 338-2214 AT LEAST TWO WORKING DAYS BEFORE STARTING CONSTRUCTION TO SCHEDULE THE FIRST REQUIRED FIELD INSPECTION.

County of San Diego
- Department of Environmental Health -
Site Assessment & Mitigation Division

PLAN APPROVAL

PC# NT1976 H# 1940

Approved By: M Oakes Date: 7/30/97

Comments: Contact 1-4 comp UST system; remove 8 USTs + piping. Convert brick tank to AST

*Any change in these plans may void this approval. This stamp does not constitute or imply approval by other agencies.

10M ABOVE GROUND TANKS w/ CONTAINMENT PAD

DSL DSL

manifolded

Remove (4) 6M Tanks w/ Associated product piping

DSL #1 6M | DSL #2 6M | DSL #3 6M Active | DSL #4 6M Active

Stockpiled Soil

vents

PL

Above Ground Tanks w/ Containment Pad

RED DSL 6700 | DSL 3400 | DSL 6700

(3) Tanks To be removed w/ Associated product Lines

#5 2500 SUP

#7 550 Solvent

#8 550 WASTE oil (diesel fuel)

BLDG

vents

7500 #6 UNL

P-1 P-2 P-3 P-4 P-5 P-6 P-7 P-8 P-9 P-10

Fuel Islands & product Lines To be removed

SAM Chain-of-Custody Record

Date 10/7/97 Page 1 of 1

Project Name Excavation #1
Reference
Address 1027 Woodside Ave
Sampler's Signature
Lab To Be Used

COPY OF LAB RESULTS MUST BE SENT TO:
Dept. of Environmental Health
Site Assessment and Mitigation Division
P.O. Box 85261
San Diego, CA 92186-5261

SAMPLE NO.	DATE	TIME	LOCATION	ANALYSIS REQUESTED: TPH DOHS METHOD	TRPH EPA 418.1	BTXE (8020/602)	HALOGENATED (8010/601)			SAMPLE TYPE: SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
P-1	10/8/97	3:25 pm	5' North of Ridge at dispenser 23" BGS	X						X		X		1	
P-2	"	3:30 pm	20' N of P-1 31" BGS	X						X		X		1	
P-3	"	3:35 pm	21'9" W of P-2 20" BGS	X						X		X		1	
P-4	"	3:38 pm	24½' W of P-3 3' BGS	X						X		X		1	(Plus Gas + Diesel
P-5	"	3:41 pm	6' W of P-4 3' BGS	X						X		X		1	
P-6	"	3:45	4' W of P-5 3' BGS	X						X		X		1	
P-7	"	3:47	4' W of P-6 3' BGS	X						X		X		1	
P-8	"	3:53	11'6" W of P-7 3' BGS	X						X		X		1	
~~P-9~~ P-9	"	~~3:59~~ 3:57	~~5' N of P-8 3' BGS~~ 3' BGS 20' S of P-7	X						X		X		1	

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
Signature	Time	Signature	Time	Signature	Time
Printed Name		Printed Name		Printed Name	
Company		Company		Company	
RECEIVED BY	Date	RECEIVED BY	Date	RECEIVED BY (LAB)	Date
Signature	Time	Signature	Time	Signature	Time
Printed Name		Printed Name		Printed Name	
Company		Company		Company	

10 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice Yes/No
Tape Seal Intact Yes/No
Special Shipment/Handling Or Storage Requirements:

Split Sample Location

Site Identification
H# 19464 -AT# NT1976
SAM Peter

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - SAM

DEH:SAM-999 (8/95) NCR

County of San Diego
Department of Environmental Health

GTB COMPANY PROJECT #19469-NT1976
EL CAPITAN OIL
11427 WOODSIDE AVENUE
SAN DIEGO, CA

TEG Project #971007-10

TPH (DOHS EPA Method 8015 Modified) ANALYSES OF SOILS

SAMPLE NUMBER	DATE ANALYZED	TPH-GAS C5-C11 (mg/kg)	TPH-DIESEL C12-C24 (mg/kg)
METHOD BLANK	10/10/97	ND	ND
P-1	10/10/97	18	5,537
P-1 DUP	10/10/97	43	9,799
P-2	10/10/97	175	21,218
P-3	10/10/97	ND	ND
P-4	10/10/97	30	9,584
P-5	10/10/97	65	3,025
P-6	10/10/97	136	6,624
P-7	10/10/97	467	13,372
P-8	10/10/97	2,279	10,632
P-9	10/10/97	3,043	5,759
P-10	10/10/97	224	115,444
DETECTION LIMITS		10	10

ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1839)
ANALYSES PERFORMED BY: MS. SHERI HARTMAN
DATA REVIEWED BY: Sheryn Hartman
10-20-97

teg

QA/QC REPORT - CALIBRATION DATA

TEG Project #971007-10
DAILY CALIBRATION DATE : 10/10/97

	CALIBRATION RANGE		INITIAL	INITIAL		OPENING			CLOSING / LCS		
COMPOUND	SOIL (ppm)	WATER (ppb)	CALIB DATE	RF	%RSD	AREA	RF	%DIFF	AREA	RF	%DIFF
TPH GASOLINE - FID1	20-2000	600-60000	9/7/97	1.085	15.4%	194	1.031	5.0%	200	1.000	7.8%
TPH DIESEL - FID1	50 - 5000	1500-150000	9/10/97	2.962	3.6%	189	2.640	10.9%	194	2.577	13.0%

INITIAL RF - AVERAGE RESPONSE FACTOR FROM MULTIPOINT CALIBRATION CURVE
% RSD - LINEARITY OF MULTIPOINT CALIBRATION CURVE (+/- 20% ACCEPTABLE LIMITS)
AREA - AREA COUNTS FROM DAILY CALIBRATION STANDARD
RF - DETECTOR RESPONSE FACTOR FROM MID-POINT CALIBRATION STANDARD
% DIFF - DIFFERENCE, IN PERCENT, BETWEEN THE AVERAGE RF AND THE OPENING OR CLOSING RF
OPENING - MID-POINT CALIBRATION STANDARD ANALYZED BEFORE SAMPLE ANALYSES BEGIN
CLOSING - MID-POINT CALIBRATION STANDARD ANALYZED AFTER SAMPLES ANALYSES ARE COMPLETE

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1839)
ANALYSES PERFORMED BY: MS. SHERI HARTMAN
DATA REVIEWED BY: Sheri Hartman
10-20-97

teg

QA/QC REPORT - MS/MSD DATA

MATRIX SPIKE (MS)/MATRIX SPIKE DUPLICATE (MSD) FOR SOILS

ANALYSIS DATE : 10/10/97
TEG Project #971007-10

COMPOUND	SPK CONC (mg/kg)	MS CONC (mg/kg)	%REC MS	MSD CONC (mg/kg)	%REC MSD	RPD	ACCEPTABLE RPD	ACCEPTABLE RECOVERY
TPH GASOLINE	200	212	106.0%	210	105.0%	0.9%	15%	82% - 122%
TPH DIESEL	500	535	107.0%	536	107.2%	0.2%	15%	72% - 112%

SPK CONC - CONCENTRATION SPIKED INTO MATRIX
MS CONC - ANALYZED CONCENTRATION OF SPIKED SAMPLE
% REC - PERCENT RECOVERY OF SPIKE FROM MATRIX
RPD - RELATIVE PERCENT DIFFERENCE BETWEEN MATRIX SPIKE AND MATRIX SPIKE DUPLICATE RECOVERIES

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1839)
ANALYSES PERFORMED BY: MS. SHERI HARTMAN
DATA REVIEWED BY: Sheri Hartman
10-20-97

SAM Chain-of-Custody Record

Date 10/7/97 Page 1 of 1

Project Name El Capitan Oil
Reference
Address 11427 Woodside Ave
Sampler's Signature
Lab To Be Used RCC Project # 971007-10

COPY OF LAB RESULTS MUST BE SENT TO:
Dept. of Environmental Health
Site Assessment and Mitigation Division
P.O. Box 85261
San Diego, CA 92186-5261

SAMPLE NO.	DATE	TIME	LOCATION	TPH 5-d DOHS METHOD	TRPH EPA 418.1	BTXE (8020/602)	HALOGENATED (8010/601)			SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
P-1	10/7/97	3:25 pm	5' North of Bldg at dispenser 3' BGS	X						X		X		1	
P-2	"	3:30 pm	20' N of P-1 3' BGS	X						X		X		1	
P-3	"	3:35 pm	21'3" W of P-2 3' BGS	X						X		X		1	
P-4	"	3:38 pm	24½' W of P-3 3' BGS	X						X		X		1	Run Gas + Diesel
P-5	"	3:41 pm	3' W of P-4 3' BGS	X						X		X		1	
P-6	"	3:45	4' W of P-5 3' BGS	X						X		X		1	
P-7	"	3:47	4' W of P-6 3' BGS	X						X		X		1	
P-8	"	3:53	11'6" W of P-7 3' BGS	X						X		X		1	
~~P-9~~	"	3:53	5'5" W of P-8 3' BGS	X						X		X		1	
P-10	"	3:57	3' BGS 20' S of P-9	X						X		X		1	

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
Signature	10/7/97	Signature	10-7-97	Signature	
Printed Name MARK KINZE	Time 4:26	Printed Name Bill Perks	Time 5:15	Printed Name	Time
Company GTB Company		Company GTB Company		Company	
RECEIVED BY	Date	RECEIVED BY	Date	RECEIVED BY (LAB)	Date
Signature Bill Perks	Time 4:26	Signature MARY ANN THORPE	Time 5:15	Signature	Time
Printed Name GTB Company		Printed Name TEG		Printed Name	
Company		Company		Company	

10 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice (Yes)/No
Tape Seal Intact (Yes)/No
Special Shipment/Handling Or Storage Requirements:

Split Sample Location

Site Identification
H# 19469 AT# NT1976
SAM Peters

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - SAM

DEH:SAM-999 (8/95) NCR

County of San Diego
Department of Environmental Health

H19469

SITE ASSESSMENT/MITIGATION REFERRAL

Date 6-15-90

To: Site Assessment/Mitigation Supervisor

From: Rebecca Lafreniere

The following site is being referred to Site Assessment/Mitigation for action. This site will require a site assessment and/or mitigative action to be completed.

Establishment/Site Name BUY WRIGHT OIL COMPANY Estab. No. H 19469

Address 11427 WOODSIDE AVE, SANTEE

Responsible Party WILLIAM/BARBARA WRIGHT

Case Type: Unauthorized Release ____ Abandoned Site ____
Improper Disposal ____ Spill SEVERE STAINS
HIRT ____ Other ____

Conditions indicating that a site assessment and/or mitigative action is needed. FACILITY IS 20+ YEARS OLD. IT APPEARS THAT THERE HAS BEEN OVERFILLS AND THERE IS NO PROTECTION OF THE SOIL WITHIN THE ABOVE GROUND TANK AREAS (2).

All documentation for this site is maintained in the appropriate establishment file.

Location of additional information (HIRT, complaint file, etc.) ____
SEE COMPLIANCE INSPECTION PERFORMED @ 6-13-90

Staff Supervisor's Signature Christina Graulau

* NOTE: DAVE FELIX IS FOLLOWING A SA/M FOR LUST. CG

No action - per
C.B. + D.F. 6/22/90
Case is in site assessment

COUNTY OF SAN DIEGO

EST. NUMBER H 19469

DATE 6/13/90

BUS CODE K07

SPECIALIST R. LAFRENIERE
C. GRADLAU

CC: DAVE FELIX - HMMD SA/M

COMPLIANCE INSPECTION REPORT

BUSINESS NAME BUY WRIGHT OIL COMPANY

ADDRESS 11427 WOODSIDE AVE

CITY/ZIP SANTEE 92071

CONTACT YORK HEMDINGC

TITLE AREA MGR

PHONE 448-5891

On the above date an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6.5, 6.7, 6.95; Title 19, 22, and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). Violations determined from this inspection are noted below. The following statements are intended to provide guidance to correct the violations noted.

Office Use Only	

(13) CONTAINMENT AREAS FOR BOTH ABOVE GROUND STORAGE (BULK) TANKS ARE SUSPECTED OF BEING CONTAMINATED. UNABLE TO DETERMINE IF SOIL/GROUND IS PROTECTED WITH AN IMPERVIOUS PAD. CONTACT SA/M (DAVE FELIX) @ 338-2222 FOR SAMPLING/ANALYSIS AND OTHER DETERMINATIONS OF EXTENT OF CONTAMINATION.

DAVE,

SDCC	
V0101	W
V0102	W
V0105	W
V0201	W
V0202	W
V0203	W
V0309	W
V2002	W
V2101	W
V2202	W
V2301	W
V3001	T
V3201	T

[ ] A Permit has not been obtained for: [ ] Hazardous Waste [ ] Underground Tanks [ ] Materials Inventory
[ ] Hazardous waste manifests are not maintained on site as evidence of proper disposal - (CCR) Sec 66492 (A)
[ ] Hazardous waste hauler receipts have not been made available for review - - - - - (CCR) Sec 66328 (A) (7)
[ ] An EPA number has not been obtained for your business - - - - - - - - - - - - - - - - - - - (CCR) Sec 66472 (A)
[ ] Hazardous waste is stored at your business facility longer than 90 days - - - - - - - - (CCR) Sec 66508 (A)
[ ] Hazardous waste containers are not kept closed while in storage - - - - - - - - - - - (CCR) Sec 67243 (A)
[ ] Hazardous waste containers are missing labels and/or improperly labeled - - - - - -(CCR) Sec 66508 (A)(3)
[ ] Hazardous waste has been disposed of at a place not authorized by law - - - - - - - - - (H&S) Sec 25189.5
[ ] A business plan has not been completed and maintained on site as required - - - - - - - (H&S) Sec 25503.5
[ ] An inventory of disclosable hazardous materials has not been provided - - - - - - - - (H&S) Sec 25504 (A)
[ ] A facility site map of your business has not been provided as required - - - - - -(H&S) Sec 25509 (A)(5)
[ ] An outline of your employee training program has not been provided - - - - - - - - - (H&S) Sec 25504 (C)
[ ] Underground tank inventory records have not been maintained daily and reconciled - - - (CCR) Sec 2712 (C)
[ ] Evidence of tank precision testing has not been provided annually as required - - - - - -(CCR) Sec 2643

Signature of Business Representative

REGIONAL SUPERVISOR
Title

Department of Health Services; Hazardous Materials Management Division, PO Box 85261 San Diego CA, 92138-5261

(619) 338-2222

COUNTY OF SAN DIEGO

EST. NUMBER H 19469
DATE 6/13/90
BUS CODE 1207
SPECIALIST R. LAFRENIERE
C. GRAHAM
CONTACT [redacted] YORK
HIEMDINGER
TITLE AREA [redacted] MANAGER
PHONE 448-5891

COMPLIANCE INSPECTION REPORT

BUSINESS NAME BUY WRIGHT OIL COMPANY
ADDRESS 11427 WOODSIDE AVE
CITY/ZIP SANTEE 92071

On the above date an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6.5, 6.7, 6.95; Title 19, 22, and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). Violations determined from this inspection are noted below. The following statements are intended to provide guidance to correct the violations noted.

Office Use Only	
R103	WJ
R	T
V3101	T

REMARKS:

1. SUBMIT UPDATED BUSINESS PLAN WITHIN 30 DAYS. PLAN ONSITE IS OUTDATED
2. KEEP WEEKLY GUAGING RECORDS FOR UNDERGROUND WASTE OIL TANKS
3. KEEP DAILY INVENTORY RECONCILIATION RECORDS FOR ALL TANKS (I.E, DIESEL TANKS ARE CURRENTLY BEING RECONCILED AS ONE UNIT)
4. DAILY INVENTORY RECONCILIATION RECORDS SHOW LARGE FLUCTUATIONS IN INVENTORY (GREATER THAN 100 gallons UPTO 2000 gallons). KEEP LOG OF EXPLANATIONS FOR DISCREPENCIES OF SUCH VOLUME.
5. TANK UNDERGROUND STORAGE TANK (UST) PRECISION / INTEGRITY TESTING IS DUE ANNUALLY. INSPECTION REPORT HAS NO INDICATION THAT UST-WASTE O TANK HAS EVER BEEN TESTED. NOTE: ALL UST SCHEDULED TO BE TESTED 6/90. THREE TANKS TESTED 6/15/90. SUBMIT COPIES OF ALL UST TEST RESULTS TO HMMD
6. STRONGLY SUSPECT WASTE OIL TANK IN SOUTHYARD STORAGE PAD MAY BE SUBJECT TO UST REGULATION. SUBMIT WRITTEN STATEMENT IN 10 DAYS ON STATUS AND DESCRIPTION OF THIS TANK, INCLUDE HOW THIS TANK IS TO BE MONITORED. CURRENTLY, IT IS NOT BEING MONITORED
7. MSA LEAK DETECTION SYSTEM FOR TANK 4 APPEARS TO BE NON-FUNCTIONAL SUBMIT A WRITTEN STATEMENT ABOUT CONDITION OF SYSTEM. IF UNIT IS NONFUNCTIONAL, PROVIDE DATE THAT UNIT WILL BE FUNCTIONAL. NOTE

ITEMS IN NON-COMPLIANCE: POWER LIGHT IS OUT / TEST BUTTON DID NOT EMIT SOUND/LIGHT

SDCC		[ ] A Permit has not been obtained for: [ ] Hazardous Waste [ ] Underground Tanks [ ] Materials Inventory
V0101	W	[1] Hazardous waste manifests are not maintained on site as evidence of proper disposal - (CCR) Sec 66492 (A)
V0102	W	[ ] Hazardous waste hauler receipts have not been made available for review - - - - - (CCR) Sec 66328 (A) (7)
V0105	W	[ ] An EPA number has not been obtained for your business - - - - - - - - - - - - - - - - (CCR) Sec 66472 (A)
V0201	W	[ ] Hazardous waste is stored at your business facility longer than 90 days - - - - - - - - (CCR) Sec 66508 (A)
V0202	W	[X] Hazardous waste containers are not kept closed while in storage - - - - - - - - - - - (CCR) Sec 67243 (A)
V0203	W	[X] Hazardous waste containers are missing labels and/or improperly labeled - - - - - -(CCR) Sec 66508 (A)(3)
V0509	W	[ ] Hazardous waste has been disposed of at a place not authorized by law - - - - - - - - - (H&S) Sec 25189.5
V2002	W	[ ] A business plan has not been completed and maintained on site as required - - - - - - - (H&S) Sec 25503.5
V2101	W	[ ] An inventory of disclosable hazardous materials has not been provided - - - - - - - - (H&S) Sec 25504 (A)
V2202	W	[ ] A facility site map of your business has not been provided as required - - - - - -(H&S) Sec 25509 (A)(5)
V2301	W	[ ] An outline of your employee training program has not been provided - - - - - - - - - (H&S) Sec 25504 (C)
V3001	T	[X] Underground tank inventory records have not been maintained daily and reconciled - - - (CCR) Sec 2712 (C)
V3201	T	[X] Evidence of tank precision testing has not been provided annually as required - - - - - -(CCR) Sec 2643

Signature of Business Representative

REGIONAL SUPERVISOR
Title

COUNTY OF SAN DIEGO

EST. NUMBER H 19469

DATE 6/13/90

BUS CODE K07

SPECIALIST R Lafrenier
C. Graulau

COMPLIANCE INSPECTION REPORT

BUSINESS NAME BUY WRIGHT OIL COMPANY

ADDRESS 11427 WOODSIDE AVE

CITY/ZIP SANTEE 92071

CONTACT YORK HIEMDINGER

TITLE AREA MGR

PHONE 448-5891

On the above date an inspection of your business/facility was conducted in order to determine compliance with the California Health and Safety Code (H&S) Chapters 6.5, 6.7, 6.95; Title 19, 22, and 23 of the California Code of Regulations (CCR); and the San Diego County Code (SDCC). Violations determined from this inspection are noted below. The following statements are intended to provide guidance to correct the violations noted.

Office Use Only	
R	T
[R	W]
R207	W
[illegible]	
W205	W
R208	W

(8) BE ADVISED THAT FEDERAL AND STATE REQUIREMENT REGARDING FINANCIAL RESPONSIBILITY STATES THAT PROOF OF FINANCIAL RESPONSIBIL... MUST BE KEPT ON SITE AND AVAILABLE.

(9) HMMD HEALTH PERMIT POSTED HAS EXPIRED (4-30-90) [POST CURRENT HEALTH PERMIT]

(10) HAZARDOUS WASTE CONTAINERS MUST BE KEPT CLOSED AND LABELED AS HAZARDOUS WASTE (REFER TO GENERAL REQUIREMENT PACKET FOR LABELING REQUIREMENTS) EXCEPT WHILE ADDING OR REMOVING WASTES. LABEL WASTE OIL DRUM AND SPENT ABSORBANT DRUM AS HAZARDOUS WASTE AND SEAL SPENT ABSORBANT DRUM WITHIN 24HRS.

(11) STORE ALL HAZARDOUS WASTES AND HAZARDOUS MATERIALS IN STRUCTURALLY SOUND CONTAINERS. OBSERVED SEVERAL 55-GALLON DRUMS THAT ARE RUSTED AND DENTED.

(12) UNLABELED/MISLABELED/OR INADEQUATELY LABELED CONTAINERS BECOME HAZARDOUS WASTE IN 10 DAYS IF CONTENTS ARE NOT IDENTIFIED AND CONTAINERS LABELED. LABEL UPRIGHT DRUMS CONTAINING PRODUCT LOCATED AT EMPTY DRUM STORAGE AREA ON WEST SIDE OF LOT.

SDCC	
V0101	W
V0102	W
V0105	W
V0201	W
V0202	W
V0203	W
V0309	W
V2002	W
V2101	W
V2202	W
V2301	W
V3001	T
V3201	T

[ ] A Permit has not been obtained for: [ ] Hazardous Waste [ ] Underground Tanks [ ] Materials Inventory
[ ] Hazardous waste manifests are not maintained on site as evidence of proper disposal - (CCR) Sec 66492 (A)
[ ] Hazardous waste hauler receipts have not been made available for review - - - - - (CCR) Sec 66328 (A) (7)
[ ] An EPA number has not been obtained for your business - - - - - - - - - - - - - (CCR) Sec 66472 (A)
[ ] Hazardous waste is stored at your business facility longer than 90 days - - - - - - - - (CCR) Sec 66508 (A)
[ ] Hazardous waste containers are not kept closed while in storage - - - - - - - - - - - (CCR) Sec 67243 (A)
[ ] Hazardous waste containers are missing labels and/or improperly labeled - - - - - -(CCR) Sec 66508 (A)(3)
[ ] Hazardous waste has been disposed of at a place not authorized by law - - - - - - - - - (H&S) Sec 25189.5
[ ] A business plan has not been completed and maintained on site as required - - - - - - - (H&S) Sec 25503.5
[ ] An inventory of disclosable hazardous materials has not been provided - - - - - - - - (H&S) Sec 25504 (A)
[ ] A facility site map of your business has not been provided as required - - - - - -(H&S) Sec 25509 (A)(5)
[ ] An outline of your employee training program has not been provided - - - - - - - - - (H&S) Sec 25504 (C)
[ ] Underground tank inventory records have not been maintained daily and reconciled - - - (CCR) Sec 2712 (C)
[ ] Evidence of tank precision testing has not been provided annually as required - - - - - -(CCR) Sec 2643

Signature of Business Representative

REGIONAL SUPERVISOR
Title

Department of Health Services; Hazardous Materials Management Division, PO Box 85261 San Diego CA, 92138-5261

DHS:HM-923 (07/89)

(619) 338-2222

HAZARDOUS MATERIALS MANAGEMENT UNIT
ABANDONED UNDERGROUND TANK REPORT

EST. # HL94469 HD
P.C. # NT0974

☒ YES FIRE AGENCY ☐ NO

FIRE AGENCY PERMIT # ~~Santee~~

JURISDICTION _____

PHONE _____

C.G.I. _____

4

OF TANKS TO BE ABANDONED

SITE NAME/ADDRESS ~~Buy Wright Oil~~ 11427 Woodside Santee ZIP _____ PHONE ~~448-5641~~ ~~92071~~

CONTRACTOR Owner/operator PHONE _____

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
1. Tank ID #	T-11	T-20	T23	T19	
2. U/L #					
3. Capacity (Gallons)	2000	550	880	5500	
4. Material Stored	gas	gas	Diesel	Diesel	
5. Decontamination:	yes	yes	yes	yes	
Manifest Available?	Yes	Yes	Yes	Yes	
6. Tank Inerting: (CGIRDS)	3%	0	0	0	
Dry Ice/Nitrogen (Qty)	50 lbs	20 lbs	25 lbs	100 lbs	
7. Tank Condition (Holes)	No	Yes	No	No	
8. Condition of Back Fill & Type	Sand	Sand	Sand	Sand	
9. Condition of Native Soil/Type	Sandy/Clay	Sandy/clay	Sandy/clay	Sandy/clay	
10. Odors From Excavation?	yes	yes	yes	yes	
11. Ponded Product?	No	No	No	No	
12. Ground Water Contamination	?	?	?	?	
13. Tank Closure in Place	No	No	No	No	
14. Pipeline Leak Evident?	possible	No	yes	possible #5	
15. Reinspection Required?	No	No	No	No	
16. Reinspection Receipt Available?	N/A	N/A	N/A	N/A	

REMARKS:
~~Manifest No. 871841334~~
~~Transporter: Vern Jr. Cleaning~~
~~To: Demenno/Kerdoon~~
~~300 gal. gas/water~~
~~#1) Discoloration of soil in area where piping entered hole.~~
~~#2) Soil discolored under bottom of tank~~
~~#3) Soil discolored under tank - No Holes, possible pipeline leak.~~
~~#4) Soil discolored under fill spout of tank.~~
~~Ground water approx. 30 ft. deep.~~ Beds Sand

NOTICE: You are hereby notified that on Wednesday, May 25 1988, Dick Thurlow, Hazardous Materials Specialist of County Department of Health Services, conducted an inspection for the removal and/or abandonment of 4 (four) underground storage tanks of hazardous substances. A summary of conditions found is noted as follows:

☐ No indication of soil or groundwater contamination apparent this date. Excavation may be backfilled.

☒ The conditions noted below must be reported and corrected in accordance with Chapters 6.5 and 6.7 of the California Health and Safety Code and Chapters 9 and 10 of the San Diego County Code.

☐ Hazardous substance/waste is ponded in the excavation. Immediately take steps to remove the ponded hazardous liquid from the excavation. This liquid is a hazardous waste that shall be properly transported, under manifest, by a licensed hazardous waste hauler to a licensed recycling or disposal facility.

☒ Contaminated soil and/or contaminated groundwater is suspected in the excavation. Determining the extent and impact of this contamination and completing any required clean-up is the responsibility of the tank owner/operator. Within 5 work days, the tank owner/operator or his agent must submit a written UNAUTHORIZED RELEASE REPORT to the Department of Health Services including all of the following information that is known at the time of filing the report:

a. Describe the type, quantity and concentration of the hazardous substance released.
b. Provide the results of all investigations completed at this time to determine the extent of soil, groundwater, or surface water contamination due to the release.
c. Describe the method of cleanup implemented to date, proposed cleanup actions, and approximate costs of actions taken to date.
d. Indicate the method and location of disposal of the released hazardous substance and any contaminated soils or groundwater or surface water. (If any contaminated soil/water is hauled off-site, include copies of the hazard waste manifests).
e. Include the tank operator's name and telephone number, the name and telephone number of any consultants retained, and a projection of proposed activity schedule.

Subsequent mitigation actions will be discussed upon review of the submitted Report and consultation with other appropriate agencies.

- REFER TO REVERSE SIDE FOR ADDITIONAL INFORMATION/REQUIREMENTS -

Received by Dennis F. Fransway

Phone # 619-562-3152

Richard J. Thurlow
Hazardous Materials Specialist Signature

County of San Diego
Department of Health Services
HMMU - 1700 Pacific Highway
San Diego, CA 92101-2489
(619) 236-2222

DHS:HM-9160 (11/86)

Field Observations and Notes:

1. Type of hazardous substance released: gas / Diesel
2. Is hazardous substance ponded? No Estimated amount —
3. Is amount of hazardous substance release known? No Estimated amount —
4. Estimated depth to groundwater 30 ft.
5. Is there an existing or potential beneficial use of the groundwater identified in the Basin Plan? yes
6. Soil conditions:
   a. Is backfill discolored? yes Estimated amount ≈ 2 yds
   b. Is backfill saturated? No Estimated amount —
   c. Is native soil discolored? No Estimated amount —
   d. Is native soil saturated? No Estimated amount —
   e. Type of native soil (sandy, clay, etc.) Sandy clay
7. Description of odors from excavation Smell of gasoline vapors.
8. Condition of tank (holes, corrosion, deteriorated wrapping, etc.) all the tanks came out of different holes, discoloration in soil in area of fill to tanks, only one tank with holes in it.
9. Pipeline leak evident? Yes.
10. Nearby underground vaults or utilities or basements? (Specify) No
11. Nearby water wells or surface waters? yes- testing wells around property.
12. Other comments/observations: _____

DHS:HM-916 (3/87)

[redacted]TY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES

[redacted] USE:
Plan Check # NT0974
Date Received 4/18/88
Fee Paid 762
Plan Approval 5/16/88
Estab # 194609
Hydro Unit 7.1
Benef. Use YES

UNDERGROUND HAZARDOUS MATERIALS STORAGE TANK FACILITY

PERMIT APPLICATION

PART I

GENERAL PROJECT INFORMATION

A. SITE ADDRESS: 11427 Woodside Ave. (Street) Santee (City) 92071 (Zip Code)

B. PROPERTY OWNER:
Company WRIGHT OIL COMPANY Contact BOB WRIGHT
Mailing Address 8685 N. Magnolia Ave. City Santee Zip 92071
Phone (619) 562-3152
24 Hr. Emergency Contact Wright Oil Co. Phone (619) 562-3152

NOV 5/16/88

C. TANK OPERATOR:
Company Buy Wright Oil Company Contact Marvin Paeper
Mailing Address 11427 Woodside City Santee Zip 92071
Phone (619) 448-5891
24 Hr. Emergency Contact Wright Oil Co. (Dispatch) Phone (619) 562-3152

D. CONTRACTOR:
Primary Contractor SAME Contact
Mailing Address City Zip
Phone ( )
State Contractor License No.
Worker's Compensation Insurance Company Phone ( )
Check Here if Owner/Builder: [X]

E. APPLICATION SUBMITTAL, PLAN APPROVAL, PERMIT ISSUANCE, AND REQUIRED INSPECTIONS:

Submit three (3) copies of this application package, including plan drawings, with the required fee to the Department of Health Services, Hazardous Materials Management Unit, Room 311, 1700 Pacific Highway, San Diego, CA 92101. Checks should be made payable to the County of San Diego.

A permit will be issued by the Department of Health Services (DHS) upon review and approval of the application and plans. The required fees must be submitted with the application package. Information in addition to that presented in this application package may be needed in order to obtain final approval. No work is to begin on the proposed project until a permit has been issued. The required inspections cannot be scheduled until a permit has been issued.

Once the permit has been issued, it is the permittee's responsibility to notify the DHS at least two (2) working days in advance to schedule each required inspection.

Construction stages at which inspections are required are indicated in each subpart of this application form (i.e., Part II, III and IV).

COUNTY OF SAN DIEGO

DEPARTMENT OF HEALTH SERVICES
1700 Pacific Highway, San Diego, CA 92101

SMOKING ENDANGERS EVERYONE'S HEALTH

DIVISION OF ENVIRONMENTAL HEALTH PROTECTION
HAZARDOUS MATERIALS MANAGEMENT UNIT
(619) 236-2222

DATE: March 22, 1988

MEMORANDUM FOR: California Regional Water Quality Control Board, San Diego Region

FROM: Hazardous Materials Management Unit (HMMU)

SUBJECT: UNAUTHORIZED RELEASE OF HAZARDOUS MATERIAL FROM AN UNDERGROUND STORAGE TANK T# 0948 / ~~H0447~~ H19469

Evidence of an unauthorized release of a hazardous material has been noted by HMMU staff at the site described below:

Site Address: 11427 Woodside Avenue (Street) Lakeside (City) _____ (Zip Code)

Property Owner: Anthony T. Sitty (Name)
Lawyer for owner
3430 Camino Del Rio North Ste 300 SD (Street / City) 92108 (Zip Code)
Telephone (619) 281-3366

Tank Operator: Wigington Petroleum Inc (Name) (See Tank Permit) _____ (Telephone)

The following information is provided for your consideration and action in accordance with the authority and responsibilities of the Regional Board.

Suspected Source(s) Possible Leaking Tank system

Amount Released unk (Gallons) unk (Time Period)

Release Detected By:

- ____ Routine Tank Testing
- ____ Test of Piping
- ____ Inventory Audit
- ✓ Monitoring Device/Well
- ____ Evidence of Soil Contamination Detected During Tank Removal
- ____ Evidence of Leaky Tank Detected During Tank Removal
- ____ Other

Description of underground tank systems on property (number, type, age, capacity. material stored, evidence of leakage). Six Diesel Tanks on-site, 6260 capacity, 1-7500 gal-Reg and 1-2000 gallon-UL

Date Release Reported to or Detected by HMMU 3/22/88

Contact With Other Agencies _____

Additional Comments:

Free product discovered in well.
Site assessment under way.

Please call the HMMU at 236-2222 if you have questions or comments regarding the above.

HMMU Staff Darryl J Fowler

DHS:HM-9010 (12/86)

PETRO-TITE DATE: 8-18 & 8-19-86

OWNER: PROP. NAME: RAM OIL

TANKS XX ADDRESS: 11427 WOODSIDE AVE. SANTEE, CA 92071 TELE: 619-448-5891

REASON FOR TEST: TO DETERMINE TIGHTNESS OF: UNDERGROUND ISOLATED TANKS; UNDERGROUND TANK/SYSTEMS ****

WHO REQUESTED TEST AND WHEN: NAME: JIM WIGINGTON

WHO IS PAYING FOR THIS TEST: NAME: RAM OIL

TANKS INVOLVED

	DIRECTION	CAPACITY	BRAND	GRADE	STEEL/FIBERGLASS
	#2	7,500		REGULAR	STEEL
SIPHONE\	#7	6,198		DIESEL	STEEL
SIPHONE/	#8	6,198		DIESEL	STEEL
SIPHONE\	#9	6,198		DIESEL	STEEL
SIPHONE/	#10	6,198		DIESEL	STEEL
	#5	2,510		SOLVENT	STEEL
	#6	2,015		UNLEADED	STEEL
	#4	550		KEROCINE	STEEL
	#1	550		RACING GAS	STEEL
	#3	550		WASTE OIL	STEEL

INSTALLATION DATA

LOCATION	COVER	FILLS	VENTS	SIPHONES	PUMPS
	CONCRETE A.C. PAVE DIRT	2" 4"	2" 1 1/2"	YES	REMOTE SUCTION

UNDERGROUND WATER: DEPTH OF WATER TABLE _____ IS WATER OVER TANK X YES----- NO-----

FILL-UP ARRANGEMENTS: DATE TANKS TO BE FILLED 8-18 & 8-19-86 @ 7:00 A.M. ARRANGED BY: JIM WIGINGTON

TEST RESULTS

	TANK IDENTIFICATION		TIGHT	LEAKAGE INDICATED	DATE TESTED
	7,500	REGULAR	YES	+.040 GALS. PER HR.	8-18 & 8-19-86
SIPHONE\	6,198	DIESEL	YES	-.038 GALS. PER HR.	8-18 & 8-19-86
SIPHONE/	6,198	DIESEL	YES	-.038 GALS. PER HR.	8-18 & 8-19-86
SIPHONE\	6,198	DIESEL	YES	-.045 GALS. PER HR.	8-18 & 8-19-86
SIPHONE/	6,198	DIESEL	YES	-.045 GALS. PER HR.	8-18 & 8-19-86
	2,510	SOLVENT	YES	-.012 GALS. PER HR.	8-18 & 8-19-86
	2,015	UNLEADED	NO	-3.466 GALS. PER HR	8-18 & 8-19-86
	550	KEROCINE	YES	-.020 GALS. PER HR.	8-18 & 8-19-86
	550	RACING GAS	YES	-.039 GALS. PER HR.	8-18 & 8-19-86
	550	WASTE OIL	YES	-.032 GALS. PER HR.	8-18 & 8-19-86

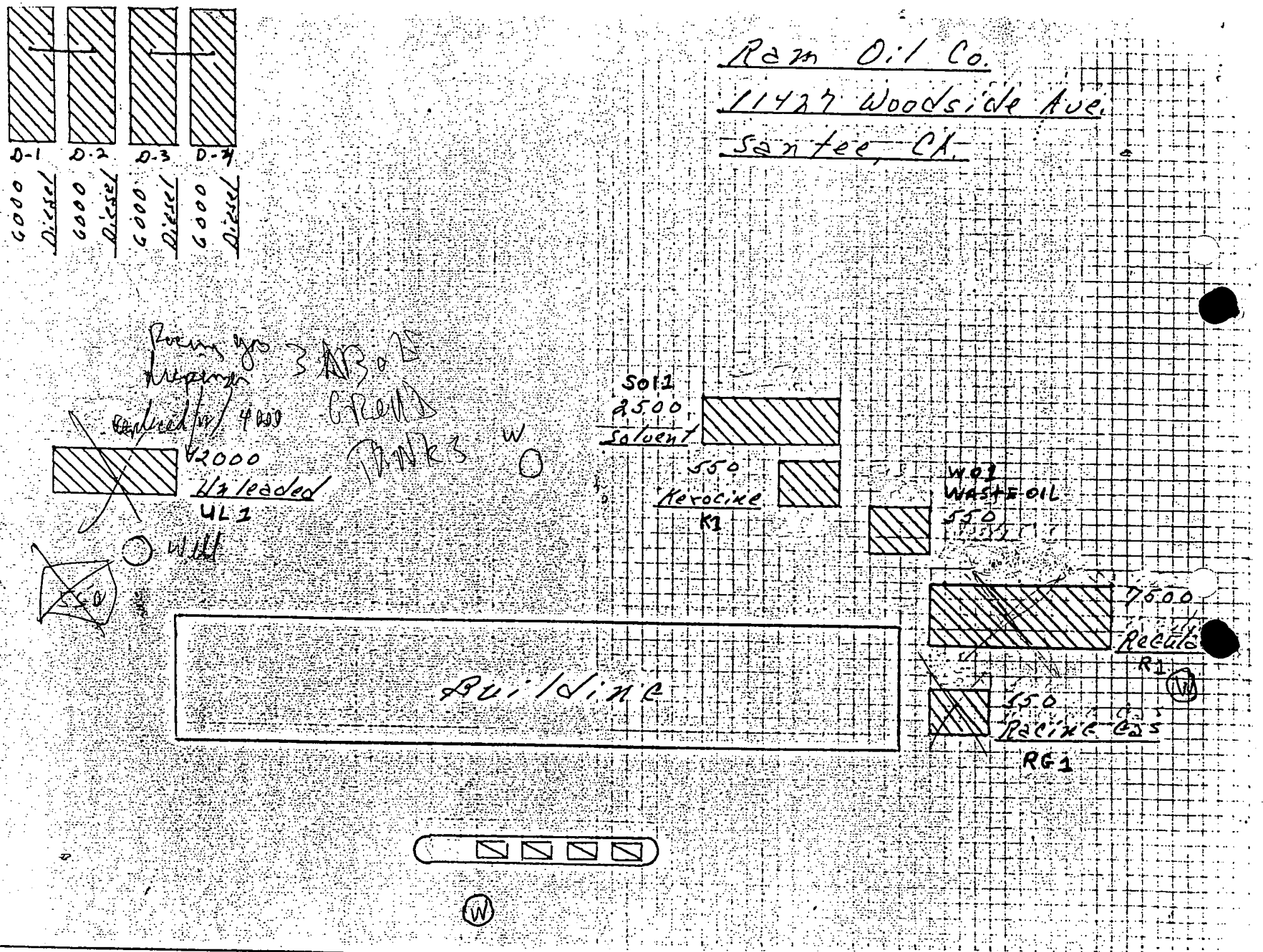
CERTIFICATION JULY 1985 VARIOUS serial no thermal sensor

THIS IS TO CERTIFY THAT THESE TANK SYSTEMS WERE TESTED ON THE DATE(S) SHOWN. THOSE INDICATED AS "TIGHT" MEET THE CRITERIA ESTABLISHED BY THE NATIONAL FIRE PROTECTION ASSOC. PAMPH. 329

DAVE PROCTOR
MIKE REYOME
DICK CUMMINGS
technicians

VOWCO INC.
1450 N. EL CAMINO REAL #C
SAN CLEMENTE, CA 92672

serial # 414810788


Ram Oil Co.
11437 Woodside Ave.
Santee, CA.
D-1
6000
Diesel
D-2
6000
Diesel
D-3
6000
Diesel
D-4
6000
Diesel
Pumps for 3 AST's
Replaced w/ 4000
2000
Unleaded
UL1
Will
SOL2
2500
Solvent
550
Kerosine
K1
WO1
WASTE OIL
550
7500
Regular
R1
W
550
Racing Gas
RG1
Building
W

ELISE ROTHSCHILD
Director

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
Phone: (858) 505-6700 or (800) 253-9933
www.sdcdeh.org

AMY HARBERT
Assistant Director

May 23, 2017

Mr. Matt Cullen
RMMC Land Company, LLC
1543 W. 16th Street
Long Beach, CA 90813

Ms. Linda Wigington
Wigington Petroleum Inc.
P.O. Box 2504
Spring Valley, CA 91979

Dear Responsible Parties:

UNDERGROUND STORAGE TANK (UST) CASE H19469-001
EL CAPITAN OIL COMPANY
11427 WOODSIDE AVENUE, SANTEE, CA

This letter confirms the completion of a site investigation and corrective action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the underground storage tank release is greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tanks site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code, and that no further action related to the petroleum releases at the site is required.

Claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (g) of Section 25296.10 of the Health and Safety Code. Please contact James Clay at (858) 505-6969 if you have questions regarding this matter.

Sincerely,

Elise Rothschild

ELISE ROTHSCHILD, REHS
Director, Department of Environmental Health

Attachment: Case Closure Summary

cc: Mr. Chuck Houser, SCS Engineers (via electronic mail)

UST Case Closure Summary Form

Agency Information

Agency Name: County of San Diego, Department of Environmental Health	Address: 5500 Overland Avenue, Suite 210
City/State/Zip: San Diego, CA 92123	Phone: 858-505-6969
Staff Person: James Clay	Title: Environmental Health Specialist III

Case Information: (expand if needed)

Facility Name: El Capitan Oil Company		
Facility Address: 11427 Woodside Avenue, Santee, CA 92071		
RB LUSTIS Case No: N/A	Local Case No.: H19469-001	LOP Case No.: N/A
URF Filing Date: 4/18/1988	Sweeps No.: N/A	
Responsible Party(s): Mr. Matt Cullen RMMC Land Company, LLC Ms. Linda Wigington Wigington Petroleum Inc.	Address: 1543 W. 16th Street Long Beach, CA 90813 P.O. Box 2504 Spring Valley, CA 91979	

Tank Information

Tank No.	Size (gal)	Contents	Closed in-Place/ Removed/Active	Date
T001	2,000	Gasoline	Removed	5/25/1988
T002	550	Gasoline	Removed	5/25/1988
T003	880	Diesel	Removed	5/25/1988
T004	7,500	Diesel	Removed	5/25/1988
T005	7,500	Gasoline	Removed	4/29/1998
T006	7,500	Diesel	Removed	4/29/1998
T007	550	Waste Oil	Removed	4/29/1998
T008	2,500	Gasoline	Removed	4/29/1998
T009	550	Waste Oil	Removed	4/29/1998
T010	6,000	Diesel	Removed	4/29/1998
T011	6,000	Diesel	Removed	4/29/1998
T012	6,000	Diesel	Removed	4/29/1998
T013	6,000	Diesel/Kerosene	Removed	4/29/1998

Conceptual Site Model (CSM is Attached)

Closure Criteria Met (LTCP Report is Attached)

Optional Site map(s) (Refer to attached Figure 1 and Figure 2 from the report titled *Groundwater Monitoring Report Third and Fourth Quarter 2015 and Request for Closure*, dated March 17, 2016)

Additional Information: **H19469-001**

The Site is located at 11427 Woodside Avenue in Santee, California. The Site is currently occupied by a commercial fuel and oil facility. Between 1987 and 1998, 13 underground storage tanks (USTs) were reportedly removed from the Site. Analysis of soil samples collected during the UST removals indicated that a release of petroleum hydrocarbons had occurred from the UST system. The County of San Diego directed that corrective measures be taken regarding the release and opened Unauthorized Release Case H19469-001 in 1988.

A summary of the previous environmental assessments conducted at the Site follows:

- **In 1988, four USTs were removed from the Site. A Site assessment was performed immediately following the tank removal activities, during which 11 soil borings were drilled and sampled, and four of the borings were completed as groundwater monitoring wells (MW-1 through MW-4).**
- **Single-walled product piping was removed from the Site in October 1997.**
- **In April 1998, nine USTs were removed from the Site and indicated a release of petroleum hydrocarbons.**
- **A 33-day high-vacuum, dual-phase extraction (HVDPE) pilot test was conducted between January 22 and February 24, 2008. Approximately 3,256 pounds of petroleum hydrocarbons were removed and treated during the pilot test. Approximately 128,620 gallons of hydrocarbon-affected water was extracted and treated.**
- **In 2008, well MW-5 was destroyed by permit.**
- **Five nested soil vapor probes (SV1 through SV5), near the Site building, were sampled in March and April 2011. It was concluded that there is a low likelihood that a significant health risk exists in connection with the concentrations of petroleum hydrocarbons in soil vapor beneath the on-Site building.**
- **During the second quarter 2012 groundwater monitoring event, free product with the appearance of red-dyed diesel fuel was measured in well MW-10. Similar free product has subsequently been monitored in wells MW-2, MW-3, MW-13, and MW-17. A separate DEH Voluntary Assistance Program (VAP) Case H19469-005 was opened on September 12, 2012 to address the release of red-dyed diesel from the on-Site aboveground storage tank (AST) system.**
- **A Corrective Action Plan was submitted for the case on March 30, 2015, in which monitored natural attenuation was recommended for the dissolved-phase gasoline plume as the most cost-effective and technically feasible remediation strategy for the Site.**
- **On April 24, 2015, the DEH issued a letter in response to the CAP, requiring the collection of groundwater samples from source area wells MW-1, MW-3, MW-5, MW-6, and MW-14, upgradient well MW-7, and downgradient well MW-18, for**

Additional Information: **H19469-001**

analysis for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary butyl ether (MTBE), ethyl tert-butyl ether (ETBE), tertiary amyl methyl ether (TAME), di-isopropyl ether (DIPE), and tertiary butyl alcohol (TBA), (collectively, fuel oxygenates), and natural attenuation parameters.

- **Based on discussions with the environmental consultant, on April 29, 2015, DEH required two rounds of quarterly sampling for source area wells MW-1, MW-3 (by dropping a bailer through the red-dyed diesel free product), and MW-6, upgradient well MW-7, and downgradient well MW-18 for analysis for TPH, BTEX, fuel oxygenates, and natural attenuation parameters.**

- **Based on the results from the third and fourth quarter 2015 sampling events, remediation by natural attenuation (RNA) is occurring at the Site. SCS has prepared estimates for dissolved phase benzene and methyl tertiary butyl ether (MTBE) to attenuate to their respective maximum contaminant levels (MCLs) for the Site. The estimated benzene concentration, based on this evaluation, will attenuate to its MCL of 1.0 microgram per liter (µg/L) in July 2056 in well MW-14. The estimated MTBE concentration, based on this evaluation, will attenuate to its MCL of 13 µg/L in April 2033 in well MW-14.**

During the public comment period for the case, DEH received comments on July 8, 2016 from the City of San Diego regarding closure. The City cited the proximity of the Site to nearby receptors, such as the San Diego River and the Riverview Well Field. DEH responded that, based upon the distance from the receptors to the Site, it is unlikely that the receptors would be impacted by the gasoline release.

The following table shows the maximum COC concentrations detected at the Site:

	TPH-G	TPH-D	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA
Groundwater (µg/L)	46,000	190,000	6,600	1,400	4,100	13,380	4,100	2,100
Soil (mg/kg)	11,000	115,444	65	475	2,600	590	130	<0.025
Vapor(µg/l)	N/A	N/A	5.9	N/A	38	N/A	<10	N/A

The following table shows the residual COC concentrations that remain at the Site:

	TPH-G	TPH-D	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TBA
Groundwater (µg/l)	26,000	3,500	350	59	2,800	3,400	<100*	720
Soil (mg/kg)	11,000	115,444	65	475	2,600	590	130	<0.025
Vapor (µg/l)	N/A	N/A	5.9	N/A	38	N/A	<10	N/A

Additional Information: **H19469-001**

	Before	After
LPH (feet)	0.31	0

The case was evaluated under the State's Low-Threat Underground Storage Tank Case Closure Policy (the Policy). Current and historical soil and groundwater data indicate that the secondary source has been adequately removed and a stable to decreasing plume remains. DEH concurred that the case qualifies for a low-risk closure designation.

ANY CONTAMINATED SOIL EXCAVATED AS PART OF SUBSURFACE CONSTRUCTION WORK MUST BE MANAGED IN ACCORDANCE WITH THE LEGAL REQUIREMENTS AT THAT TIME.

Permit DEH2016-LMWP-002565 was issued for the destruction of groundwater monitoring wells MW-6, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, and MW-19. The remaining wells are being retained for Voluntary Assistance Program Case H19469-005.

***Detection limit elevated due to dilution. The highest actual result is 9.2 µg/l.**

Additional Information: **H19469-001**

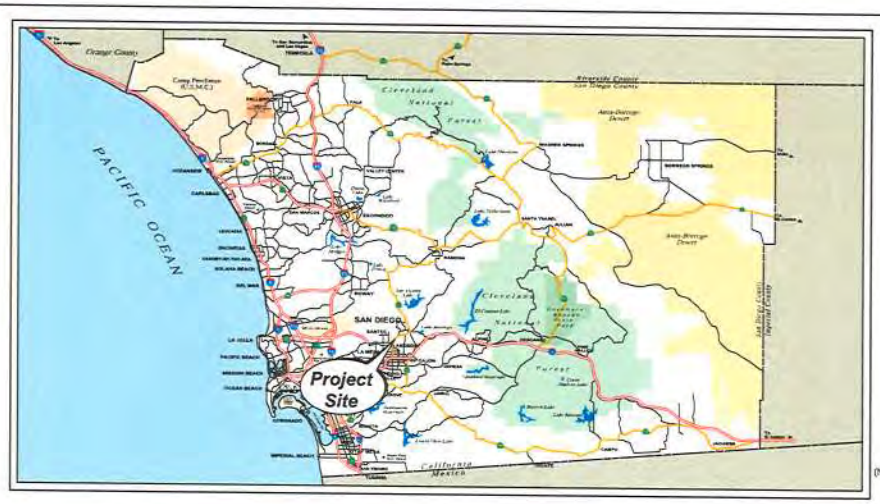
Corrections to SCM

- **The most recent concentrations in groundwater on the SCM report the word "Other" has been placed in the TPHg and total xylenes columns. The data uploaded was not in the correct format for the GeoTracker Report.**

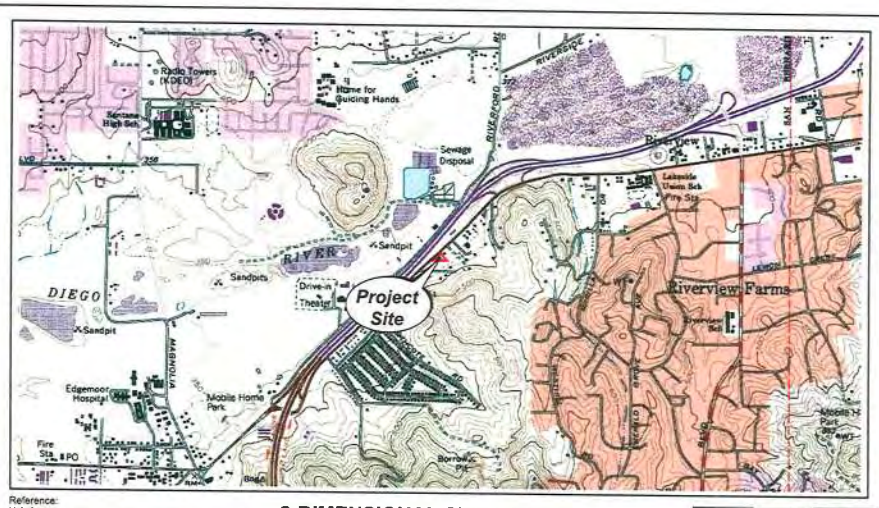
Well#	Gasoline Range Organics (C4-C12) (µg/l)	Total Xylenes (µg/l)	Well#	Gasoline Range Organics (C4-C12) (µg/l)	Total Xylenes (µg/l)
MW-1	N/A	ND	MW-18	N/A	N/A
MW-2	ND	11.6	MW-19	43,000	N/A
MW-3	N/A	ND	MW1	1,100	N/A
MW-4	ND	1.3	MW2	6,000	N/A
MW-6	N/A	1.1	MW3	9,700	N/A
MW-7	N/A	ND	MW4	15,000	N/A
MW-8	ND	ND	MW5	400	N/A
MW-9	ND	13	MW6	25,000	N/A
MW-10	ND	N/A	MW7	1,900	N/A
MW-11	2,000	N/A	MW8	4,800	N/A
MW-12	ND	N/A			
MW-13	ND	N/A			
MW-14	25,000	N/A			
MW-15	26,000	N/A			
MW-16	ND	N/A			
MW-17	ND	N/A			

Local Agency Representative

Name: Ewan Moffat	Title: Environmental Health Specialist II, PG 7207, CHg 972
Signature:	*Date:* 5/23/17



REGIONAL SITE LOCATION



Reference:
U.S.G.S. 7.5 Minute Quadrangle map
El Cajon, California - 1977. Photo revised 1982.

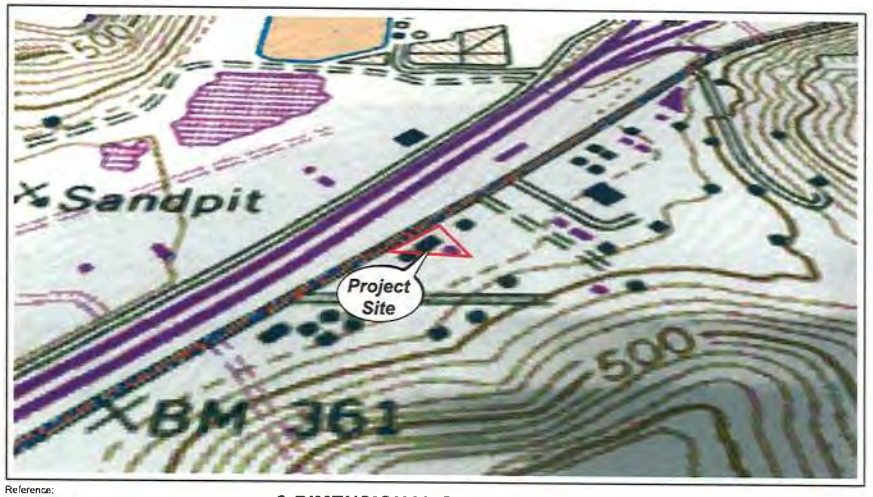
2-DIMENSIONAL SITE LOCATION

0 1,000 2,000 3,000
Approximate Graphic Scale in Feet



Reference:
Google Earth Aerial Photograph
Santee, California - February 2008

SITE AERIAL PHOTOGRAPHY

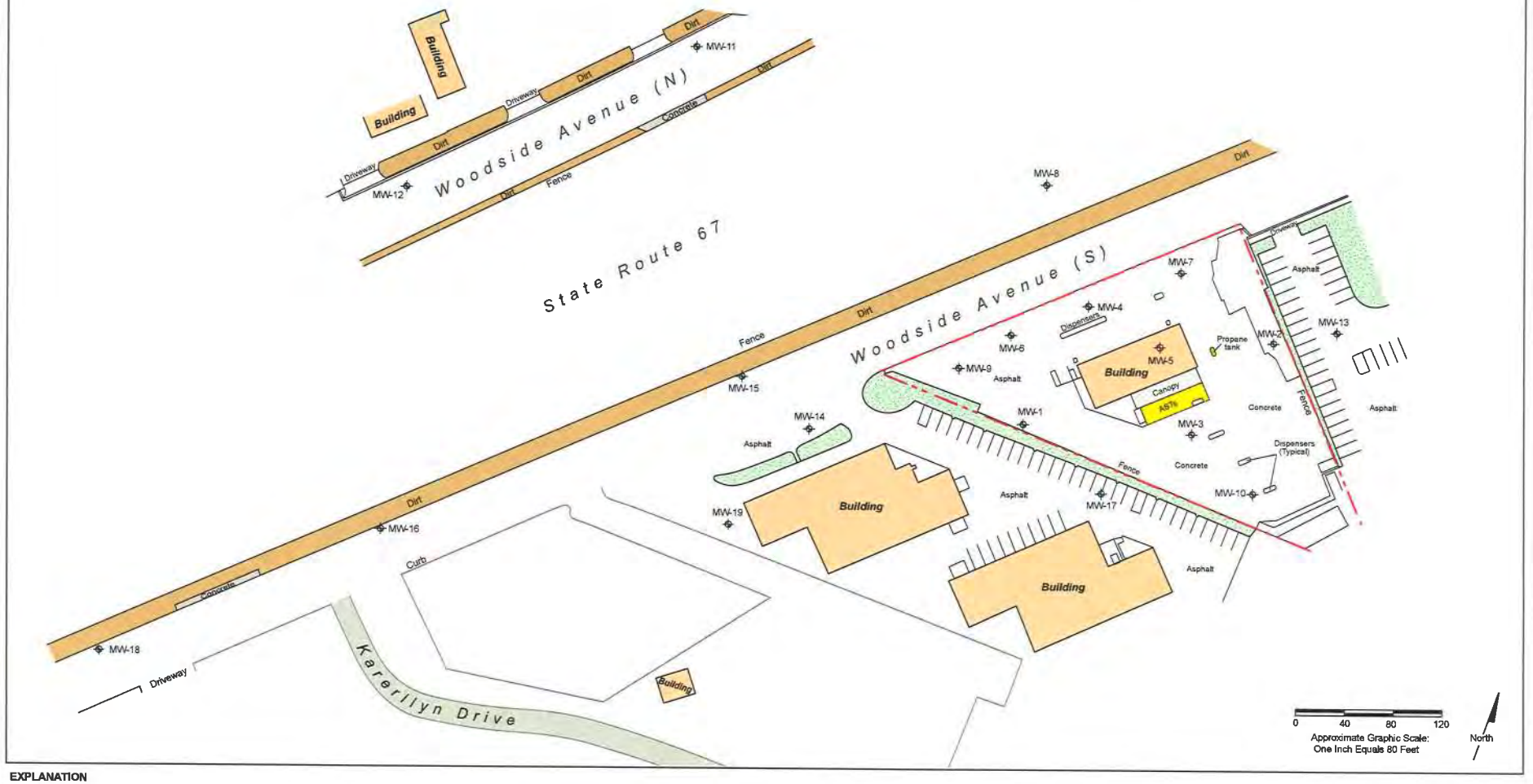


Reference:
U.S.G.S. 7.5 Minute Quadrangle map
El Cajon, California - 1977. Photo revised 1982.

3-DIMENSIONAL SITE LOCATION

Disclaimer: This figure is based on available data. Actual conditions may differ. All locations and dimensions are approximate.

SCS ENGINEERS Environmental Consultants 8799 Balboa Avenue, Suite 290 San Diego, California 92123	**4-WAY SITE LOCATION MAP** **Wigington Oil** 11427 Woodside Avenue Santee, California	**Project No.:** **01208473.00** **Figure 1** **Date Drafted:** **11/4/09**



EXPLANATION

MW-16 — Groundwater monitoring well location

MW-5 — Well destroyed

Approximate Site boundary

AST = aboveground storage tank

Disclaimer: This figure is based on available data. Actual conditions may differ. All locations and dimensions are approximate.

SCS ENGINEERS
Environmental Consultants
8799 Balboa Avenue, Suite 290
San Diego, California 92123

SITE MAP
Wigington Oil
11427 Woodside Avenue
Santee, California

Project No.: 01208473.00

Figure 2

Date Drafted: 3/3/16

GEOTRACKER | Regulator Tools | Reports | Other Tools | GAMA | Contact | Logout | Quick Search

EL CAPITAN OIL COMPANY (T0607303173) - MAP THIS SITE

PUBLIC PAGE

11427 WOODSIDE AV
SANTEE , CA 920714725
SAN DIEGO COUNTY
LUST CLEANUP SITE
STATUS: OPEN - ELIGIBLE FOR CLOSURE

PERTINENT INFORMATION:
CUF Claim #: 912 CUF Priority Assigned: C CUF Amount Paid: $495,654

CLEANUP OVERSIGHT AGENCIES
SAN DIEGO COUNTY LOP *(LEAD)* - *CASE #: H19469-001* - JAMES CLAY
SAN DIEGO RWQCB (REGION 9) - *CASE #: 9UT938*

Activities Report | Documents / Data | Environmental Conditions | Admin | Funding | Case Reviews

THIS PROJECT WAS LAST MODIFIED BY JAMES CLAY ON 4/26/2017 8:23:21 AM - HISTORY

CLOSURE POLICY ***THIS VERSION IS FINAL AS OF 4/26/2017*** *CHECKLIST INITIATED ON 2/26/2013* CLOSURE POLICY HISTORY

General Criteria - *The site satisfies the policy general criteria* - CLEAR SECTION ANSWERS — **YES**

a. Is the unauthorized release located within the service area of a public water system? — ◉ YES ○ NO
Name of Water System: Padre Dam Municipal Water District

b. The unauthorized release consists only of petroleum (info). — ◉ YES ○ NO

c. The unauthorized ("primary") release from the UST system has been stopped. — ◉ YES ○ NO

d. Free product has been removed to the maximum extent practicable (info). — ○ FP Not Encountered ◉ YES ○ NO

e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed (info). — ◉ YES ○ NO

f. Secondary source has been removed to the extent practicable (info). — ◉ YES ○ NO

g. Soil or groundwater has been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15. — ○ Not Required ◉ YES ○ NO

h. Does a nuisance exist, as defined by Water Code section 13050. — ○ YES ◉ NO

1. Media-Specific Criteria: Groundwater - *The contaminant plume that exceeds water quality objectives is stable or decreasing in areal extent, and meets all of the additional characteristics of one of the five classes of sites listed below.* - CLEAR SECTION ANSWERS — **NO**

EXEMPTION - Soil Only Case (Release has not Affected Groundwater - Info) — ○ YES ◉ NO

Does the site meet any of the Groundwater specific criteria scenarios? — ○ YES ◉ NO

ADDITIONAL QUESTIONS - Please indicate only those conditions that do not meet the policy criteria:

Plume Length (That Exceeds Water Quality Objectives) :
○ ≥ 100 Feet and < 250 Feet ◉ ≥ 250 Feet and < 1,000 Feet ○ ≥ 1,000 Feet ○ Unknown

Plume is Stable or Decreasing in AREAL Extent :
○ No ◉ Unknown

Free Product in Groundwater :
○ Yes ◉ No ○ Unknown

Free Product Has Been Removed to the Maximum Extent Practicable :
◉ No ○ Unknown

For sites with free product, the Plume Has Been Stable or Decreasing for 5-Years (Info) :
○ No ○ Unknown

For sites with free product, owner Willing to Accept a Land Use Restriction (If required) :
○ No ○ Unknown

Free Product Extends Offsite :
○ Yes ○ Unknown

Benzene Concentration :
◉ ≥ 1,000 µg/l and < 3,000 µg/l ○ ≥ 3,000 µg/l ○ Unknown

MTBE Concentration :
◉ ≥ 1,000 µg/l ○ Unknown

Nearest Supply Well (From Plume Boundary) :
○ ≤ 250 Feet ○ > 250 Feet and ≤ 1,000 Feet ◉ Unknown

Nearest Surface Water Body (From Plume Boundary) :
○ ≤ 250 Feet ○ > 250 Feet and ≤ 1,000 Feet ○ Unknown

2. Media Specific Criteria: Petroleum Vapor Intrusion to Indoor Air - *The site is considered low-threat for the vapor-intrusion-to-air pathway if site-specific conditions satisfy items 2a, 2b, or 2c* - CLEAR SECTION ANSWERS — **YES**

EXEMPTION - Active Commercial Petroleum Fueling Facility — ◉ YES ○ NO

3. Media Specific Criteria: Direct Contact and Outdoor Air Exposure - *The site is considered low-threat for direct contact and outdoor air exposure if it meets 1, 2, or 3 below.* - CLEAR SECTION ANSWERS — **YES**

EXEMPTION - The upper 10 feet of soil is free of petroleum contamination — ◉ YES ○ NO

Additional Information

Should this case be closed in spite of NOT meeting policy criteria? — ◉ YES ○ NO
Explain:
Plume length may not meet policy criteria; however no sensitive receptors have been identified and plume is stable and decreasing.

Has this LTCP Checklist been updated for FY 16/17? — ◉ YES ○ NO

SPELL CHECK

Save Form as Partially Completed | Save Form as Complete

GEOTRACKER | Regulator Tools | Reports | Other Tools | GAMA | Contact | Logout | Quick Search

EL CAPITAN OIL COMPANY (T0607303173) - MAP THIS SITE

PUBLIC PAGE

11427 WOODSIDE AV
SANTEE , CA 920714725
SAN DIEGO COUNTY
LUST CLEANUP SITE
STATUS: OPEN - ELIGIBLE FOR CLOSURE

PERTINENT INFORMATION:
CUF Claim #: 912 CUF Priority Assigned: C CUF Amount Paid: $495,654

CLEANUP OVERSIGHT AGENCIES
SAN DIEGO COUNTY LOP *(LEAD)* - *CASE #: H19469-001* - JAMES CLAY
SAN DIEGO RWQCB (REGION 9) - *CASE #: 9UT938*

Activities Report | Documents / Data | Environmental Conditions | Admin | Funding | Case Reviews

THIS PROJECT WAS LAST MODIFIED BY JAMES CLAY ON 4/26/2017 8:23:21 AM - HISTORY

CSM REPORT - VIEW PUBLIC NOTICING VERSION OF THIS REPORT

UST CLEANUP FUND CLAIM INFORMATION (DATA PULLED FROM SCUFIIS)

CLAIM NO	PRIORITY	CLAIMANT	SITE ADDRESS	AMT REIMB TO DATE	AGE OF LOC	IMPACTED WELLS?	FIVE YEAR REVIEW INFORMATION				
							REVIEW NUM	REVIEWER	FUND RECOMMENDATION	TO OVERSIGHT DATE	TO CLAIMANT DATE
912	C	WIGINGTON PETROLEUM, INC. 5464 GROSSMONT BOULEVARD, 3RD FLOOR, LA MESA CA 91942	11427 WOODSIDE AVENUE SANTEE, CA 92071	$495,654	17		2	Ramesh Sundareswaran	Concurred with Current Corrective Action	9/19/2011	

PROJECT INFORMATION (DATA PULLED FROM GEOTRACKER) - MAP THIS SITE

SITE NAME / ADDRESS	STATUS	STATUS DATE	RELEASE REPORT DATE	AGE OF CASE	CLEANUP OVERSIGHT AGENCIES
EL CAPITAN OIL COMPANY (Global ID: T0607303173) 11427 WOODSIDE AV SANTEE, CA 920714725	Open - Eligible for Closure	4/26/2017	3/2/1988	29	SAN DIEGO COUNTY LOP *(LEAD)* - *CASE #: H19469-001* ***CASEWORKER:*** *JAMES CLAY* - ***SUPERVISOR:*** *COLLEEN HINES* SAN DIEGO RWQCB (REGION 9) - *CASE #: 9UT938*

STAFF NOTES (INTERNAL)
- Complaint Date: 02-MAR-88

SITE HISTORY

The Site is located at 11427 Woodside Avenue in Santee, California. The Site is currently occupied by a commercial fuel and oil facility. Between 1987 and 1998, 13 underground storage tanks (USTs) were reportedly removed from the Site. Analysis of soil samples collected during the UST removals indicated that a release of petroleum hydrocarbons had occurred from the UST system. The County of San Diego directed that corrective measures be taken regarding the release and opened Unauthorized Release Case H19469-001 in 1988.

A summary of the previous environmental assessments conducted at the Site follows:

- In 1988, four USTs were removed from the Site. A Site assessment was performed immediately following the tank removal activities, during which 11 soil borings were drilled and sampled, and four of the borings were completed as groundwater monitoring wells (MW-1 through MW-4).
- Single-walled product piping was removed from the Site in October 1997.
- In April 1998, nine USTs, reportedly removed from the Site, indicated a release of petroleum hydrocarbons.
- A 33-day high-vacuum, dual-phase extraction (HVDPE) pilot test was conducted between January 22 and February 24, 2008. Approximately 3,256 pounds of petroleum hydrocarbons were removed and treated during the pilot test. Approximately 128,620 gallons of hydrocarbon-affected water was extracted and treated.
- In 2008, well MW-5 was destroyed by permit.
- Five nested soil vapor probes (SV1 through SV5), near the Site building, were sampled in March and April 2011. It was concluded that there is a low likelihood that a significant health risk exists in connection with the concentrations of petroleum hydrocarbons in soil vapor beneath the on-Site building.
- During the second quarter 2012 groundwater monitoring event, free product with the appearance of red-dyed diesel fuel was measured in well MW-10. Similar free product has subsequently been monitored in wells MW-2, MW-3, MW-13, and MW-17. A separate DEH Voluntary Assistance Program (VAP) Case H19469-005 was opened on September 12, 2012 to address the release of red-dyed diesel from the on-Site aboveground storage tank (AST) system.
- A CAP was submitted for the case on March 30, 2015, in which monitored natural attenuation was recommended as the most cost-effective and technically feasible strategy for the Site.
- On April 24, 2015, the DEH issued a letter in response to the CAP, requiring the collection of groundwater samples from source area wells MW-1, MW-3, MW-5, MW-6, and MW-14, upgradient well MW-7, and downgradient well MW-18, for analysis for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary butyl ether (MTBE), ethyl tert-butyl ether (ETBE), tertiary amyl methyl ether (TAME), di-isopropyl ether (DIPE), and tertiary butyl alcohol (TBA), (collectively, fuel oxygenates), and natural attenuation parameters.
- Based on discussions with the environmental consultant, on April 29, 2015, DEH required two rounds of quarterly sampling for source area wells MW-1, MW-3 (by dropping a bailer through the free product), and MW-6, upgradient well MW-7, and downgradient well MW-18 for analysis for TPH, BTEX, fuel oxygenates, and natural attenuation parameters.

During the public comment period for the case, DEH received comments on July 8, 2016 from the City of San Diego regarding closure. The City cited the proximity of the Site to nearby receptors, such as the San Diego River and the Riverview Well Field. DEH responded that, based upon the distance from the receptors to the Site, it is unlikely that the receptors would be impacted by the gasoline release.

The case for closure was evaluated under the State's Low-Threat Underground Storage Tank Case Closure Policy (the Policy). Current and historical soil and groundwater data indicate that the secondary source has been adequately removed and a stable to decreasing plume remains. Site conditions meet the general and media-specific criteria established in the Policy. Low-threat closure of the case was recommended. It was concluded that the case qualifies for a low-risk closure designation and it was recommended that DEH grant low-risk closure for Unauthorized Release Case H19469-001. DEH concurred that the case qualifies for a low-risk closure designation. Permit DEH2016-LMWP-002565 was issued for the destruction of groundwater monitoring wells MW-6, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, and MW-19. The remaining wells are being retained for Voluntary Assistance Program Case H19469-005.

RESPONSIBLE PARTIES

NAME	ORGANIZATION	ADDRESS	CITY	EMAIL
LINDA WIGINGTON	WIGINGTON PETROLEUM INC	2027 PARASIO AV	Spring Valley	

CLEANUP ACTION INFO

ACTION TYPE	BEGIN DATE	END DATE	PHASE	CONTAMINANT MASS REMOVED	DESCRIPTION
DUAL PHASE EXTRACTION	1/22/2008	2/24/2008	Soil Vapor, Liquid Waste	3,256 Pounds / 128,620 Gallons	

RISK INFORMATION

VIEW LTCP CHECKLIST | VIEW PATH TO CLOSURE PLAN | VIEW CASE REVIEWS

CONTAMINANTS OF CONCERN	CURRENT LAND USE	BENEFICIAL USE	DISCHARGE SOURCE	DATE REPORTED	STOP METHOD	NEARBY / IMPACTED WELLS
Gasoline		GW - Agricultural Supply, GW - Industrial Process Supply (PROC), GW - Industrial Service Water Supply (IND), GW - Municipal and Domestic Supply, SW - Cold Freshwater Habitat, SW - Industrial Service Supply, SW - Municipal and Domestic Supply, SW - Non-Contact Water Recreation, SW - Warm Freshwater Habitat, SW - Water Contact Recreation, SW - Wildlife Habitat	Tank	3/2/1988	Close and Remove Tank	0

FREE PRODUCT	OTHER CONSTITUENTS	NAME OF WATER SYSTEM	LAST REGULATORY ACTIVITY	LAST ESI UPLOAD	LAST EDF UPLOAD	EXPECTED CLOSURE DATE	MOST RECENT CLOSURE REQUEST
NO	NO	Padre Dam Municipal Water District	8/18/2016	9/1/2016	3/17/2016		3/17/2016

CDPH WELLS WITHIN 1500 FEET OF THIS SITE
NONE

CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)

APN
3823200600

GW BASIN NAME
San Diego River Valley (9-15)

WATERSHED NAME
San Diego - Lower San Diego - Santee (907.12)

COUNTY
San Diego

PUBLIC WATER SYSTEM(S)
- **METROPOLITAN WATER DIST. OF SO. CAL.** - P.O. BOX 54153, LOS ANGELES, CA 90054
- **PADRE DAM MWD** - 9300 Fanita Parkway, SANTEE, CA 92071

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER - HIDE

VIEW ESI SUBMITTALS

FIELD PT NAME	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TBA
MW-1	12/10/2015	ND	58 UG/L	ND	2.3 UG/L	OTHER	2.2 UG/L	44 UG/L
MW-10	12/22/2011	OTHER	ND	ND	ND	OTHER	ND	ND
MW-11	12/30/2013	OTHER	15 UG/L	1.4 UG/L	39 UG/L	OTHER	ND	ND
MW-12	12/31/2013	OTHER	9.6 UG/L	0.5 UG/L	0.8 UG/L	OTHER	9.2 UG/L	ND
MW-13	6/4/2012	OTHER	ND	ND	ND	OTHER	ND	ND
MW-14	12/30/2013	OTHER	1800 UG/L	59 UG/L	1700 UG/L	OTHER	ND	ND

FIELD PT NAME	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TBA
MW-15	12/30/2013	OTHER	350 UG/L	ND	2800 UG/L	OTHER	ND	ND
MW-16	12/31/2013	OTHER	7.2 UG/L	0.5 UG/L	ND	OTHER	5.3 UG/L	37 UG/L
MW-17	6/5/2012	OTHER	ND	ND	ND	OTHER	1.3 UG/L	ND
MW-18	12/10/2015	ND	ND	ND	ND	OTHER	ND	ND
MW-19	12/30/2013	OTHER	360 UG/L	370 UG/L	2900 UG/L	OTHER	ND	ND
MW-2	6/5/2012	OTHER	0.6 UG/L	1.3 UG/L	2.3 UG/L	OTHER	8 UG/L	720 UG/L
MW-3	12/10/2015	29000 UG/L	97 UG/L	ND	14 UG/L	OTHER	28 UG/L	190 UG/L
MW-4	12/31/2013	OTHER	29 UG/L	0.9 UG/L	53 UG/L	OTHER	19 UG/L	ND
MW-6	12/10/2015	270 UG/L	19 UG/L	ND	17 UG/L	OTHER	5.4 UG/L	ND
MW-7	12/10/2015	ND	ND	ND	ND	OTHER	ND	ND
MW-8	6/5/2012	OTHER	ND	ND	4.6 UG/L	OTHER	ND	ND
MW-9	12/31/2013	OTHER	11 UG/L	0.8 UG/L	25 UG/L	OTHER	5 UG/L	ND
MW1	4/26/2002	OTHER	230 UG/L	14 UG/L	36 UG/L	220 UG/L	190 UG/L	
MW2	4/26/2002	OTHER	9.2 UG/L	3.9 UG/L	16 UG/L	17 UG/L	2600 UG/L	500 UG/L
MW3	4/26/2002	OTHER	92 UG/L	ND	56 UG/L	62 UG/L	590 UG/L	ND
MW4	4/26/2002	OTHER	4500 UG/L	150 UG/L	450 UG/L	1900 UG/L	1500 UG/L	ND
MW5	4/26/2002	OTHER	7.3 UG/L	1.7 UG/L	2.8 UG/L	6.8 UG/L	230 UG/L	
MW6	4/26/2002	OTHER	5300 UG/L	1400 UG/L	1200 UG/L	5900 UG/L	850 UG/L	
MW7	4/26/2002	OTHER	3.7 UG/L	1.1 UG/L	4 UG/L	7.9 UG/L	19 UG/L	
MW8	4/26/2002	OTHER	50 UG/L	9.2 UG/L	170 UG/L	210 UG/L	64 UG/L	

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN SOIL - HIDE

VIEW ESI SUBMITTALS

FIELD PT NAME	DATE	TPHg	BENZENE	TOLUENE	ETHYL-BENZENE	XYLENES	MTBE	TBA
MW-10	2/5/2008		ND	ND	ND		13 UG/KG	ND
MW-11	2/8/2008		ND	ND	14 UG/KG		ND	ND
MW-12	2/8/2008		ND	ND	ND		8.3 UG/KG	ND
MW-13-10	2/18/2008		ND	ND	ND		ND	ND
MW-13-15	2/18/2008		ND	ND	ND		ND	ND
MW-13-20	2/18/2008		ND	ND	ND		ND	ND
MW-13-25	2/18/2008		ND	ND	ND		ND	ND
MW-13-30	2/18/2008		ND	ND	ND		ND	ND
MW-13-35	2/18/2008		ND	ND	ND		ND	ND
MW-13-40	2/18/2008		ND	ND	ND		ND	ND
MW-13-45	2/18/2008		ND	ND	ND		ND	ND
MW-13-5	2/18/2008		ND	ND	ND		ND	ND
MW-13-50	2/18/2008		ND	ND	ND		ND	ND
MW-14-10	2/18/2008		ND	ND	ND		ND	ND
MW-14-15	2/18/2008		ND	ND	ND		ND	ND
MW-14-20	2/18/2008		ND	ND	ND		ND	ND
MW-14-25	2/18/2008		ND	ND	ND		ND	ND
MW-14-30	2/18/2008		31.7 UG/KG	ND	61.9 UG/KG		22.5 UG/KG	ND
MW-14-35	2/18/2008		100 UG/KG	ND	143 UG/KG		71.2 UG/KG	ND
MW-14-40	2/18/2008		ND	ND	ND		ND	ND
MW-14-5	2/18/2008		ND	ND	ND		ND	ND
MW-15-10	2/19/2008		ND	ND	ND		ND	ND
MW-15-15	2/19/2008		ND	ND	ND		ND	ND
MW-15-20	2/19/2008		ND	ND	ND		ND	ND
MW-15-25	2/19/2008		ND	ND	ND		ND	ND
MW-15-30	2/19/2008		ND	ND	2.38 UG/KG		ND	ND
MW-15-35	2/19/2008		ND	ND	ND		ND	ND
MW-15-40	2/19/2008		ND	ND	2.58 UG/KG		ND	ND
MW-15-5	2/19/2008		ND	ND	ND		ND	ND
MW-16-10	2/19/2008		ND	ND	ND		ND	ND
MW-16-15	2/19/2008		ND	ND	ND		ND	ND
MW-16-20	2/19/2008		ND	ND	ND		ND	ND
MW-16-25	2/19/2008		ND	ND	ND		ND	ND
MW-16-30	2/19/2008		ND	ND	ND		ND	ND
MW-16-35	2/19/2008		ND	ND	ND		3.02 UG/KG	ND
MW-16-40	2/19/2008		ND	ND	2.7 UG/KG		ND	ND
MW-16-5	2/19/2008		ND	ND	ND		ND	ND
MW-17-10	2/19/2008		ND	ND	ND		ND	ND
MW-17-15	2/19/2008		ND	ND	ND		ND	ND
MW-17-20	2/19/2008		ND	ND	ND		ND	ND
MW-17-25	2/19/2008		ND	ND	ND		ND	ND
MW-17-30	2/19/2008		ND	ND	ND		ND	ND
MW-17-35	2/19/2008		ND	ND	ND		ND	ND
MW-17-38	2/19/2008		ND	ND	ND		ND	ND
MW-17-45	2/19/2008		ND	ND	ND		ND	ND
MW-17-5	2/19/2008		ND	ND	ND		ND	ND
MW-9	2/4/2008		900 UG/KG	1700 UG/KG	320 UG/KG		120 UG/KG	ND

MOST RECENT GEO_WELL DATA - HIDE

VIEW ESI SUBMITTALS

FIELD PT NAME	DATE	DEPTH TO WATER (FT)	SHEEN	DEPTH TO FREE PRODUCT (FT)
MW-1	12/30/2013	30.12	N	
MW-10	12/30/2013	34.07	N	32.42
MW-11	12/30/2013	30.09	N	
MW-12	12/30/2013	29.71	N	
MW-13	12/30/2013	33.65	N	32.95
MW-14	12/30/2013	30.32	N	
MW-15	12/30/2013	29.95	N	
MW-16	12/30/2013	30.27	N	
MW-17	12/30/2013	35.63	N	35.18
MW-18	12/30/2013	30.5	N	
MW-19	12/30/2013	33.08	N	
MW-2	12/30/2013	32.74	N	31.41
MW-3	12/30/2013	34.14	N	30.81
MW-4	12/30/2013	29.42	N	
MW-5	5/8/2008	30.35	N	
MW-6	12/30/2013	29.68	N	
MW-7	12/30/2013	29.3	N	
MW-8	6/4/2012	30.85	N	
MW-9	12/30/2013	29.69	N	

County of San Diego

ELISE ROTHSCHILD
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
Phone: (858) 505-6700 or (800) 253-9933 Fax: (858) 514-6583
www.sdcdeh.org

AMY HARBERT
ASSISTANT DIRECTOR

August 18, 2016

Mr. George J. Adrian
City of San Diego, Public Utilities Department
525 B Street, Suite 300, MS 906
San Diego, CA 92101-4409

Dear Mr. Adrian:

RESPONSE TO COMMENTS ON PROPOSED CASE CLOSURE
UNAUTHORIZED RELEASE CASE H19469-001
EL CAPITAN OIL COMPANY
11427 WOODSIDE AVENUE, SANTEE, CA

The County of San Diego, Department of Environmental Health, Site Assessment and Mitigation Program (SAM) staff received the City of San Diego's (City) letter, dated July 8, 2016. The letter expresses the City's concerns regarding the proposed closure of Unauthorized Release Case H19469-001 located at 11427Woodside Avenue in Santee.

The following are the four concerns you presented in your letter. Following each concern is the DEH response:

1. The City is presently assessing the development potential of all of its groundwater resources. The City reserves its right to consider and/or develop any and all available groundwater resources, including, but not limited to groundwater that may be available for extraction at any City property, including the property in the vicinity of the subject Site. As a consequence, no activity should be performed and/or approved on the subject Site that would jeopardize the City's ability to develop groundwater resources near the subject Site.

   ***Response #1**: DEH acknowledges the City's rights and concerns regarding groundwater development in the vicinity of the subject Site, and has forwarded your letter to the environmental consultant for the responsible parties. It should be noted that closure of this case does not relieve the responsible parties of potential liability for impacts from residual contamination.*

2. The Site is located just outside the San Diego River Groundwater Basin (Basin). The City owns parcels northeast of the contaminated Site in the Basin and has concerns regarding contaminant levels. The City is currently assessing the feasibility of pumping groundwater for potable use from the Riverview well field near the City parcels. Groundwater from the Basin is a potential supply for potable water use.

   Response #2: Based upon the distance from the well field to the Site (approximately 4,300 feet), and direction from the Site to the well field with respect to the interpreted shallow groundwater

flow direction (upgradient), it is unlikely the Riverview well field would be impacted by the gasoline release.

3. The general groundwater flow from the Site is westward towards the Basin and the San Diego River. The City has pueblo rights to the San Diego River and has concerns with the contamination from the Site.

   Response #3: Based upon the distance from the San Diego River to the Site (approximately 800 feet), it is unlikely that the San Diego River would be impacted by the gasoline release.

4. Well MW-14 shows high levels of TPHg and TPHd from the December 30, 2013 samples. Well MW-15 also had high levels of TPHg, TPHd, Ethylbenzene, and Xylenes from the December 20, 2013 samples.

   Response #4: DEH concurs that high contaminant levels remain in groundwater monitoring wells MW-14 and MW-15; however the groundwater flow direction to the west-southwest indicates that the groundwater is flowing beneath Highway 67 and that groundwater concentrations would attenuate prior to reaching sensitive receptors.SCS Engineers estimates that benzene and MTBE concentrations will attenuate to their respective maximum contaminant levels (MCLs) by July 2056 and April 2033, respectively.

The City of San Diego stated that "because of the Site's proximity to the San Diego River Groundwater Basin and San Diego River, and the high levels of contaminants as stated in item #4 above, the City, in contrast to the SCS Engineers *Groundwater Monitoring Report - Third and Fourth Quarter 2015 and Request for Closure,* recommends that the monitoring wells not be destroyed, but remain in place for additional water quality analyses until all dissolved phase hydrocarbons have been reduced substantially."

Based on the information submitted, DEH will proceed with case closure of Unauthorized Release Case H19469-001. Several groundwater monitoring wells will be maintained on Site for monitoring and sampling purposes for Voluntary Assistance Program Case H19469-005 (diesel fuel release). The remaining groundwater monitoring wells will be destroyed in accordance with the State's Low-Threat Underground Storage Tank Case Closure Policy. If you have any questions, please contact James Clay at 858-505-6969.

Sincerely,

James Clay

Digitally signed by James Clay
DN: cn=James Clay, o=Department of Environmental Health, ou=County of San Diego, email=james.clay@sdcounty.ca.gov, c=US
Date: 2016.08.18 11:43:23 -07'00'

JAMES CLAY, Environmental Health Specialist III
Site Assessment and Mitigation Program

cc: Mr. Chuck Houser, SCS Engineers (by email)

THE CITY OF SAN DIEGO

July 8, 2016

Mr. James Clay
County of San Diego
Department of Environmental Health
P.O. Box 129261
San Diego, CA 92112-9261

Dear Mr. Clay:

The City of San Diego (City) has reviewed the Corrective Action Plan (CAP), and Groundwater Monitoring Report, Third and Fourth Quarter 2015, and Request for Closure, 11427 Woodside Avenue, and offers the following:

1. The City of San Diego (City) is presently assessing the development potential of all of its groundwater resources. The City reserves its right to consider and/or develop any and all available groundwater resources, including, but not limited to groundwater that may be available for extraction at any City property, including the property in the vicinity of the subject site. As a consequence, no activity should be performed and/or approved on the subject site that would jeopardize the City's ability to develop groundwater resources near the subject site.
2. The site is located just outside the San Diego River Groundwater Basin (Basin). The City owns parcels northeast of the contaminated site in the Basin and has concerns regarding contaminant levels. The City is currently assessing the feasibility of pumping groundwater for potable use from the Riverview well field near the City parcels. Groundwater from the Basin is a potential supply for potable water use.
3. The general groundwater flow from the site is westward towards the Basin and the San Diego River. The City has pueblo rights to the San Diego River and has concerns with the contamination from the site.
4. Well MW-14 shows high levels of TPHg and TPHd from the 12/30/13 samples. Well MW-15 also had high levels of TPHg, TPHd, Ethylbenzene, and Xylenes from the 12/20/13 samples.

Because of the site's proximity to the San Diego River Groundwater Basin and San Diego River, and the high levels of contaminants as stated in item #4 above, the City, in contrast to the SCS Engineers *Groundwater Monitoring Report – Third and Fourth Quarter 2015 and Request for Closure*, recommends that the monitoring wells not be destroyed, but remain in place for additional water quality analyses until all dissolved phase hydrocarbons have been reduced substantially.

Public Utilities Department
525 B Street, Suite 300, MS 906 • San Diego, CA 92101-4409
Tel (619) 533-7595

Thank you for allowing the City to review the document. If you have any questions, please feel free to contact me at (619) 533-4680, or Antero Penaflor at (619) 533-4224.

Sincerely,

George J. Adrian
Program Manager, Public Utilities Department
Long-Range Planning & Water Resources Division

GA/ap

cc: Lan C. Wiborg, Deputy Director, Public Utilities Department, Long-Range Planning & Water Resources Division

RMS 6.2

From: Clay, James
To: chouser@scsengineers.com
Subject: FW: SAM Case No. H19469-001: 11427 Woodside Ave
Date: Tuesday, July 26, 2016 1:43:16 PM
Attachments: City Comments to SAM Case No. H19469-001.pdf
Letter from SCS Engineering-SAM Case No. H19469-001.pdf

Hi Chuck,

I hope you're keeping well. Attached is a response letter I received from the City of San Diego. DEH will address the first three issues of the letter; however the fourth issue requires a response from the PG for the case. Please send your response to me and I will respond to the City.

Thanks for your help,

James

James G. Clay
Environmental Health Specialist III
Site Assessment and Mitigation Program
Land and Water Quality Division
Department of Environmental Health
County of San Diego
Phone: 858-505-6969
james.clay@sdcounty.ca.gov

From: Penaflor, Antero [mailto:APenaflor@sandiego.gov]
Sent: Friday, July 08, 2016 4:38 PM
To: Clay, James
Cc: Wiborg, Lan; Adrian, George; Abutin, Larry
Subject: SAM Case No. H19469-001: 11427 Woodside Ave

Dear Mr. Clay,

The City of San Diego has reviewed the Corrective Action Plan (CAP) and Groundwater Monitoring Report, Third and Fourth Quarter 2015 and Request for Closure for the subject case. Please find attached the City's comments to the reports. The original letter will follow via U.S. Mail. A copy of the CAP notification letter from SCS Engineers is also attached for your reference.

Thank you for allowing the City to provide comments to the reports. Please feel free to contact us if you have any questions.

Thank you,

Antero Peñaflor
Assistant Engineer-Civil

City of San Diego
Public Utilities Department

T (619) 533-4224
sandiego.gov

CONFIDENTIAL COMMUNICATION
This electronic mail message and any attachments are intended only for the use of the addressee(s) named above and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you are not an intended recipient, or the employee or agent responsible for delivering this e-mail to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you received this e-mail message in error, please immediately notify the sender by replying to this message or by telephone. Thank you.

Senaha, Jon

From: Senaha, Jon
Sent: Wednesday, June 1, 2016 11:46 AM
To: 'WLF@lamesalaw.com'; 'matt@dionandsons.com'
Cc: Clay, James
Subject: Change in Responsibility for Monitoring Wells

Hello William and Matt,

The County of San Diego, Department of Environmental Health received and acknowledges your request to transfer responsibility of monitoring well maintenance from Wigington Petroleum, Inc. to M.O. Dion & Son's, Inc.

- Case Number: H19469
- Site Address: 11427 Woodside Avenue, Santee 92071
- Site APN: 382-320-06
- Monitoring wells of concern: MW1, MW2, MW3, MW4, MW7, MW10, MW13, MW14, MW17, and DSMW1 through DSMW7.

I will upload this email and the signed request form to Geotracker.

Please retain this email for your records.

Regards,
Jon

Jon Senaha
Environmental Health Specialist
County of San Diego
Monitoring Well Program
858-505-6798

Environmental Consultants
and Contractors

8799 Balboa Avenue
Suite 290
San Diego, CA 92123

858 571-5500
FAX 858-571-5357
www.scsengineers.com

SCS ENGINEERS

May 20, 2016
Project No. 01211251.00

Mr. James Clay
Environmental Health Specialist III
Site Assessment and Mitigation Program
Department of Environmental Health
P.O. Box 129261, MS 0560
San Diego, CA 92112-9261

Subject: **Public Notification**

Site: **11427 Woodside Avenue**
Santee, California

DEH Case #: H19469-001

Dear Mr. Clay,

NOTIFICATION OF PUBLIC NOTICE
FORMER LEAKING UNDERGROUND STORAGE TANKS
EL CAPITAN OIL COMPANY, 11427 WOODSIDE AVENUE, SANTEE, CA

This letter is to notify you that the public notices for Wigington Petroleum, Inc. have been delivered. Public notification letters for off-Site property owners were mailed with return receipt via United States Postal Service First Class Mail on May 18, 2015, and public notification letters for the Site tenant and adjacent facilities were hand delivered on May 19, 2016. The public notice period will start on May 23, 2016 and extend through July 23, 2016. Copies of the *Corrective Action Plan, 11427 Woodside Avenue, Santee, California,* and the *Groundwater Monitoring Report, Third and Fourth Quarter 2015, and Request for Closure, 11427 Woodside Avenue, Santee, California* have been dropped off at the DEH and the Santee Branch Library for public review.

A sample notification letter and the list of recipients of the public notice are enclosed for your records.

Please do not hesitate to call our office at (858) 571-5500 with any questions.

Sincerely,

Alissa Barrow
Staff Engineer
SCS ENGINEERS

Chuck Houser, CHg 945
Project Manager
SCS ENGINEERS

AB

Enclosures

PROPOSED RECIPIENTS OF PUBLIC NOTICE
WIGINGTON OIL
11427 WOODSIDE AVENUE, SANTEE, CALIFORNIA

Name/Agency	Relation to Site	Owner or Tenant?	APN	Physical Address	Mailing Address
Wigington Petroleum, Inc., c/o William Fischbeck, Esq.	Responsible Party	N/A	N/A	5464 Grossmont Center Drive Third Floor La Mesa, CA 91942	5464 Grossmont Center Drive Third Floor La Mesa, CA 91942
Dion and Sons	Site Tenant	Tenant	382-320-06	11427 Woodside Avenue Santee, CA 92071	1543 West 16th Street Long Beach, CA 90813
RMMC Land Company	Site Owner	Owner	382-320-06	1543 West 16th Street Long Beach, CA 90813	1543 West 16th Street Long Beach, CA 90813
Hattie Davisson Properties, LP	Northeast-adjacent	Owner	381-170-57	11510 Woodside Avenue Lakeside, CA 92040	5755 Amarillo Avenue La Mesa, CA 91942
Ranch House Restaurant	Northeast-adjacent	Tenant	381-170-57	11510 Woodside Avenue, Suite F Lakeside, CA 92040	11510 Woodside Ave, Suite F Lakeside, CA 92040
Pacific Manufactured Homes	Northeast-adjacent	Tenant	381-170-57	11510 Woodside Avenue, Suite C Lakeside, CA 92040	11510 Woodside Avenue, Suite C Lakeside, CA 92040
Holland RV Center	Northeast-adjacent	Tenant	381-170-57	11510 Woodside Ave, Suite H Lakeside, CA 92040	11510 Woodside Ave, Suite H Lakeside, CA 92040
Robert F. Wiggins	Northeast-adjacent	Tenant	381-170-57	11510 Woodside Ave, Suite L Lakeside, CA 92040	11510 Woodside Ave, Suite L Lakeside, CA 92040
Asbury James & Judith Living Trust	East-adjacent	Owner	382-320-05	11433 Woodside Avenue Santee, CA 92071	1900 Weld Blvd #100 El Cajon, CA 92020
International Auto Logistics, LLC	East-adjacent	Tenant	382-320-05	11433 Woodside Avenue Santee, CA 92071	11433 Woodside Avenue Santee, CA 92071
11421/23 Woodside LLC	Southeast-adjacent	Owner	382-320-41 382-320-40 382-320-39	11425 Woodside Avenue Santee, CA 92071	P.O. Box 124964 San Diego, CA 92112
JC Cable Co., Inc.	Southeast-adjacent	Tenant	382-320-41	11425 Woodside Avenue, Suite A Santee, CA 92071	11425 Woodside Avenue, Suite A Santee, CA 92071
Anthony Lauren Furniture	Southeast-adjacent	Tenant	382-320-41	11425 Woodside Avenue, Suite B Santee, CA 92071	11425 Woodside Avenue, Suite B Santee, CA 92071

PROPOSED RECIPIENTS OF PUBLIC NOTICE
WIGINGTON OIL
11427 WOODSIDE AVENUE, SANTEE, CALIFORNIA

Name/Agency	Relation to Site	Owner or Tenant?	APN	Physical Address	Mailing Address
Cecil's Vending	South-adjacent	Tenant	382-320-40	11423 Woodside Avenue, Suite A Santee, CA 92071	11425 Woodside Avenue, Suite A Santee, CA 92071
Buggy Works	South-adjacent	Tenant	382-320-40	11423 Woodside Avenue, Suite B Santee, CA 92071	11425 Woodside Avenue, Suite B Santee, CA 92071
CT3 Machining	South-adjacent	Tenant	382-320-40	11423 Woodside Avenue, Suite C Santee, CA 92071	11425 Woodside Avenue, Suite C Santee, CA 92071
Cabinet Shop at 11425 Woodside Avenue, Suite E	South-adjacent	Tenant	382-320-40	11423 Woodside Avenue, Suite E Santee, CA 92071	11425 Woodside Avenue, Suite E Santee, CA 92071
Ably Vending	South-adjacent	Tenant	382-320-40	11423 Woodside Avenue, Suite F Santee, CA 92071	11425 Woodside Avenue, Suite F Santee, CA 92071
Fine Line	Southwest-adjacent	Tenant	382-320-39	11421 Woodside Avenue, Suite A Santee, CA 92071	11421 Woodside Avenue, Suite A Santee, CA 92071
Imported Motor Cars	Southwest-adjacent	Tenant	382-320-39	11421 Woodside Avenue, Suite B Santee, CA 92071	11421 Woodside Avenue, Suite B Santee, CA 92071
JP Designs	Southwest-adjacent	Tenant	382-320-39	11421 Woodside Avenue, Suite C Santee, CA 92071	11421 Woodside Avenue, Suite C Santee, CA 92071
Alvarez Tire	Southwest-adjacent	Tenant	382-320-39	11421 Woodside Avenue, Suite D Santee, CA 92071	11421 Woodside Avenue, Suite D Santee, CA 92071
San Diego County Water Authority	County Water District	N/A	N/A	4677 Overland Avenue San Diego, CA 92123	4677 Overland Avenue San Diego, CA 92123
Padre Dam Municipal Water District	Municipal Water District	N/A	N/A	9300 Fanita Parkway Santee, CA 92071	P.O. Box 719003 Santee, CA 92072
City of Santee Planning Dept. ATTN: Melanie Kush, Planning Director	Local Planning Agency	N/A	N/A	10601 Magnolia Avenue Santee, CA 92071	Santee City Hall, Building 4 ATTN: Melanie Kush 10601 Magnolia Avenue Santee, CA 92071
City of San Diego Public Utilities Department	Pueblo Water Rights	N/A	N/A	525 B Street, Suite 300 San Diego, CA 92101	525 B Street, Suite 300, MS 906 San Diego, CA 92101

Environmental Consultants
and Contractors

8799 Balboa Avenue
Suite 290
San Diego, CA 92123

858 571-5500
FAX 858-571-5357
www.scsengineers.com

SCS ENGINEERS

May 18, 2016
Project No. 01208473.00

Dion and Sons
c/o Mr. Matt Cullen
1543 West 16th Street
Long Beach, CA 90813

Subject: **Public Notification**

Site: **11427 Woodside Avenue**
Santee, California

Dear Mr. Cullen,

MITIGATION OF ENVIRONMENTAL CONTAMINATION
FORMER LEAKING UNDERGROUND STORAGE TANKS
EL CAPITAN OIL COMPANY, 11427 WOODSIDE AVENUE, SANTEE, CA

Wigington Petroleum, Inc. and its consultant, SCS Engineers, have been advised by the County of San Diego, Department of Environmental Health (DEH), Site Assessment and Mitigation Program (SAM), that it intends to close the above-referenced unauthorized release case.

According to the Low-Threat Closure Policy, petroleum hydrocarbon constituents in soil and groundwater that result from the unauthorized release(s) may be left in place to degrade by natural processes (collectively known as remediation by natural attenuation [RNA]), if the constituent concentrations do not pose a human health risk or adversely impact the beneficial uses of surface and/or groundwater. Based on the results from the third and fourth quarter 2015 groundwater monitoring and sampling events, RNA is occurring at the Site, thus the objective presented in the previously submitted and approved Corrective Action Plan (CAP) has been met.

This notice is to advise you that documents supporting the closure of the above-referenced cases are available for public review, and that DEH is accepting public comments on the plan from May 23, 2016, through July 23, 2016. The following reports prepared by SCS provide the information supporting the proposed case closures:

- *Corrective Action Plan, 11427 Woodside Avenue, Santee, California,*
- *Groundwater Monitoring Report, Third and Fourth Quarter 2015, and Request for Closure, 11427 Woodside Avenue, Santee, California.*

You may review copies of the public review documents for 11427 Woodside Avenue, California, SAM Case Number H19469-001, at the Santee Branch Library (9225 Carlton Hills Boulevard

#17, Santee, California 92071), at the offices of the County DEH (5500 Overland Avenue, Suite 110, San Diego, California, 92123), or on-line at http://www.geotracker.swrcb.ca.gov. Written comments on the proposed case closures may be directed to Mr. James Clay by email at james.clay@sdcounty.ca.gov, or by mail to the County of San Diego DEH, P.O. Box 129261, MS 0560, San Diego, CA 92112-9261. Comments must be received by July 23, 2016.

Questions regarding the contents of the public review documents should be directed to one of the following:

1) Mr. William Fischbeck, Esq., Fischbeck and Oberndorfer, 619-464-1200

2), Chuck Houser, SCS Engineers - Project Manager, 858-571-5500 ext. 245

3) James Clay, DEH, 858-505-6969

Sincerely,

Alissa Barrow
Project Professional
SCS ENGINEERS

Chuck Houser, CHg 945
Project Manager
SCS ENGINEERS

FISCHBECK & OBERNDORFER
A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW
5464 GROSSMONT CENTER DRIVE
THIRD FLOOR
LA MESA, CALIFORNIA 91942
TELEPHONE (619) 464-1200

WILLIAM L. FISCHBECK
E-MAIL: wlf@lamesalaw.com

WEBSITE: www.LaMesaLaw.com
FAX: (619) 464-6471

RECEIVED
2016 MAY 16 AM 8:25
ENVIRONMENTAL
HEALTH

May 13, 2016

County of San Diego
Department of Environment Health
Land and Water Quality Division
PO BOX 129261
San Diego, CA 92112-9261

Re: Owner: RMMC Land Company, LLC
Claimant: Wigington Petroleum, Inc. Remediation
Property: 11427 Woodside Ave., Santee, CA 92071
DEH: #H19469-001
State Claim: #000912 Region: 9 Priority: C

Dear Sir/Madam:

Enclosed is the original County Change in Responsibility for Monitoring Well Maintenance agreement executed by all the parties for the above referenced matter.

Sincerely,

Amy Snyder, Legal Assistant to
William L. Fischbeck

/ajs
Enclosure

cc: Wigington Petroleum, Inc.
SCS Engineers

Wigington/Remediation/SCS/County 5-13-16

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
Phone: (858) 505-6789 or (800) 253-9933 Fax: (858) 505-6786
www.sdcdeh.org

AMY HARBERT
ASSISTANT DIRECTOR

CHANGE IN RESPONSIBILITY FOR MONITORING WELL MAINTENANCE

Monitoring Well(s) to be transferred: See Attachment 1

Property Address:
11427 Woodside Avenue
Santee, California 92071

Assessor's Parcel Number (APN):
382-320-06-00

The person who causes to have a monitoring well installed or an existing well destroyed on this property is defined as the *Responsible Party*. San Diego County Code, Section 67.424, states that: "Monitoring wells shall be maintained to meet construction or destruction standards. If a monitoring well does not meet construction or destruction standards, the *Responsible Party* must repair, reconstruct or destroy the monitoring well so it meets the standards. The property owner, if different than the *Responsible Party*, must take the necessary actions to repair, reconstruct or destroy the monitoring well so it meets the standards if the *Responsible Party* does not complete the necessary actions."

I, Wigington Petroleum, Inc the former Responsible Party for monitoring wells see Attachment 1 transfer responsibility of these wells to M.O. Dion & Sons, Inc. ~~and RMTC Land Company, LLC~~ WF (new Responsible Party).

I, M.O. Dion+Sons, Inc, the current Responsible Party for the wells, will maintain these wells until such a time that they are no longer needed for site assessment or remediation purposes. At that time, I will have the wells properly destroyed by permit through the County of San Diego, Site Assessment and Mitigation Program.

Former Responsible Party Signature: _____ Date: April 29, 2016

Print Name: William L. Fischbeck Title: Attorney

Address: 5464 Grossmont Center D., 3rd. Flr., La Mesa, CA 91942

Email Address: wlf@lamesalaw.com Phone #: 619.464.1200

Company: Wigington Petroleum, Inc.

Change in Responsibility for Monitoring Well Maintenance
Page 2

Current Responsible Party Signature: Matt Callen Date: 5/3/16

Print Name: Matt Callen Title: President

Address: 1543 W. 16th Street, Long Beach, CA 90813

Email Address: matt@dionandsons.com Phone #: 562-432-3946

Company: M.O. Dion & Sons, Inc.

Current Property Owner: Matt Callen Date: 5/3/16

Print Name: Matt Callen Title: President

Address: 1543 W. 16th Street, Long Beach CA 90813

Email Address: matt@dionandsons.com Phone #: 562-432-3946

Company: RMMC Land Company LLC

ATTACHMENT 1

CHANGE IN RESPONSIBILITY
FOR MONITORING WELL MAINTENANCE

Re: Property: 11427 Woodside Ave., Santee, CA 92071
DEH: #H19469-001

WELLS: 90446 99281 105428

"MW1, MW2, MW3, MW4, MW7, MW10, MW13, MW14, MW17 and DSMW1, DSMW2, DSMW3, DSMW4, DSMW5, DSMW6, DSMW7"

001483

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
Phone: (858) 505-6700 or (800) 253-9933 Fax: (858) 505-6786
www.sdcdeh.org

AMY HARBERT
ASSISTANT DIRECTOR

April 7, 2016

Ms. Linda Wigington
Wigington Petroleum Inc.
P.O. Box 2504
Spring Valley, CA 91979

Mr. Bill Frank
Amber Resources
1635 W. Gaylord Street
Long Beach, CA 90813

Dear Responsible Parties:

CONDITIONAL CONCURRENCE OF CORRECTIVE ACTION PLAN
UNAUTHORIZED RELEASE CASE H19469-001
EL CAPITAN OIL COMPANY
11427 WOODSIDE AVENUE, SANTEE, CA

This letter has been prepared in accordance with the requirements set forth in Title 23 (State Underground Storage Tank Regulations), Division 3, Chapter 16, Article 11. The purpose of this letter is to notify you of the status of the Corrective Action Plan (CAP) received by the County of San Diego, Department of Environmental Health (DEH), Site Assessment and Mitigation Program (SAM).

The March 30, 2015 *CAP* and the March 17, 2016 *Groundwater Monitoring Report Third and Fourth Quarter 2015 and Request for Closure*, prepared by SCS Engineers, were reviewed by DEH. Monitored natural attenuation was selected as the most cost-effective and technically feasible strategy for the Site.

DEH concurs with SCS Engineers' selection; however final written concurrence and approval to implement the CAP can only be granted after a public participation process has been completed.

You are to send a public notice to other record owners of fee title for this site and property owners and occupants of adjacent properties. Additionally, you must notify others in the vicinity, other interested parties, such as the local water district and the City of San Diego, of potential impacts from the site activities. The public notice is to describe the proposed CAP and invite interested parties to review the CAP at a local public library, on-line at http://www.geotracker.swrcb.ca.gov/, or at the offices of SAM. The public participation process must provide a minimum 60-day period for the public to review the CAP and to comment directly to SAM.

Prior to initiating the public notice period, provide for approval to the undersigned: a copy of the notice, an updated list of record owners of fee title (unless there are no changes to the original list), a list of persons to be notified including the owners of fee title, and an additional copy of the CAP for public review at our office. Upon approval from this office, you may distribute the public notices. You must notify this office, in writing, when the Public Participation process has begun and provide proof of service of the public notice.

Keep this letter for your records as it may be required for corrective action cost reimbursement from the California Underground Storage Tank Cleanup Fund.

If you have any questions, please call me at (858) 505-6969.

Sincerely,

James Clay

Digitally signed by James Clay
DN: cn=James Clay, o=Department of Environmental Health, ou=County of San Diego, email=james.clay@sdcounty.ca.gov, c=US
Date: 2016.04.07 07:17:26 -07'00'

JAMES CLAY, Environmental Health Specialist III
Site Assessment and Mitigation Program

cc: Mr. Chuck Houser, SCS Engineers (by email)

From: Clay, James
To: "Houser, Chuck"
Cc: William Fischbeck (WLF@lamesalaw.com)
Subject: RE: H19469-001 - Response to CAP
Date: Wednesday, April 29, 2015 10:28:00 AM

Hi Chuck,

Thanks for your response and the information about well MW-5. Please sample quarterly, for two quarters, the following wells for TPHg & d, BTEX, Oxygenates, and RNA parameters (from Table 7-1 of the SAM Manual):

MW-18 – Down Gradient
MW-1, MW-3, and MW-6 – Source Area (for MW-3 – drop a bailer through the product to collect a water sample)
MW-7 – Upgradient

Take care,

James

James G. Clay
Environmental Health Specialist III
Site Assessment and Mitigation Program
Land and Water Quality Division
Department of Environmental Health
County of San Diego
Phone: 858-505-6969
james.clay@sdcounty.ca.gov

From: Houser, Chuck [mailto:CHouser@scsengineers.com]
Sent: Friday, April 24, 2015 10:33 AM
To: Clay, James
Cc: William Fischbeck (WLF@lamesalaw.com)
Subject: RE: H19469-001 - Response to CAP

James,

We appreciate your timely review of the CAP for the project. Your letter requests additional sampling for RNA parameters and references several wells (MW-1, MW-3, and MW-5) you ask be sampled in addition to MW-18 (down gradient), MW-6 and MW-14 (source area), and MW-7 (upgradient). Adding well MW-1 as a source area well is agreeable and we will include it in the

sampling program. MW-5 was the apparent old production well located inside the building and it was destroyed by Petra 5 or 6 years ago.

Well MW-3 is within the red-dyed diesel fuel plume from Dion & Sons and in the last reported monitoring (January 9, 2015) was reported to have 1.9 feet of free product diesel fuel. You suggested that a sample could be obtained from below the free product. While we generally agree, there are a couple of things to consider. First, two methods we discussed have certain challenges or disadvantages. Using a pump would require dedicating the pump to the well as once a pump is exposed to free product, it cannot be used in other wells or other sites. However, a bailer could be dropped through the product to collect a sample of the water below, or a "bomb" type sampler could be used. In any case it seems that no-purge sampling would be the only option.

Second, in reviewing the RNA parameters in Table 7-1 of the SAM Manual, a couple of things come to mind. Dissolved oxygen is one of the stronger indicators of RNA. Wells MW-1, MW-6, and MW-19 have historically had relatively high dissolved petroleum hydrocarbon concentrations. Based on soil data from borings B1, B3, and B4, and well MW-19, we suspect that petroleum hydrocarbons have migrated in soil along the water table to the west-southwest from the site. Therefore, Wells MW-1, MW-6, MW-9, MW-14, and MW-19 could be considered "source area" wells since they are within this soil plume along the water table. We also know that among the 13 or so USTs that were reportedly present at the Site, there was a group of USTs reportedly located near the southwest end of the Site building near MW-1.

If we were to sample wells MW-1, MW-6, and MW-19 as "source area" wells, I believe this would give us an acceptable representation of RNA conditions in the source area. We could sample MW-3, but the sampling would be problematic, though doable, and the result may add little to our overall analysis of whether RNA is occurring. In short, I would expect the RNA parameters under a free product plume to be consistent with RNA (low DO, high CO2, low/negative Eh). The non-free product source area wells (MW-1, MW-6, and MW-19) would, if consistent with RNA, provide a better justification that RNA is occurring. Similarly, if wells MW-1, MW-6, and MW-19 were not consistent with expected source area RNA results, then any result from MW-3 would be considered dubious.

My recommendation would be to sample, quarterly for two quarters, the following wells for TPHg&d, BTEX, Oxygenates, and RNA parameters (from Table 7-1 of the SAM manual):

MW-18 – Down Gradient
MW-1, MW-6, and MW-19 – Source Area
MW-7 – Upgradient

I would drop MW-14 in favor of MW-19 since soil concentrations were significantly higher in MW-19. We will provide a separate monitoring report for each sampling event.

If after the first quarterly sampling the RNA analysis is not consistent with my analysis of source area vs. up- and down-gradient well conditions, we can re-evaluate whether MW-3 should be part of the sampling. Thanks and let me know if you have any questions or need to discuss further.

Chuck Houser, CHg
Project Manager
SCS Engineers
O. 858-571-5500 Ext. 245
M. 858-805-5523
chouser@scsengineers.com

From: Clay, James [mailto:James.Clay@sdcounty.ca.gov]
Sent: Friday, April 24, 2015 7:20 AM
To: Houser, Chuck
Subject: H19469-001 - Response to CAP

Hi Chuck,

Attached is the CAP response for the above case. Please let me know if you have any questions.

Thanks,

James

James G. Clay
Environmental Health Specialist III
Site Assessment and Mitigation Program
Land and Water Quality Division
Department of Environmental Health
County of San Diego
Phone: 858-505-6969
james.clay@sdcounty.ca.gov

County of San Diego

ELIZABETH A. POZZEBON
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
Phone: (858) 505-6700 or (800) 253-9933 Fax: (858) 505-6786
www.sdcdeh.org

AMY HARBERT
ASSISTANT DIRECTOR

April 24, 2015

Mr. Matt Cullen
RMMC Land Company, LLC
1543 W. 16th Street
Long Beach, CA 90813

Ms. Linda Wigington
Wigington Petroleum Inc.
P.O. Box 2504
Spring Valley, CA 91979

Dear Responsible Parties:

UNAUTHORIZED RELEASE CASE H19469-001
EL CAPITAN OIL COMPANY
11427 WOODSIDE AVENUE, SANTEE, CA

Staff of the Department of Environmental Health (DEH) reviewed the March 30, 2015 *Corrective Action Plan*, prepared by SCS.

For the selected remedial alternative, SCS has chosen monitored natural attenuation as the most cost-effective and technically feasible strategy for the Site. Should monitored natural attenuation prove inadequate to achieve Site cleanup goals, then the second remedial option, high-vacuum dual-phase extraction and monitored natural attenuation, would be implemented.

To evaluate the applicability of using remediation by natural attenuation, the Site must be adequately assessed and groundwater monitoring locations must include an up-gradient monitoring point (MW-7), two or more monitoring points within the plume (MW-6 and MW-14) and a downgradient monitoring point (MW-18). In addition to analyzing groundwater samples from all wells for TPH, BTEX, MTBE, and oxygenates, groundwater samples from selected wells will be analyzed for natural attenuation parameters. Groundwater samples from upgradient well MW-7, source area wells MW-6 and MW-14, and downgradient well MW-18 will be analyzed for these parameters. The purpose of this analysis will be to evaluate whether natural attenuation is occurring at the Site.

Prior to concurring with the CAP, DEH requires implementation of the feasibility study to evaluate whether natural attenuation is occurring at the Site. Following two quarters of groundwater monitoring, conclusions and recommendations must be made whether natural attenuation is occurring at the Site. Please add groundwater wells MW-1, MW-3 and MW-5 in the source area to the evaluation. If you have any questions, please call me at (858) 505-6969.

Sincerely,

James Clay

Digitally signed by James Clay
DN: cn=James Clay, o=Department of Environmental Health, ou=County of San Diego, email=james.clay@sdcounty.ca.gov, c=US
Date: 2015.04.24 06:58:53 -07'00'

JAMES CLAY, Environmental Health Specialist III
Site Assessment and Mitigation Program

cc: Mr. Chuck Houser, SCS (by email)

From: Clay, James
To: "Houser, Chuck"
Subject: RE: Wigington CAP
Date: Wednesday, February 25, 2015 12:46:00 PM

Hi Chuck,

Thanks for the update.

James

James G. Clay
Environmental Health Specialist III
Site Assessment and Mitigation Program
Land and Water Quality Division
Department of Environmental Health
County of San Diego
Phone: 858-505-6969
james.clay@sdcounty.ca.gov

From: Houser, Chuck [mailto:CHouser@scsengineers.com]
Sent: Monday, February 23, 2015 11:23 AM
To: Clay, James
Subject: Wigington CAP

James,

The CAP is done and in our internal review process. It will be out by the end of next week.

Chuck Houser, CHg
Project Manager
SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego, CA 92123
O. 858-571-5500 Ext. 245
M. 858-805-5523
F. 858-571-5357
chouser@scsengineers.com

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A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW
5464 GROSSMONT CENTER DRIVE
THIRD FLOOR
LA MESA, CALIFORNIA 91942
TELEPHONE (619) 464-1200

WILLIAM L. FISCHBECK
E-MAIL: wlf@lamesalaw.com

WEBSITE: www.LaMesaLaw.com
FAX: (619) 464-6471

December 4, 2014

RECEIVED
DEC 8 2014
ENVIRONMENTAL HEALTH

County of San Diego
Department of Environment Health
Land and Water Quality Division
ATTN: James Clay
PO BOX 129261
San Diego, CA 92112-9261

Re: Case No.: H19469-001
Responsible Party: Wigington Petroleum, Inc.
Property: 11427 Woodside Ave., Santee, CA

Dear Mr. Clay:

This office represents Wigington Petroleum, Inc. in the above referenced matter. Please be advised that Wigington Petroleum, Inc. has sold the above property on December 1, 2014 and the new owner is as follows:

RMMC Land Company, LLC, a California limited liability company
Matt Cullen, President
1543 W. 16th Street
Long Beach, California 90813

Please add this information to your files. Thank you.

Very truly yours,

William L. Fischbeck

WLF:ajs
cc: SCS Engineers
Wigington Petroleum, Inc.

Remediation/SCS/County 12-4-14

JACK MILLER
DIRECTOR

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
858-505-6700/1-800-253-9933
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

December 11, 2013

Ms. Linda Wigington
c/o Mr. William Fischbeck
Fischbeck & Oberndorfer
5464 Grossmont Center Drive, Third Floor
La Mesa, CA 91942

Dear Ms. Wigington:

UNAUTHORIZED RELEASE CASE #H19469-001
WIGINGTON PETROLEUM.
11427 WOODSIDE AVENUE, SANTEE, CA

Staff of the Department of Environmental Health (DEH) has reviewed the files for the above case. Based on current contaminant trends in groundwater, DEH staff is eliminating the requirement for the cross-gradient well/boring proposed in the May 18, 2012 *Workplan for Additional Site Assessment*.

DEH concludes that soil and groundwater assessment for the above unauthorized release has been adequately completed. Within 120 days from the date of this letter, submit a Corrective Action Plan (CAP). Groundwater sampling has not been completed since the Second Quarter 2012. Prior to submittal of the CAP, conduct an additional round of groundwater sampling and include the results of the sampling event in the CAP.

If you have any questions, please call me at (858) 505-6969.

Sincerely,

James Clay

Digitally signed by James Clay
DN: cn=James Clay, o, ou, email=james.clay@sdcounty.ca.gov, c=US
Date: 2013.12.11 16:42:43 -08'00'

JAMES CLAY, Environmental Health Specialist III
Site Assessment and Mitigation Program

cc: Mr. Chuck Houser, SCS (by email)

FISCHBECK & OBERNDORFER
A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW
5464 GROSSMONT CENTER DRIVE
THIRD FLOOR
LA MESA, CALIFORNIA 91942
TELEPHONE (619) 464-1200
WEBSITE: www.LaMesaLaw.com
FAX: (619) 464-8471

WILLIAM L. FISCHBECK
E-MAIL: wlf@lamesalaw.com

RECEIVED
AUG 23 2013
ENVIRONMENTAL HEALTH

August 22, 2013

H19469-001

Melissa Johnson, Esq.
The Spencer Law Firm
2727 Camino Del Rio South, Suite 140
San Diego, CA 92108

Re: 11391 Woodside Avenue, Santee, California
County Mandated Access

Dear Ms. Johnson:

You have forwarded to me your correspondence to SCS Engineers dated March 8, 2013. As I understand the reason to send that letter to me was to bring my attention to the items numbered 11 and 12. SCS can provide to you confirmation on the items 1 through 10 and 12. However, I will confirm, on behalf of the owner of 11427 Woodside, that all costs related to the wells to be installed on your client's property, including appropriate closing of such well(s), will be borne by my client. That is not in question and has at all times been part of the SCS correspondence.

In regard to item No. 11, the history and insurance availability are determinative. Firstly, my client is the owner of the property but is not the entity that created or caused the contamination that may have, at least in part, been generated on 11427 Woodside (there is some current information suggesting that other sources are in play). My client foreclosed on the property after contamination had been discovered and first reported to the County. Once my client was in ownership, since the prior owner/operator of the property was bankrupt and dissolved, my client agreed to undertake the remediation of the problem in accord with the LUST State Fund. As such, my client is cleaning up a mess caused by another. The process is such that the County and State Water Board dictate how that will be done. Frankly, with SCS, we opposed broadening the test wells but the County has insisted that your client's property be tested. We have no power to do otherwise. Since my client is not the contaminator, and the exact source of the contamination is not settled, we cannot agree to indemnity but can continue to prosecute the remediation so that the properties, both of them, are not impacted by the contamination. That is the process we are in and the County calls the shots.

In the past month, I have confirmed what I understood to be the case in regard to the insurance situation: There is no insurance that would meet your demand. Further, no such insurance would have been available for a site that is already noted as contaminated. For obvious reasons, no insurance company will take on coverage for an event that has already occurred.

We need to move forward with our County directed testing and remediation. Please have your client provide the necessary access to SCS so that we can move forward to solve this problem.

We anticipate and appreciate the cooperation of your client.

Very truly yours,

William L. Fischbeck

WLF:ww
cc: Property Owner
Chuck Houser, SCS
Ellen Beacon, County of San Diego, DEH
Wigington/Remediation/SCS/Johnson 8-22-13

H19469-001

The Spencer Law Firm
2727 Camino Del Rio South, Suite 140
San Diego, California 92108
Phone: 619-233-1313
fax: 619-296-1313

March 8, 2013

via U.S. Mail and email: chouser@scsengineers.com
SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego, California 92123
Attention: Chuck Houser

re: 11391 Woodside Avenue, Santee California

Dear Mr. Crosby:

I represent the Hurners regarding their property located at 11391 Woodside Avenue, Santee California. I have received and reviewed a number of correspondence between you and my clients and between the County of San Diego and my clients.

Your first communications with my clients requested permission to enter their property to drill a well for monitoring purposes. My clients promptly agreed to cooperate with you. However, they requested that they be named as additional insured on your policies of insurance and they wanted more information about the scope of work to be conducted on their property.

In the meantime, my clients received correspondence dated February 6, 2013 from the County of San Diego, Department of Environmental Health which contained very different information about the purpose of your proposed well and monitoring on the Hurner's property. The subject correspondence mentioned an ongoing site assessment because of an unauthorized release of petroleum hycrocarbons from underground storage tanks previously located on the adjacent property at 11427 Woodside Avenue, Santee California. My clients acknowledge the severity of the existence of petroleum hycrocarbons on their property and, as you can imagine, they are extremely concerned about this new information.

As you may be aware, the County's February 6, 2013 correspondence gave my clients 60 days to respond to its request that your company be given access to their property for the purpose of underground water assessment. My clients and I have been in the process of evaluating the implications related to the new information that there was an unauthorized release of petroleum hycrocarbons from underground storage tanks previously located on the adjacent property, which may have caused contamination on the Hurner's property.

In spite of the fact that the County gave my clients 60 days from February 6, 2013 to respond to its request that your company be granted access to their property, you sent an email to Mr. Hurner today accusing him of delay and threatening that delay and failure to cooperate could cause him to be liable for assessing, and potentially remediating, any contamination which exists on their property. To the contrary, if, at the beginning of your relationship with the Hurners. you had communicated the exact nature and purpose of the proposed well and monitoring, perhaps the current issues would have been resolved by now and your well would be in place and your monitoring would be in effect. The Hurner's believe that you were not completely forthcoming about the purpose of the monitoring, and now they are being made to look as though they are uncooperative.

In the spirit of cooperation my clients have asked me to convey the following requests:

1. Provide more information about the scope of your work on the Hurner's property, including:

    a. the estimated time that you will be present on the property to drill the well;
    b. the frequency and estimated time that you will be on the property to monitor and maintain the well;
    c. the estimated time that you will need to complete your assessment on the Hurner's property;
    d. when and how will the well be closed.

2. Your company maintains general liability, auto, workers comp and employers liability insurance and provide certificates of insurance from the carriers of said policies naming the Hurners as additional insured under the policies;

3. Your access to the Hurner's property is limited to installing the well in one of the predesignated locations, maintaining, monitoring and closing the well, unless otherwise agreed in writing;

4. Your company provides the Hurners at least 48 hours notice of any intention to enter their property;

5. If the county or any other government agency, or agents thereof, require access to the property, the Hurners are to be given 48 hour advance notice, and the Hurner's or their agent shall have the right to be present for the duration of each site visit.

6. The Hurner's engineer shall be permitted to extract samples from the well on their property;

7. The Hurners shall be given copies of monitoring results obtained from the well located on their property and any reports regarding groundwater assessment(s) related to their property;

8. Provide the Hurners with a copy of the application which was submitted to the Department of Environmental Health which relates to their property;

9. Provide the Hurners with a copy of any permit applications submitted and permits which are obtained for work on their property.

10. After the well is closed, or after the property is remediated, the property be returned to its current condition.

11. The insured for the property located at 11427 Woodside Avenue provide a certificate of insurance, naming the Hurners as additional insured, from its insurance carrier upon which a claim could be made if the Hurner's property is impacted or impaired as a result of contamination on the property and/or any remediation which must occur on the property.

12. Assurance that all costs associated with the placement, maintenance, monitoring and closing the well, any remediation, and impairment to the Hurner's property shall be born by the adjacent property owner.

In order to facilitate access to the Hurner's property, please contact Tom Hurner at your earliest convenience to discuss this matter.

Best regards,

Melissa Johnson, Attorney for The Hurners

CC: Ellen Beacon
County of San Diego Department of Environmental Health
via email: Ellen.Beacon@sdcounty.ca.gov
Chris Crosby via email: ccrosby@scsengineers.com

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Sent To: Mrs. Joyce Hunter
Street, Apt. No.; or PO Box No.: 6815 Cardinal Cove Drive
City, State, ZIP+4: Mound, MN 55364

PS Form 3800, August 2006 — See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ms. Joyce Hurner
6815 Cardinal Cove Drive
Mound, MN 55364

H19469-001

2. Article Number
(Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Joyce Hurner ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery: 2-19-13

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☑ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

PS Form 3811, February 2004 — Domestic Return Receipt — 102595-02-M-1540

JACK MILLER
DIRECTOR

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2088
1-800-253-9933
http://www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

February 6, 2013

Ms. Joyce Hurner
6815 Cardinal Cove Drive
Mound, MN 55364

Dear Ms. Hurner:

UNAUTHORIZED RELEASE H19469-001
WIGINGTON PETROLEUM INC.
11427 WOODSIDE AVENUE, SANTEE, CA 92071

The County of San Diego Assessors records show that you are the owner of the property located at 11391 Woodside Avenue, Santee (Parcel Number 382-320-09-00). As you may know, the site at 11427 Woodside Avenue referenced above, is undergoing a site assessment because of a release of petroleum hydrocarbons from the underground storage tanks previously located on the site. Consequently, the County of San Diego Department of Environmental Health (DEH) requires that, Ms. Linda Wigington, the responsible party, perform groundwater assessment activities on your property.

Before SCS Engineers Inc., on behalf of the responsible party, proceeds with the assessment of this case, they must obtain permission to access your property. It has been brought to our attention that SCS Engineers Inc., has made an attempt to contact you to obtain permission, but has been unsuccessful. It is of utmost importance that this assessment proceeds as requested by this Department to minimize the severity of impact to your property.

DEH hereby requests that you allow access to your property for purposes of assessment and cooperate with all future requests. Please contact Chuck Houser of SCS Engineers Inc., at 858-571-5500 to make arrangements. Should you fail to respond to this request **within 60 days from the date of this letter**, we may refer this case to the Regional Water Quality Control Board (RWQCB) for enforcement. Be advised that the RWQCB has the authority, under The Porter-Cologne Water Quality Control Act (Sections 13304 and 13305), to name you as the primary responsible party for the contamination affecting your property. Consequently, you would be responsible for the investigation and cleanup of the contamination beneath your property, **at your expense.**

It is in your best interest to allow SCS Engineers to install the well in order that the risks to human health at your property can be evaluated. We are obligated to advise you, per the California Heath and Safety Code, Chapter 6.6, Section 25249.6 (Proposition 65), that we may require you to notify all occupants of your property that the property may contain chemicals known by the state to cause cancer unless the assessment determines otherwise.

If you have any questions regarding this letter or any of the proposed activities and how they might affect your property, please do not hesitate to call me at (858)505-6983.

Sincerely,

Ellen Beacon

Digitally signed by Ellen Beacon
DN: cn=Ellen Beacon, o=County of San Diego, ou=SAM, email=Ellen.Beacon@sdcounty.ca.gov, c=US
Date: 2013.02.06 09:49:35 -08'00'

ELLEN BEACON, P.G. #7566
Project Manager
Site Assessment and Mitigation Program

CERTIFIED/RRR

Cc: Craig Carlisle, Regional Water Quality Control Board
Chuck Houser, SCS Engineers

WP/H19469-001Access2-13

Beacon, Ellen

From: Crosby, Christopher [CCrosby@scsengineers.com]
Sent: Tuesday, February 05, 2013 11:53 AM
To: Beacon, Ellen
Cc: Houser, Chuck; wlf@lamesalaw.com
Subject: Contact Info for Adjacent Property Owner at 11391 Woodside Ave., Santee
Attachments: 4826_001.pdf

Hi Ellen,

Chuck Houser spoke with you earlier today regarding contacting the adjacent property owner for the proposed groundwater monitoring well (MW-20 shown on the attached figure) for the downgradient assessment of 11427 Woodside Ave. (DEH # H19469-001). Below is the contact information for Joyce and Robert Hurner who are the property owners at 11391 Woodside Ave. in Santee (APN 382-320-09-00). Joyce Hurner is listed on the property information sheet as the owner, however all of our communications have been through her husband Robert Hurner.

[redacted] Joyce Hurner
6815 Cardinal Cove Drive
Mound, MN 55364

Email: rhurner@ix.netcom.com
Phone: 619-772-9595

Best Regards,

Chris Crosby
Staff Scientist
SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego, CA 92123
858-571-5500, ext. 230
858-204-4643 cell
ccrosby@scsengineers.com
www.scsengineers.com

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
858-505-6700/1-800-253-9933
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

OFFICIAL NOTICE

October 24, 2012

Mrs. Linda Wigington
c/o William Fischbeck
Fischbeck and Oberndorfer
5464 Grossmont Center Drive, 3rd Fl
La Mesa, CA 91942

Dear Mrs. Wigington:

PAST DUE NOTICE
UNAUTHORIZED RELEASE #H19469-001
WIGINGTON PETROLEUM
11427 WOODSIDE AVENUE, SANTEE, CA

A review of the Site Assessment and Mitigation Program (SAM) files indicates that the *Semi-Annual Groundwater Monitoring Report* associated with this site is **PAST DUE**.

The California Code of Regulations, Title 23, Division 3, Chapter 16, Article 5, Section 2652(d) states that until cleanup is complete, reports shall be submitted to the local agency every three months or at a more frequent interval if specified.

Within thirty (30) days of receipt of this letter, submit a written update report to SAM, summarizing all site activities and any proposals for further work. Update reports must be submitted until such time as the unauthorized release is resolved.

As a reminder, your lack of response to this notice can jeopardize your eligibility to receive State Underground Storage Tank Cleanup Fund reimbursement funds.

Please contact me at (858) 505-6983, if you have any questions regarding this matter.

Sincerely,

ELLEN BEACON, PG #7566
Project Manager
Site Assessment and Mitigation Program

cc: Charles Houser, SCS Engineers

WP/H19469-001 PD10-12

Beacon, Ellen H19469-001

From: Herrera, Zoraida
Sent: Tuesday, July 31, 2012 3:55 PM
To: Beacon, Ellen
Subject: RE: El Capitan Oil - 11427 Woodside Avenue
Attachments: 20120727 Letter to Wigington Petroleum.pdf

Oh, here is the letter they sent me with their original email... just in case you need it

Zoraida Herrera, REHS
Cell: 619.454.9682 * Fax: 858.505.6786

From: Beacon, Ellen
Sent: Tuesday, July 31, 2012 3:42 PM
To: Herrera, Zoraida
Subject: RE: El Capitan Oil - 11427 Woodside Avenue

Thanks Zoriada

From: Herrera, Zoraida
Sent: Tuesday, July 31, 2012 3:26 PM
To: Bill Frank; Steve Jonas; Andy Kelly
Cc: Ron Padgett; Matt Cullen; Beacon, Ellen
Subject: RE: El Capitan Oil - 11427 Woodside Avenue

Thanks for contacting me Bill.

Attached is the form from the State Water Resources Control Board (SWRCB) to report an underground storage tank (UST) unauthorized release; it has to be completed and sent to me.

I'm including Ellen Beacon from our Land & Water Quality Division in this email. She is the inspector assigned to a current site assessment case at this facility.

If you have any other question, do not hesitate to contact me.

Zoraida Herrera, REHS
Cell: 619.454.9682 * Fax: 858.505.6786

From: Bill Frank [mailto:BFrank@amberresources.com]
Sent: Tuesday, July 31, 2012 8:20 AM
To: Herrera, Zoraida; Steve Jonas; Andy Kelly
Cc: Ron Padgett; Matt Cullen
Subject: El Capitan Oil - 11427 Woodside Avenue

Zoraida:

Good morning, I hope that you are doing well.

Amber Resources (Dion & Son's) leases property and equipment at 11427 Woodside Avenue, Santee CA. The property is used as a cardlock petroleum distribution facility. On July 20, 2012, we were notified by the landlord, Wigington Petroleum Inc., that PSH were measured in monitoring well MW-10 by SCS Engineers during quarterly groundwater

monitoring. We immediately launched an investigation as described in the attached letter to identify the source and scope of any leakage. We expected to learn more this week after the results of testing that is being completed. We will keep you informed of our efforts and learnings.

Please let me know if you would like to discuss this information further. Ron Padgett, our Corporate Operations Manager, will be serving as the lead in these efforts. He is copied on this email and his phone number is (562) 432-1301 x 229. My contact information is below.

Regards,

Bill Frank

Amber Resources
Bill Frank | CFO
PH. (562) 432-1301 Ext. 216 | Fax (562) 435-3236

Amber Resources

Bulk Fuels ◊ Lubricants ◊ Cardlock ◊ Services ◊ Solvents ◊ Equipment

July 27, 2012

Wigington Petroleum, Inc.
C/o William Fischbeck, Esq.
Fishbeck and Oberndorfer
5464 Grossmont Center Drive, Third Floor
La Mesa, CA 91942

RE: El Capitan Oil, 11427 Woodside Avenue, Santee CA 91942

Dear Mr. Fischbeck,

Please be informed that we are in receipt of your letter dated 7/20/12, and that we immediately started an investigation into the potential causes of any releases at the aforementioned address.

Red dyed diesel is currently stored and dispensed out of below and above ground tanks at this site. As you know, the underground tanks are all part of the TLS 350 system, and therefore any loss of pressure, or the presence of any fluid in a sump would immediately shut the entire cardlock system down. We have not had any issues with the TLS 350 or the cardlock system recently.

Bulk red dyed diesel is stored in two of the leased AST's on the property. These tanks sit on concrete and the concrete does not show any sign of leakage from either tank. As you know, each tank feeds plumbing – we believe one line to be secondarily contained and one to not be secondarily contained. We are in the process of pressure testing the lines and draining the tanks and expect to have results from these tests within the next week. We are also reviewing inventory levels to determine if we can see any issues with a specific tank.

We are taking all necessary steps to determine the source and scope of the issue. We will continue to communicate and coordinate with you on any new developments. We will be reporting the potential release with Environmental Health, and would suggest you do the same. We will make sure we handle all efforts professionally and expeditiously. I can be reached to discuss this matter at (562) 432-1301 x 216.

Regards,

Bill Frank
Chief Financial Officer

Cc: Matt Cullen and Ron Padgett, Amber Resources
Charles Houser, CHg, SCS Engineers

1543 West 16th Street, Long Beach, CA 90813
562-432-3946 ◊ Fax 562-432-7969 ◊ 888-424-DION ◊ www.dionandsons.com

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
858-505-6700/1-800-253-9933
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

May 29, 2012

Mrs. Linda Wigington
c/o William Fischbeck
Fischbeck and Oberndorfer
5464 Grossmont Center Drive, 3rd Fl
La Mesa, CA 91942

Dear Mrs. Wigington:

UNAUTHORIZED RELEASE #H19469-001
WORK PLAN APPROVAL WITH CONDITIONS
WIGINGTON PETROLEUM
11427 WOODSIDE AVENUE, SANTEE, CA

This letter has been prepared in accordance with the requirements set forth in Title 23 (State Underground Storage Tank Regulations), Division 3, Chapter 16, Article 11, Section 2722. The purpose of this letter is to notify the Responsible Party of the status of the *Work Plan for Additional Site Assessment*, received by the County of San Diego, Site Assessment and Mitigation Program (SAM), on May 22, 2012.

The *Work Plan for Additional Site Assessment*, dated May 18, 2012, prepared by SCS Engineers, covers one of the following phases of corrective action:

Preliminary Site Assessment	( )
Soil and Water Investigation	(X)
Corrective Action Plan	( )
Verification Monitoring	( )
Interim Remedial Action	( )

The work plan has been:

( ) approved.
( ) disapproved for the following reasons.
(X) approved with the following changes or conditions:

The installation of proposed monitoring well 20 and the three piezometers is approved. Collection of a grab sample from the undeveloped well and installation of a step-out well is not approved.

The report summarizing this work must be submitted no later than September 27, 2012.

Keep this letter for your records as it may be required for corrective action cost reimbursement under Senate Bill 2004 (California Health and Safety Code, Division 20, Chapter 6.75, Article 6).

Please call me at (858) 505-6983 if you have any questions.

Sincerely,

Ellen Beacon

Digitally signed by Ellen Beacon
DN: cn=Ellen Beacon, o=County of San Diego, ou=SAM, email=Ellen.Beacon@sdcounty.ca.gov, c=US
Date: 2012.05.29 11:56:29 -07'00'

ELLEN BEACON, PG #7566
Project Manager
Site Assessment and Mitigation Program

cc: Chuck Houser, SCS Engineers (via e-mail) WP/H19469-001WPAC5-12

file

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
858-505-6700/1-800-253-9933
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

March 12, 2012

Ms. Linda Wigington
c/o William Fischbeck, Esq.
Fischbeck & Oberndorfer
5464 Grossmont Center Drive, 3rd Fl
La Mesa, CA 91942

Dear Ms. Wigington:

REPORT RESPONSE
UNAUTHORIZED RELEASE #H19469-001
WIGINGTON PETROLEUM
11427 WOODSIDE AVENUE, SANTEE, CA

The Semi-Annual *Groundwater Monitoring* report for the above referenced site, prepared by SCS Engineers, dated February 13, 2012, and received by the Department of Environmental Health on February 24, 2012 has been reviewed and we have the following comments:

- Regarding the recommendations for installing additional wells, a work plan with well location maps and well installation diagrams is required.

Keep this letter for your records as it may be required for corrective action cost reimbursement under Senate Bill 2004 (California Health and Safety Code, Division 20, Chapter 6.75, Article 6).

Please call me at (858) 505-6983 if you have any questions.

Sincerely,

Ellen Beacon

Digitally signed by Ellen Beacon
DN: cn=Ellen Beacon, o=County of San Diego, ou=SAM, email=Ellen.Beacon@sdcounty.ca.gov, c=US
Date: 2012.03.12 09:25:16 -07'00'

ELLEN BEACON, PG #7566
Project Manager
Site Assessment and Mitigation Program

cc: Chuck E. Hauser, SCS Engineers (via e-mail)

WP/H19469-RR3-12

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
858-505-6700/1-800-253-9933
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

OFFICIAL NOTICE

December 27, 2011

Mrs. Linda Wigington
c/o William Fischbeck
Fischbeck and Oberndorfer
5464 Grossmont Center Drive, 3rd Fl
La Mesa, CA 91942

Dear Mrs. Wigington:

PAST DUE NOTICE
UNAUTHORIZED RELEASE #H19469-001
WIGINGTON PETROLEUM
11427 WOODSIDE AVENUE, SANTEE, CA

A review of the Site Assessment and Mitigation Program (SAM) files indicates that the *well elevation survey and water table elevation map submittal* associated with this site are **PAST DUE**.

The California Code of Regulations, Title 23, Division 3, Chapter 16, Article 5, Section 2652(d) states that until cleanup is complete, reports shall be submitted to the local agency every three months or at a more frequent interval if specified.

Within fifteen (15) days of receipt of this letter, submit a written update report to SAM, summarizing all site activities and any proposals for further work. Update reports must be submitted until such time as the unauthorized release is resolved.

As a reminder, your lack of response to this notice can jeopardize your eligibility to receive State Underground Storage Tank Cleanup Fund reimbursement funds.

Please contact me at (858) 505-6983, if you have any questions regarding this matter.

Sincerely,

Ellen Beacon

Digitally signed by Ellen Beacon
DN: cn=Ellen Beacon, o=County of San Diego, ou=SAM, email=Ellen.Beacon@sdcounty.ca.gov, c=US
Date: 2011.12.27 12:12:45 -08'00'

ELLEN BEACON, PG #7566
Project Manager
Site Assessment and Mitigation Program

cc: Charles Houser, SCS Engineers

WP/H19469-001 PD 12-11

Beacon, Ellen

From: Beacon, Ellen
Sent: Monday, September 26, 2011 11:37 AM
To: 'chouser@scsengineers.com'
Subject: H19469-001 - Update HVDPE Work Plan - Past due on assessment info

Hi Chuck,

We are waiting on some data you owe us for this site that was due September 7, 2011.

I am looking at the work plan for HVPDE and it will need to be revised so that it meets the protocols we agreed upon for Wally's auto body site (barometric pressure monitoring etc.). Also you will need to analyze VOCs for 8260B rather than 8021.

Please send the assessment data ASAP and provide a **revised HVDPE work plan by October 26, 2011**.
Thank you.
Sincerely,

Ellen Beacon, P.G. 7566
Project Manager
Site Assessment & Mitigation Program
Department of Environmental Health
County of San Diego
P.O. Box 129261, San Diego, CA 92112-9261
858.505.6983

From: Beacon, Ellen
To: "Ramesh Sundareswaran"
Subject: Response to Second 5-Year Summary Report For Claim Number 912: 11427 Woodside Avenue, Santee, CA, DEH Case No. H19469-001
Date: Monday, September 26, 2011 10:08:00 AM

Greetings Ramesh:

Regarding 2nd Review Comments and Recommendations:

Please be advised, DEH has not approved the HVDPE pilot test work plan; we are sure it will require revisions. We are waiting for the RP to provide the additional assessment data requested in our letter dated August 23, 2011.

Sincerely,

Ellen Beacon, P.G. 7566
Project Manager
Site Assessment & Mitigation Program
Department of Environmental Health
County of San Diego
P.O. Box 129261, San Diego, CA 92112-9261
858.505.6983

CALIFORNIA
Water Boards

State Water Resources Control Board

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

RECEIVED
SEP 22 2011
ENVIRONMENTAL
HEALTH

SEP 19 2011

Scott Weldon
San Diego County Department of Environmental Health
Site Assessment and Mitigation Program
P.O. Box 129261
San Diego CA 92112-9261

SECOND 5-YEAR REVIEW SUMMARY REPORT FOR CLAIM NUMBER 912: 11427 WOODSIDE AVENUE, SANTEE, CA

The UST Cleanup Fund (Fund) has completed our second review of the LOP case number H 19469-001. The 5-Year Review Summary Report for this case is enclosed for your information and comment. Please note that the Fund's recommendations are based on review of information contained in the Fund's case files, data currently in the GeoTracker database and any other sources of information that were readily available to Fund staff at the time the review was conducted. Consequently, they may not reflect historical information that has not been uploaded to the GeoTracker database or available in the Fund's case files and any data that has been recently submitted to your office. During our review we solicited input the Regional Board caseworker to obtain the current status of corrective action at this site as well as information on any outstanding issues. If additional information was provided by the caseworker, it was considered by Fund staff and incorporated into our recommendations if applicable.

The Fund requests that the Regional Board staff notify the Fund within 45 days from the date of this letter as to whether you agree or disagree with our recommendations for this case. If you agree with our recommendation, we request that you provide the Fund with an estimated timeframe to either implement the recommendations for additional corrective action or for closing this case. If you do not agree with our recommendations, we request that you provide the Fund with a summary of the reasons for disagreeing and/or impediments to implementing the recommendations for additional corrective action or closing this case. Responses to the Fund may be provided by e-mail, letter or a copy of correspondence to the RP, if the correspondence addresses all the information requested by the Fund. Please direct your response to:

Ramesh Sundareswaran
Underground Storage Tank Cleanup Fund
State Water Resources Control Board
P.O. Box 944212
Sacramento, CA 94244-2120

Fund staff will be sending copies of all completed 5-Year Review Summary Reports to claimants 45 days from the date of this letter unless the Regional Board notifies the Fund that they wish to discuss this case prior to transmittal to the claimant. If you or your staff has any questions or concerns on specific reports that you would like to discuss with the Fund prior to transmittal of the report to the claimant, please contact Ramesh Sundareswaran at (916) 341-5670 or by email at RSundareswaran@waterboards.ca.gov within this period.

Sincerely,

Robert Trommer
Senior Engineering Geologist
Chief, Technical Review Unit
Underground Storage Tank Cleanup Fund

cc: Ellen Beacon, San Diego County DEH

Fund staff will be sending copies of all completed 5-Year Review Summary Reports to claimants 45 days from the date of this letter unless the Regional Board notifies the Fund that they wish to discuss this case prior to transmittal to the claimant. If you or your staff has any questions or concerns on specific reports that you would like to discuss with the Fund prior to transmittal of the report to the claimant, please contact Ramesh Sundareswaran at (916) 341-5670 or by email at RSundareswaran@waterboards.ca.gov within this period.

Sincerely,

Robert Trommer
Senior Engineering Geologist
Chief, Technical Review Unit
Underground Storage Tank Cleanup Fund

cc: Ellen Beacon, San Diego County DEH

State Water Resources Control Board

USTCF 5-YEAR REVIEW SUMMARY
2ND REVIEW

Case Information

USTCF Claim No.: 912
Claimant Name: Wigington Petroleum, Inc.
Site Name: El Capitan Oil Company
Site Address: 11427 Woodside Ave.
City: Santee
LOP: San Diego County DEH
Regional Board: 9 - San Diego Region

LOP Caseworker: Ellen Beacon
Lead Agency Case No: H19469-001
Global ID: T0607303173
Date LOC Issued: April 2000
USTCF Expenditures to Date: $353,021

Tank Information

Tank No.	Size in Gallons	Contents	Closed in Place/Removed/Active	Date
1	4000	Racing gas	Active	Since 2001
2	20,000	Red dye diesel, diesel and gasoline	Active	Since 2001
3	550	Gasoline	Removed	1988
4	5000	Gasoline	Removed	1988
5	1000	Gasoline	Removed	1988
6	2000	Gasoline	Removed	1988
7	7500	Gasoline	Removed	1988
8	7500	Diesel	Removed	1988
9-10	550	Waste oil	Removed	1988
11	2500	Gasoline	Removed	1988
12-15	6000	Diesel	Removed	1988

* Various above ground storage tanks are also onsite

Release Information

- Source of Release: Tank System
- Date of Release: An unauthorized release was discovered in March 1988.
- Affected Media: Soil and Groundwater

Site Information

- Site Description: Commercial fuel and oil facility.
- Groundwater Basin: San Diego Hydrologic Unit, Lower San Diego Hydrologic Area, Santee Hydrologic Subarea
- Groundwater Beneficial Uses: MUN, AGR, IND, PROC
- Surface Water Beneficial Uses: Existing: IND, REC1, REC2, WARM, COLD, WILD; Potential: MUN
- Land Use Designation: Commercial
- Distance to Nearest Supply Well (Municipal or Domestic): According to GeoTracker, there are no

active supply wells registered with the California Department of Public Health (CDPH) located within a ½-mile radius of the site.

- Minimum Depth to Groundwater: 26.46 feet below ground surface (bgs).
- Maximum Depth to Groundwater: 36.65 ft bgs.
- Flow Direction: Generally to the west-southwest.
- Soil Types: Alluvium overlying weathered granitic bedrock.
- Maximum Depth Sampled: 40 feet bgs.

Well Information

Well Designation	Date Installed	Screen Interval (feet bgs)	Most Recent DTW 4/2011
MW-1	1988	22- 42	28.36
MW-2	1988	24-44	29.41
MW-3	1988	24.5-44.5	29.32
MW-4	1988	22-42	27.74
MW-5	NA	NA	Destroyed
MW-6	2001	17-42	27.98
MW-7	2001	17-42	27.75
MW-8	2002	20.5-40.5	29.92
MW-9	2008	34-39	27.95
MW-10	2008	25-40	30.26
MW-11	2008	23-38	28.44
MW-12	2008	24-39	27.93
MW-13	2008	25-45	31.24
MW-14	2008	23-38	28.52
MW-15	2008	23.5-38.5	28.15
MW-16	2008	24-39	28.41
MW-17	2008	24.5-44.5	33.40
MW-18	2011	24-39	28.60
MW-19	2011	26-41	31.28

NA Data Not Available

active supply wells registered with the California Department of Public Health (CDPH) located within a ½-mile radius of the site.

- Minimum Depth to Groundwater: 26.46 feet below ground surface (bgs).
- Maximum Depth to Groundwater: 36.65 ft bgs.
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MW-16	2008	24-39	28.41
MW-17	2008	24.5-44.5	33.40
MW-18	2011	24-39	28.60
MW-19	2011	26-41	31.28

NA Data Not Available

Contaminant Concentrations

Contaminant	Soil (mg/kg)		Water (ug/L)		CA MCLs (ug/L)
	Maximum	Latest	Maximum	Latest	
TPH-g	11,000 B4-32 12/2002	NA	FP@ MW2 12/2010	55,000 MW19 4/2011	NA
TPH-d	115,444 10/1997	NA	FP@ MW2 12/2010	8400@ MW15 4/2011	NA
Benzene	65 550-2B[3] (T20) 5/1988	NA	FP@ MW2 12/2010	2400@ MW14 4/2011	1
Toluene	475 550-2B[3] (T20) 5/1988	NA	FP@ MW2 12/2010	2600@ MW19 4/2011	150
Ethylbenzene	2,600 B14-25 12/3/2002	NA	FP@ MW2 12/2010	4100@ MW19 4/2011	300
Total Xylenes	590 B1-32 12/3/2002	NA	FP@ MW2 12/2010	17,200@ MW19 4/2011	1,750
MTBE	<800	NA	FP@ MW2 12/2010	770@ MW14 4/2011	13 primary 5 secondary
TBA	NA	NA	FP@ MW2 12/2010	490@ MW2 4/2011	1200(RL)

mg/kg milligrams per kilogram or parts per million (ppm)
ug/L micrograms per liter or parts per billion (ppb)
MCL Maximum Contaminant Level
NA Not Analyzed or No Data Available
ND Not detected at or above laboratory limit
RL CDPH Response Level

Remediation Summary

- Free Product: Free product has been detected at the site as recently as 2010.
- Soil Excavation: Any data is unavailable at this time.
- In-Situ Soil Remediation: Mobile High Vacuum Dual Phase Extraction (HVDPE) was conducted between January 22, 2008 and February 24, 2008.
- Groundwater Remediation: Mobile HVDPE between January 22, 2008 and February 24, 2008.

Risk Evaluation

A soil vapor survey and health risk assessment was completed in March and April 2011 by SCS. Ten dual-nested soil vapor probes were installed to approximate depths of 5 and10 feet bgs. Soil vapor samples were collected on March 23, 2011 and April 5, 2011, and the results were used to determine the potential human health risks associated with the upward migration of vapors from petroleum hydrocarbon –bearing soil and groundwater beneath the Site. Based on modeling conducted by SCS, the calculated health risk at the Site does not exceed the criterion of 1.00 E-06 excess cancer risk. SCS concluded that "there is a low likelihood that a significant human health risk exists in connection with the concentrations of petroleum hydrocarbon constituents in the soil vapor beneath the Site." The County issued a letter

dated May 9, 2011, indicated concurrence with SCS's conclusion, and requested proper destruction of the soil vapor probes.

Comments and Recommedations

1st Review:

The Fund recommended that the County direct the Responsible Party(RP) to conduct additional assessment, if necessary, and prepare a corrective action plan (CAP) to determine the most feasible and cost effective method to remediate the site.

2nd Review: the Fund understands that the RP is preparing to undertake a LOP approved focused HVDPE pilot test prior to preparation of the CAP. The Fund concurs with the ongoing corrective action at the site.

S.R 9/19/2011

Ramesh Sundareswaran Date
Water Resource Control Engineer
Technical Review Unit
(916) 341-5670

Robert Trommer 9/19/11

Robert Trommer, CHG Date
Senior Engineering Geologist
Chief, Technical Review Unit
(916) 341-5684

dated May 9, 2011, indicated concurrence with SCS's conclusion, and requested proper destruction of the soil vapor probes.

Comments and Recommedations

1st Review:

The Fund recommended that the County direct the Responsible Party(RP) to conduct additional assessment, if necessary, and prepare a corrective action plan (CAP) to determine the most feasible and cost effective method to remediate the site.

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S.R 9/19/2011

Ramesh Sundareswaran Date
Water Resource Control Engineer
Technical Review Unit
(916) 341-5670

Robert Trommer 9/19/11

Robert Trommer, CHG Date
Senior Engineering Geologist
Chief, Technical Review Unit
(916) 341-5684

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
858-505-6700/1-800-253-9933
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

August 23, 2011

Ms. Linda Wigington
c/o William Fischbeck, Esq.
Fischbeck & Oberndorfer
5464 Grossmont Center Drive, 3rd Fl
La Mesa, CA 91942

Dear Ms. Wigington:

UNAUTHORIZED RELEASE #H19469-001
REPORT RESPONSE
WIGINGTON PETROLEUM
11427 WOODSIDE AVENUE, SANTEE, CA

The *Additional Site Assessment and Semi-Annual Groundwater Monitoring Report* for the above referenced site, prepared by SCS Engineers, dated August 18, 2011, and received by the Department of Environmental Health on August 19, 2011, has been reviewed and we have the following comments:

- TPH must be analyzed using EPA Method 8015B; the DHS LUFT Method is not acceptable.
- A well elevation survey of the new monitoring wells and a water-table elevation map must be provided for DEH to consider the location of any additional wells.

Please provide the above requested items by September 7, 2011.

Keep this letter for your records as it may be required for corrective action cost reimbursement under Senate Bill 2004 (California Health and Safety Code, Division 20, Chapter 6.75, Article 6).

Please call me at (858) 505-6983 if you have any questions.

Sincerely,

Ellen Beacon

Digitally signed by Ellen Beacon
DN: cn=Ellen Beacon, o=County of San Diego, ou=SAM, email=Ellen.Beacon@sdcounty.ca.gov, c=US
Date: 2011.08.23 11:13:38 -07'00'

ELLEN BEACON, PG #7566
Project Manager
Site Assessment and Mitigation Program

cc: Chuck E. Houser, SCS Engineers (via e-mail)

WP/H19469-RR8-11

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
858-505-6700/1-800-253-9933
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

May 9, 2011

Ms. Linda Wigington
c/o William Fischbeck, Esq.
Fischbeck & Oberndorfer
5464 Grossmont Center Drive, 3rd Fl
La Mesa, CA 91942

Dear Ms. Wigington:

UNAUTHORIZED RELEASE #H19469-001
REPORT RESPONSE
WIGINGTON PETROLEUM
11427 WOODSIDE AVENUE, SANTEE, CA

The *Soil Vapor Survey and Health Risk Assessment* report for the above referenced site, prepared by SCS Engineers, dated April 28, 2011, and received by the Department of Environmental Health on April 29, 2011, has been reviewed and we have the following comments:

- DEH concurs that there is a low likelihood that a significant health risk exists in connection with the concentrations of petroleum hydrocarbons in soil vapor beneath the onsite building. Therefore, the soil vapor probes may be properly destroyed.

Keep this letter for your records as it may be required for corrective action cost reimbursement under Senate Bill 2004 (California Health and Safety Code, Division 20, Chapter 6.75, Article 6).

Please call me at (858) 505-6983 if you have any questions.

Sincerely,

Ellen Beacon, P.G. 7566

Digitally signed by Ellen Beacon, P.G. 7566
DN: cn=Ellen Beacon, P.G. 7566, o=County of San Diego, ou, email=ellen.beacon@sdcounty.ca.gov, c=US
Date: 2011.05.09 09:42:57 -07'00'

ELLEN BEACON, PG #7566
Project Manager
Site Assessment and Mitigation Program

cc: Chuck E. Hauser, SCS Engineers (via e-mail)

WP/H19469-RR5-11

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
858-505-6700/1-800-253-9933
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

March 10, 2011

Mrs. Linda Wigington
c/o William Fischbeck
Fischbeck and Oberndorfer
5464 Grossmont Center Drive, 3rd Fl
La Mesa, CA 91942

Dear Mrs. Wigington:

UNAUTHORIZED RELEASE #H19469-001
REPORT RESPONSE
WIGINGTON PETROLEUM
11427 WOODSIDE AVENUE, SANTEE, CA

The *Quarterly Groundwater Monitoring Fourth Quarter 2010 report* prepared by SCS Engineers, dated February 21, 2011 and received by the Department of Environmental Health (DEH) on February 28, 2011, has been reviewed and we have the following comments:

DEH does not approve of (interim) hand bailing of free product. Please install temporary skimmers or propose another more efficient method of free product recovery.

Please call me at (858) 505-6983, if you have any questions.

Sincerely,

Ellen Beacon, P.G. 7566

Digitally signed by Ellen Beacon, P.G. 7566
DN: cn=Ellen Beacon, P.G. 7566, o=County of San Diego, ou, email=ellen.beacon@sdcounty.ca.gov, c=US
Date: 2011.03.10 09:29:50 -08'00'

ELLEN BEACON, PG #7566
Project Manager
Site Assessment and Mitigation Program

cc: Charles Houser, SCS Engineers (via e-mail)

WP/H19469-001RR 3-11

Beacon, Ellen

From: Houser, Chuck [CHouser@scsengineers.com]
Sent: Monday, January 10, 2011 1:50 PM
To: Beacon, Ellen
Subject: RE: H19469-001 Wigington Petroleum - Past due Notice
Attachments: image001.png

Ellen,

The City of Santee is currently processing the encroachment permit application for the well we will be drilling to the southwest along Woodside Avenue. We hope to have that approval within the next week or so. I expect to meet with the adjacent property owner (Jeff Hurley) this week or next to get his signature on the property owner consent form. Once we have both that and the approved encroachment permit, we will submit the drilling permit application to the monitoring well program and schedule the drill rig. We expect to include in the permit application the soil vapor wells to be installed for the soil vapor survey. I'll let you know when the drill rig has been scheduled.

Chuck

From: Beacon, Ellen [mailto:Ellen.Beacon@sdcounty.ca.gov]
Sent: Monday, January 10, 2011 1:32 PM
To: Houser, Chuck
Subject: H19469-001 Wigington Petroleum - Past due Notice

Greetings-
Please print out a copy of this letter for your records.
Thank you.
Sincerely,

Ellen Beacon, PG 7566
Environmental Health Specialist II
Site Assessment & Mitigation Program
Land & Water Quality Division
Department of Environmental Health
County of San Diego
1255 Imperial Avenue
P.O. Box 129261
San Diego, CA 92112-9261
Phone: 619.338.2243
fax: 619.338.2315

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
http://www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

OFFICIAL NOTICE

January 10, 2011

Mrs. Linda Wigington
c/o William Fischbeck
Fischbeck and Oberndorfer
5464 Grossmont Center Drive, 3rd Fl
La Mesa, CA 91942

Dear Mrs. Wigington:

PAST DUE NOTICE
UNAUTHORIZED RELEASE #H19469-001
WIGINGTON PETROLEUM
11427 WOODSIDE AVENUE, SANTEE, CA

A review of the Site Assessment and Mitigation Program (SAM) files indicates that the *Risk Assessment & Site Assessment Reports* associated with this site are **PAST DUE**.

The California Code of Regulations, Title 23, Division 3, Chapter 16, Article 5, Section 2652(d) states that until cleanup is complete, reports shall be submitted to the local agency every three months or at a more frequent interval if specified.

Within fifteen (15) days of receipt of this letter, submit a written update report to SAM, summarizing all site activities and any proposals for further work. Update reports must be submitted until such time as the unauthorized release is resolved.

As a reminder, your lack of response to this notice can jeopardize your eligibility to receive State Underground Storage Tank Cleanup Fund reimbursement funds.

Please contact me at (619) 338-2243, if you have any questions regarding this matter.

Sincerely,

Ellen Beacon, P.G. 7566

Digitally signed by Ellen Beacon, P.G. 7566
DN: cn=Ellen Beacon, P.G. 7566, o=County of San Diego, ou, email=ellen.beacon@sdcounty.ca.gov, c=US
Date: 2011.01.10 13:21:28 -08'00'

ELLEN BEACON, PG #7566
Project Manager
Site Assessment and Mitigation Program

cc: Charles Houser, SCS Engineers

WP/H19469-001 PD 1-11

Beacon, Ellen

From: Tavizon, Veronica
Sent: Wednesday, June 02, 2010 3:02 PM
To: Beacon, Ellen
Subject: Retroactive Well Destruction Permit Wigington Petroleum Site H19469

Hi Ellen,
The MWP received fees and a retroactive permit application for the destruction of monitoring well MW-5. Case number is H19463 at 11427 Woodside Ave., Santee. Permit LMON107148 was issued. Please see me if you have any questions.
Thanks,
Veronica

Veronica Tavizon-Hitchner, EHT
Monitoring Well Program
Department of Environmental Health
County of San Diego

(619) 338-2223
veronica.tavizon@sdcounty.ca.gov

EB

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

May 19, 2010

Mrs. Linda Wigington
c/o William Fischbeck
Fischbeck and Oberndorfer
5464 Grossmont Center Drive, 3rd Floor
La Mesa, CA 91942

Dear Mrs. Wigington:

UNAUTHORIZED RELEASE #H19469-001
WORK PLAN APPROVAL WITH CONDITIONS
WIGINGTON PETROLEUM
11427 WOODSIDE AVENUE, SANTEE, CA

This letter has been prepared in accordance with the requirements set forth in Title 23 (State Underground Storage Tank Regulations), Division 3, Chapter 16, Article 11, Section 2722. The purpose of this letter is to notify the Responsible Party of the status of the *Site Assessment Work Plan* received by the County of San Diego, Site Assessment and Mitigation Program (SAM), on April 28, 2010.

The Work Plan, dated April 26, 2010, and prepared by SCS Engineers, covers one of the following phases of corrective action:

Preliminary Site Assessment	( )
Soil and Water Investigation	(X)
Corrective Action Plan	( )
Verification Monitoring	( )
Interim Remedial Action	( )

The Work Plan has been:

( ) approved.
( ) disapproved-call the undersigned for further instructions.
(X) approved with the following changes or conditions:

- All soil samples submitted for laboratory analysis must be analyzed for benzene, toluene, ethylbenzene, xylenes, and fuel oxygenates using EPA Method 8260B.

This approval is valid for 180 days from the date of this letter. The work must be completed and a report submitted within 180 days. *Keep this letter for your records as it may be required for corrective action cost reimbursement under Senate Bill 2004 (California Health and Safety Code, Division 20, Chapter 6.75, Article 6).*

As a reminder, please continue submitting all of the soil and groundwater data electronically into GeoTracker based on our letter dated July 13, 2005.

Please call me at (619) 338-2243 if you have any questions.

Sincerely,

Ellen Beacon

ELLEN BEACON, PG #7566
Project Manager
Site Assessment and Mitigation Program

EB:kd

cc: Charles Houser, SCS Engineers

EB

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
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www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

May 18, 2010

Mrs. Linda Wigington
c/o Mr. William Fischbeck
Fischbeck and Oberndorfer
5464 Grossmont Center Drive, 3rd Floor
La Mesa, CA 91942

Dear Mrs. Wigington:

UNAUTHORIZED RELEASE #H19469-001
WORK PLAN APPROVAL WITH CONDITIONS
WIGINGTON PETROLEUM
11427 WOODSIDE AVENUE, SANTEE, CA

This letter has been prepared in accordance with the requirements set forth in Title 23 (State Underground Storage Tank Regulations), Division 3, Chapter 16, Article 11, Section 2722. The purpose of this letter is to notify the Responsible Party of the status of the *Work Plan for a Soil Vapor Survey and Health Risk Assessment* received by the County of San Diego, Site Assessment and Mitigation Program (SAM), on April 28, 2010.

The Work Plan, dated April 26, 2010, and prepared by SCS Engineers, covers one of the following phases of corrective action:

Preliminary Site Assessment	( )
Soil and Water Investigation	(X)
Corrective Action Plan	( )
Verification Monitoring	( )
Interim Remedial Action	( )

The Work Plan has been:

( ) approved.
( ) disapproved-call the undersigned for further instructions.
(X) approved with the following changes or conditions:

- An additional soil vapor probe must be installed on the westward facing side of the building.
- Purge tests must be conducted prior to sample collection.
- A leak test using a leak detection compound must be conducted for each sample collected. The leak detection compound must be analyzed for in all samples.

This approval is valid for 180 days from the date of this letter. The work must be completed and a report submitted within 180 days. *Keep this letter for your records as it may be required for corrective action cost reimbursement under Senate Bill 2004 (California Health and Safety Code, Division 20, Chapter 6.75, Article 6).*

As a reminder, please continue submitting all of the soil and groundwater data electronically into GeoTracker based on our letter dated July 13, 2005.

Please call me at (619) 338-2243 if you have any questions.

Sincerely,

Ellen Beacon

ELLEN BEACON, PG #7566
Project Manager
Site Assessment and Mitigation Program

EB:kd

cc: Charles Houser, SCS Engineers

Beacon, Ellen

From: Houser, Chuck [CHouser@scsengineers.com]
Sent: Monday, April 26, 2010 6:12 PM
To: Beacon, Ellen
Subject: Wigington Petroleum SCS #01028473.00

Ellen,

The workplan for the soil vapor assessment/human health risk assessment, and the workplan for additional groundwater assessment both went out in the mail today. They will be uploaded to Geotracker tomorrow. Please let me know if you have any questions. Thanks.

Chuck Houser
SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego, CA 92123
(858) 571-5500 ex. 244
(858) 805-5523 - cell

Beacon, Ellen

From: Houser, Chuck [CHouser@scsengineers.com]
Sent: Wednesday, April 21, 2010 3:17 PM
To: Beacon, Ellen
Cc: Pryatel, Chuck
Subject: Wigington Petroleum, SCS #01208473.00, DEH #H19469-001

Ellen,

I have a quick question as I wrap up preparation of these workplans for Wigington. Would it be acceptable to submit one workplan with both scopes (soil vapor assessment and off-site groundwater assessment) included, or do you want two separate workplans? Also, we received your letter on March 22 and are working to get them out tomorrow, April 22. Would Friday or Monday be ok? Thanks.

Chuck Houser
SCS Engineers
8799 Balboa Avenue, Suite 290
San Diego, CA 92123
(858) 571-5500 ex. 244
(858) 805-5523 - cell

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
5201 RUFFIN ROAD, SUITE C, SAN DIEGO, CA 92123
858-495-5572/FAX 858-694-3670/1-800-253-9933
http://www.sdcdeh.org

OFFICIAL NOTICE

March 29, 2010

James Olbinski
Petra Geotechnical, Inc.
38655 Sky Canyon Dr., #A
Murrieta, CA 92563

Dear Mr. Olbinski:

WELL DESTROYED WITHOUT A PERMIT
WIGINGTON PETROLEUM, INC., 11427 WOODSIDE AVENUE, SANTEE, CA 92071
APN: 382-320-06-00 ESTABLISHMENT # H19469-001

On March 11, 2010, Monitoring Well Program (MWP) staff inspected the above site to confirm the existence of an unpermitted well inside the building. The site manager escorted MWP staff to the well location and staff observed that the well had been destroyed.

No permit was issued for the destruction of this well. This is in violation of San Diego County Code of Regulatory Ordinances (SDCCRO), Title 6, Division 7, Chapter7, Article 5, Section 67.440 which requires that a permit first be obtained before construction or destruction of a well or drilling of a boring.

A 100% investigative fee is due under County of San Diego ordinance (Section 65.107 .f) for work, which requires a permit that is done without a permit. The permit fee for one well destruction is $193.00. The 100% investigative fee is $193.00. The total fee due is $286.00.

Submit the following by **April 20, 2010**:

1) A retroactive well destruction application for the well destruction.
2) The permit application fees.
3) A complete drilling report documenting the destruction of the well.

If you have any questions about this letter, please contact me at (619) 338-2013.

Sincerely,

M Crystal

Marisue Crystal
Environmental Health Technician
Monitoring Well Program

cc: Linda Wigington, Wigington Petroleum, Inc..
Ellen Beacon, DEH/SAM
SAM Internal Enforcement Committee



WP/

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
5201 RUFFIN ROAD, SUITE C, SAN DIEGO, CA 92123
858-495-5572/FAX 858-694-3670/1-800-253-9933
http://www.sdcdeh.org

OFFICIAL NOTICE

March 22, 2010

James Olbinsi
Petra Geotechnical, Inc.
12225 World Trade Dr., Suite P
San Diego, CA 92128

Dear Mr. Olbinski:

WELL DESTROYED WITHOUT A PERMIT
WIGINGTON PETROLEUM, INC., 11427 WOODSIDE AVENUE, SANTEE, CA 92071
APN: 382-320-06-00 ESTABLISHMENT # H19469-001

On March 11, 2010, Monitoring Well Program (MWP) staff inspected the above site to confirm the existence of an unpermitted well inside the building. The site manager escorted MWP staff to the well location and staff observed that the well had been destroyed.

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Submit the following by **April 20, 2010**:

1) A retroactive well destruction application for the well destruction.
2) The permit application fees.
3) A complete drilling report documenting the destruction of the well.

If you have any questions about this letter, please contact me at (619) 338-2013.

Sincerely,

M Crystal

Marisue Crystal
Environmental Health Technician
Monitoring Well Program

cc: Linda Wigington, Wigington Petroleum, Inc..
Ellen Beacon, DEH/SAM
SAM Internal Enforcement Committee

EB

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
http://www.sdcdeh.org

March 16, 2010

Ms. Linda Wigington
Wigington Petroleum, Inc.
c/o William L. Fischbeck, Esq.
5464 Grossmont Center Drive, Third Floor
La Mesa, CA 91942

Dear Ms. Wigington:

UNAUTHORIZED RELEASE #H19469-001
REPORT RESPONSE
WIGINGTON PETROLEUM, INC.
11427 WOODSIDE AVENUE, SANTEE, CA

The *Quarterly Groundwater Monitoring Report (Second Quarter 2009),* prepared by SCS Engineers for the above-referenced site, dated November 20, 2010, and received November 23, 2010, and the case files have been reviewed. We are also in receipt of a *Work Plan for Focused High-Vacuum, Dual-Phased Extraction Pilot Test;* however, this work plan has not been reviewed. Prior to conducting remedial testing, an on-site health risk assessment and delineation of the groundwater contamination should be completed.

Free product was first detected in the concrete-cased well also known as MW5 (which was reportedly destroyed without a permit) located inside the onsite building, in wells MW1, MW2, MW3, and MW4, and borings/temporary wells B3, B4, B13, and B17 in 2002. A soil vapor survey and human health risk assessment (HHRA) must be conducted to evaluate the potential for vapor intrusion into the onsite building. **Please submit a work plan to conduct a HHRA within 30 days of receipt of this letter.**

Additionally, the extent of benzene and fuel oxygenates in groundwater must be determined. Please submit a work plan for the installation of additional offsite wells, including a well located approximately midway between wells MW15 and 16 and 115 feet south of the dirt median shown on Figure 7 (*Site* Map with Proposed Down Gradient Monitoring Well) of the quarterly groundwater monitoring report referenced above. **The work plan for the off-site groundwater investigation must be submitted within 30 days of receipt of this letter.**

Please provide a table of well construction details and iso-concentration contour maps for tert- butyl alcohol in future groundwater monitoring reports.

Please call me at (619) 338-2243 if you have any questions.

Sincerely,

Ellen Beacon

ELLEN BEACON, PG #7566
Project Manager
Site Assessment and Mitigation Program

EB:kd

cc: Charles E. Houser, SCS Engineers

County of San Diego
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
www.sdcounty.ca.gov/deh/lwater/sam

TELEPHONE LOG – ELLEN BEACON

DATE: 3-11-2010 **FILE NO.: H19469-001** **Wigington Oil**

PHONE NUMBER: 858-571-5500

PERSON CONTACTED: Chuck Houser SCS ENGineers – called him – he wanted to talk – I want to ask about MW5 abandonment & tell him – I'm sending a letter etc.

Sherman, Teresa

From: Houser, Chuck [CHouser@scsengineers.com]
Sent: Monday, November 16, 2009 2:17 PM
To: Sherman, Teresa
Subject: RE: Wigington - Santee
Follow Up Flag: Follow up
Flag Status: Red

No problem, we'll get on it! Thanks.

Chuck

From: Sherman, Teresa [mailto:Teresa.Sherman@sdcounty.ca.gov]
Sent: Monday, November 16, 2009 2:13 PM
To: Houser, Chuck
Subject: RE: Wigington - Santee

Chuck,
No, I'm sorry. I discussed this with Tony, and we require a separate work plan for the proposed well installation (s)- can't be included with a groundwater sampling report. Keep in mind that it doesn't have to be long; you can reference the previous work plan and addendum for procedures.

Regards,
Teresa

Teresa Sherman
Environmental Health Specialist
County of San Diego, Department of Environmental Health
Site Assessment and Mitigation Group
(619) 338-2258

Mail Stop D-561

From: Houser, Chuck [mailto:CHouser@scsengineers.com]
Sent: Monday, November 16, 2009 9:15 AM
To: Sherman, Teresa
Subject: FW: Wigington - Santee

Hi Teresa,

Did you get a chance to look at this? Let me know if this is ok. Thanks.

Chuck

From: Houser, Chuck
Sent: Monday, October 26, 2009 4:20 PM
To: 'Sherman, Teresa'
Cc: Crosby, Christopher; 'wlf@lamesalaw.com'
Subject: RE: Wigington - Santee

Teresa,

I did too. I'll let you know when I have her e-mail address. As for the recommendations, we will be sure to include that. Here is the question, in lieu of a workplan, could we recommend a location or two in the groundwater report and simply tell you the wells will be installed in accordance with the previous Enecotech workplan, dated March 25, 2005, and the workplan addendum submitted by Petra, dated December 21, 2007, and expect you to approve the additional well or wells on that basis? Otherwise we would need to prepare a new workplan and that would take more time and money. I'll look forward to hearing from you. Thanks.

Chuck

From: Sherman, Teresa [mailto:Teresa.Sherman@sdcounty.ca.gov]
Sent: Monday, October 26, 2009 11:43 AM
To: Houser, Chuck
Subject: FW: Wigington - Santee

Chuck,
FYI- I received a message back that this e-mail was "undeliverable" to A. Snyder.

Thanks,
Teresa

Teresa Sherman
Environmental Health Specialist
County of San Diego, Department of Environmental Health
Site Assessment and Mitigation Group
(619) 338-2258

Mail Stop D-561

From: Sherman, Teresa
Sent: Monday, October 26, 2009 11:40 AM
To: 'Houser, Chuck'
Cc: Crosby, Christopher; wlf@lamesalaw.com; asnyder@znet.net
Subject: RE: Wigington - Santee

Hi Chuck,
Yes, our previous approval for the preparation and submittal of a workplan for a focused high vacuum dual phase extraction (HVDPE) pilot test at the Wigington Petroleum site is still valid.

Also, additional assessment is required to fully delineate the groundwater plume (offsite). Tony Sawyer and I have discussed the need for additional downgradient wells. If the last monitoring report is not finalized, I would appreciate it if you would include specific recommendations for additional assessment.

Please call if you have any questions.

Regards,
Teresa

Teresa Sherman
Environmental Health Specialist
County of San Diego, Department of Environmental Health
Site Assessment and Mitigation Group
(619) 338-2258

Mail Stop D-561

From: Houser, Chuck [mailto:CHouser@scsengineers.com]

Sent: Monday, October 26, 2009 11:23 AM
To: Sherman, Teresa
Cc: Crosby, Christopher; wlf@lamesalaw.com; asnyder@znet.net
Subject: Wigington - Santee

Hi Teresa,

As we discussed, please confirm that we have your approval to prepare and submit the focused high vacuum dual phase extraction workplan for the Site. We anticipate submitting that workplan by the end of November and would, with your approval, be prepared to implement it by early 2010. Thanks.

Chuck Houser
SCS Engineers

Sherman, Teresa

From: Sherman, Teresa

Sent: Monday, October 26, 2009 1:47 PM

To: 'DIANA CONKLE'

Cc: Martinez, Danny

Subject: Preliminary 5-year Review Summary Report for Claim 912; El Capitan Oil Company; SAM Case H19469-001

Diane,
We received your preliminary 5-year review summary report for the El Capitan Oil Company, 11427 Woodside Avenue, Santee, CA 92071, dated September 22, 2009. In the letter, the Fund recommends that the County direct the responsible party to conduct additional assessment, if necessary, and prepare a corrective action plan (CAP) to determine the most feasible and cost effective method to remediate the site.

We agree with your recommendations. I talked to the RP's consultant, SCS Engineers, today, and they are still preparing a semi-annual groundwater monitoring report and a workplan for a focused HVDPE pilot study. The groundwater plume has not been fully delineated offsite, and I had asked that they include their recommendations for additional groundwater assessment in the monitoring report. After the plume is defined, we will request a CAP. The additional HVDPE pilot study data will help in the selection of the best remedial option.

Hope all is well! If you have any questions, please don't hesitate to call or e-mail me.

Regards,
Teresa

Teresa Sherman
Environmental Health Specialist
County of San Diego, Department of Environmental Health
Site Assessment and Mitigation Group
(619) 338-2258

Mail Stop D-561

Linda S. Adams
Secretary for
Environmental Protection

State Water Resources Control Board

Division of Financial Assistance
1001 I Street • Sacramento, California 95814
P.O. Box 944212 • Sacramento, California • 94244-2120
(916) 341-5684 FAX (916) 341-5806 • www.waterboards.ca.gov/cwphome/ustcf

Arnold Schwarzenegger
Governor

RECEIVED
SEP 25 2009
ENVIRONMENTAL HEALTH

September 22, 2009

Danny Martinez
San Diego County Department of Environmental Health
Site Assessment and Mitigation Program
P.O. Box 129261
San Diego, CA 92112-9261

PRELIMINARY 5-YEAR REVIEW SUMMARY REPORT FOR CLAIM NUMBER 912; SITE ADDRESS: EL CAPITAN OIL COMPANY, 11427 WOODSIDE AVE, SANTEE, CA 92071

The UST Cleanup Fund (Fund) has completed our review of San Diego County Department of Environmental Health (County) case number H03370-001. The Preliminary 5-Year Review Summary Report for this case is enclosed for your information and comment. Please note that the Fund's recommendations are based on review of information contained in the Fund's case files, data currently in the Geotracker database and any other sources of information that were readily available to Fund staff at the time the review was conducted. Consequently, they may not reflect historical information that has not been uploaded to the Geotracker database or available in the Fund's case files and any data that has been recently submitted to your office.

The Fund requests that the County staff notify the Fund within 45 days from the date of this letter as to whether you agree or disagree with our recommendations for this case. If you agree with our recommendations, we request that you provide the Fund with an estimated timeframe to either implement the recommendations for additional corrective action or for closing this case. If you do not agree with our recommendations, we request that you provide the Fund with a summary of the reasons for disagreeing and/or impediments to implementing the recommendations for additional corrective action or closing this case. Responses to the Fund may be provided by e-mail, letter, or a copy of correspondence to the RP, if the correspondence addresses all the information requested by the Fund. Please direct your response to:

Diana Conkle
Underground Storage Tank Cleanup Fund
State Water Resources Control Board
P.O. Box 944212
Sacramento, CA 94244-2120
(dconkle@waterboards.ca.gov)

Fund staff will be sending copies of all completed 5-Year Review Summary Reports to claimants 45 days from the date of this letter unless the County notifies the Fund that

they wish to discuss this case prior to transmittal to the claimant. If you or your staff has any questions or concerns on specific reports that you would like to discuss with the Fund prior to transmittal of the report to the claimant, please contact Diana Conkle at (916) 341-5660 or by email (dconkle@waterboards.ca.gov) within this period.

Sincerely,

Diana Conkle

for Robert Trommer
Senior Engineering Geologist
Chief, Technical Review Unit
Underground Storage Tank Cleanup Fund

cc: Teresa Sherman, San Diego County DEH
Julie Chan, RWQCB, San Diego Region

State Water Resources Control Board

Division of Financial Assistance
1001 I Street • Sacramento, California 95814
P.O. Box 944212 • Sacramento, California • 94244-2120
(916) 341-5660 FAX (916) 341-5806 • www.waterboards.ca.gov/cwphome/ustcf

Linda S. Adams
Secretary for
Environmental Protection

Arnold Schwarzenegger
Governor

PRELIMINARY
USTCF 5-YEAR REVIEW SUMMARY

USTCF Claim No.: 912
Claimant Name: Wigington Petroleum, Inc.
Site Name: El Capitan Oil Company
Site Address: 11427 Woodside Ave.
City: Santee
LOP: San Diego County DEH
Regional Board: 9 - San Diego Region

LOP Caseworker: Teresa Sherman
Lead Agency Case No: H19469-001
Global ID: T0607303173
Date LOC Issued: April 2000
USTCF Expenditures to Date: $211,437
USTCF Priority Classification: C

I. CASE INFORMATION

Tank[1] No.	Size in Gallons	Contents	Closed in Place/ Removed/Active?	Date
Under Ground Storage Tanks				
1	800 (?)	Gasoline	Removed	5/1988
2	550	Kerosene	Removed	5/1988
3	880	Unused (Diesel)	Removed	5/1988
4	1,000	Gasoline	Removed	5/1988
5	7,500	Diesel	Removed	5/1998
6	2,500	Gasoline, Diesel, & Solvent	Removed	5/1998
7 – 10	6,000	Diesel	Removed	5/1998
11	3,000	Gasoline and Diesel (red-dye)	Active - Installed 1/1998	
12	8,000	Diesel	Installed 1/1998	
13	4,000	Gasoline and Diesel (red-dye)	Installed 1/1998	
Above Ground Storage Tanks				
1	10,000	30W Oil & Diesel	Active	
2	10,000	Diesel (red-dye)	Active	
3	6,700	Stove Oil, Kerosene, & Diesel (red-dye)	Active	
4	3,400	Stove Oil & Diesel	Active	
5	6,700	Diesel	Active	

1 Information provided in the June 4, 2003, Appeal to Fund Manager Decision Regarding Eligible Costs Letter of April 9, 2003 prepared by EnecoTech.

II. RELEASE INFORMATION

- Source of Release: UST System
- Date of Release: Unknown
- Affected Media: Soil and Groundwater

III. SITE CHARACTERIZATION INFORMATION

A. Site Information

- GW Basin: San Diego Hydrologic Unit, Lower San Diego Hydrologic Area, Santee Hydrologic Sub-Area
- Beneficial Uses: MUN, AGR, IND, PROC
- MTBE Threat Classification: C – Third Highest Priority
- Land Use Designation: Commercial
- Distance to Nearest Supply Well (Municipal or Domestic): According to GeoTracker, there are no active supply wells located within a ½-mile radius of the site.
- Groundwater Elevation Range: 329.42 feet above mean sea level (amsl) (MW-3, 4/5/2000) – 337.82 feet amsl (MW-3, 3/10/1998)
- Flow Direction: West/Southwest
- Soil Types: Alluvium overlying weathered granitic bedrock.
- Maximum Depth Sampled: 40 feet below ground surface (bgs)

B. Well Information

Well Designation	Date Installed	Screen Interval (feet bgs)	Most Recent DTW 12/2008
MW-1	NA	TD = 42	29.14
MW-2	NA	TD = 44.50	31.50
MW-3	NA	TD = 43.30	30.54
MW-4	NA	TD = 42	28.53
MW-5	NA	NA	Well Destroyed
MW-6	2/2001	16-41	28.71
MW-7	2/2001	16.5-41.5	28.48
MW-8	4/2002	20-40	30.60
MW-9	2/2008	24-39	28.68
MW-10	2/2008	25-40	32.62
MW-11	2/2008	23-38	28.96
MW-12	2/2008	24-39	28.45
MW-13	2/2008	25-45	32.54
MW-14	2/2008	23-38	29.22
MW-15	2/2008	23.5-38.5	28.80
MW-16	2/2008	24-39	28.95
MW-17	2/2008	24.5-44.5	34.34

NA Data Not Available
TD Total Well Depth (based on sampling data provided in the 4th quarter 2008 quarterly groundwater monitoring report)

IV. MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS

Contaminant	Soil (mg/kg)		USEPA RSLs		Water (ug/L)		CA MCLs (ug/L)
	Maximum	Latest	Residential (mg/kg)	Industrial (mg/kg)	Maximum[1]	Latest 12/2008	
TPH-g	11,000 B4-32 12/2002	NA	NA	NA	46,000 MW-15 7/30/2008	18,000 MW-14	NA
TPH-d	115,444 10/1997	NA	NA	NA	190,000 MW-3 4/26/2002	55,000 MW-17	NA
Benzene	61 B1-32 12/3/2002	NA	1.1	5.6	6,600 MW-14 7/30/2008	3,700 MW-14	1
Toluene	340 MW6-30' 2/26/2001	NA	5,000	46,000	1,400 MW-6 4/26/2002	12 MW-15	150
Ethylbenzene	2,600 B14-25 12/3/2002	NA	5.7	29	2,400 MW-14 4/21/2008 7/30/2008	1,500 MW-14 MW-15	300
Total Xylenes	590 B1-32 12/3/2002	NA	600	2,600	13,380 MW-15 4/21/2008	2,000 MW-14	1,750
MTBE	<800	NA	39	190	4,100 MW-4 3/10/1998	570 MW-14	13 primary 5 secondary
TBA	NA	NA	NA	NA	NA	2,100 MW-2	12[2]
1,2-DCA	NA	NA	0.45	2.2	NA	NA	0.5
Lead	NA	NA	400	800	NA	NA	15
PCE	NA	NA	0.57	2.7	NA	NA	5
TCE	NA	NA	2.8	14	NA	NA	5

RSLs Regional Screening Levels Established in September 2008
MCL Maximum Contaminant Levels
NA Not Analyzed or No Data Available
ND Not detected at or above method detection limits.
1 Historically, free product has been encountered in wells MW-1 – MW-4.
2 OEHHA Notification Level

V. FREE PRODUCT

Historically, free product has been encountered in monitoring wells MW-1 – MW-4. Free product was not encountered during the December 2008 monitoring event.

VI. SOIL AND GROUNDWATER REMEDIATION

A. Soil Excavation: Unknown

B. In-Situ Soil Remediation:

- METHOD: Mobile High Vacuum Dual Phase Extraction (HVDPE)
- DURATION: January 22, 2008 – February 24, 2008

C. Groundwater Remediation:

- METHOD: Mobile HVDPE
- DURATION: January 22, 2008 – February 24, 2008

VII. COMMENTS AND JUSTIFICATION FOR RECOMMENDED ACTION

The Fund recommends that the County direct the responsible party to conduct additional assessment, if necessary, and prepare a corrective action plan (CAP) to determine the most feasible and cost effective method to remediate the site.

The Fund will review the case next year to track progress.

Diana Conkle 9/22/09

Diana Conkle Date
Engineering Geologist
Technical Review Unit
(916) 341-5660

Robert Trommer 9/22/09

Robert Trommer, CHg Date
Senior Engineering Geologist
Chief, Technical Review Unit
(916) 341-5684

Sherman, Teresa

From: Sherman, Teresa
Sent: Monday, July 27, 2009 11:58 AM
To: 'DIANA CONKLE'
Subject: RE: El Capitan Oil Company (USTCF Claim No. 912)

Hi Diana,
Wigington Petroleum (El Capitan) has been in the process of changing consultants, first for remediation, and then for groundwater monitoring, so decisions on workplans and additional monitoring/ assessment have been delayed. In March 2009, I agreed to let them skip the 1st quarter 2009 sampling during the transition. Contracts were finalized in June 2009; SCS Engineers is the new consultant.

Concerning corrective action: On June 15, 2009, I requested (via e-mail) that SCS submit a workplan for a focused HVDPE pilot test (closer well spacing) by August 15, 2009.

Concerning additional assessment: Based on the latest gw monitoring report, the groundwater plume has not been fully delineated- moved way downgradient. SCS was going to perform groundwater monitoring and sampling around June 19th, 2009, so we agreed that in the next gw monitoring report, SCS will evaluate the data and provide their recommendations for further assessment/ additional wells. I will respond with a direction letter; I am sure more downgradient wells are needed, and possibly some (off-site) soil gas monitoring.

Don't hesitate to ask if you need more information!

Regards,
Teresa

Teresa Sherman
Environmental Health Specialist
County of San Diego, Department of Environmental Health
Site Assessment and Mitigation Group
(619) 338-2258

Mail Stop D-561
-----Original Message-----
From: DIANA CONKLE [mailto:DCONKLE@waterboards.ca.gov]
Sent: Monday, July 27, 2009 11:13 AM
To: Sherman, Teresa
Subject: El Capitan Oil Company (USTCF Claim No. 912)

Hi Teresa,

I'm review the above mentioned site located at 11427 Woodside Avenue in Santee (County Case No. H19469-001) and would appreciate a status update. Have you issued any recent directives for additional site assessment and/or remediation. Based on review of available documents, it appears that the only work being conducted at this time is semi-annual groundwater monitoring. What corrective action is planned for the site?

Thank you for your assistance,

Diana Conkle
Engineering Geologist
SWRCB, UST Cleanup Fund
Phone: 916-341-5660
Fax: 916-341-5806

Keep in file

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# _____

☑ TELEPHONE CONVERSATION Wigington Petroleum

DATE June 15, 2009 TIME ~10:40 LOCATION Trolley Towers

ATTENDEES/AGENCIES REPRESENTED * SAM

PHONE NO. ( ) _____

☑ PERSON CALLING/CALLED Chuck Howser, SCS Engineers, for Wigington Petroleum

☐ AGENCY REPRESENTED SAM

CONVERSATION/MINUTES ** Chuck @ SCS Engineers just cleared up remaining contract issues and will be doing the groundwater monitoring/assessment and any remedial work at the Wigington site. We (Tony, Chuck + I) had discussed the additional proposed work of a focused HVDPE pilot test & agreed that a work plan should be submitted. Now that contract is in place I will send him an e-mail request for the Workplan by August 15, 2009. Chuck mentioned a site under Kevin Heaton in Escondido where the results were positive.

Assessment/Monitoring: They will be doing the quarterly monitoring at the end of the week (I had said it was O.K. to skip 1st Qtr during transition of consultants). In the report, he will include any SCS recommendations for additional assessment. I told him that Tony + I had discussed the need for additional downgradient wells. The delineation is not complete.

NAME Teresa Sherman

SIGNED Teresa E. Sherman

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

* A sign-in sheet (HM-9048) should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

** Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

Sherman, Teresa

From: Sherman, Teresa
Sent: Monday, June 15, 2009 11:06 AM
To: 'Houser, Chuck'
Subject: RE: Wigington Petroleum, Santee

Chuck,
Yes, please submit a work plan for a focused HVDPE pilot test at the Wigington Petroleum site by August 15, 2009.

Also, thank you for the update on the RP's consultant switch from Petra to SCS Engineers.

Regards,
Teresa

Teresa Sherman
Environmental Health Specialist
County of San Diego, Department of Environmental Health
Site Assessment and Mitigation Group
(619) 338-2258

Mail Stop D-561
-----Original Message-----
From: Houser, Chuck [mailto:CHouser@scsengineers.com]
Sent: Monday, June 15, 2009 10:55 AM
To: Sherman, Teresa
Subject: RE: Wigington Petroleum, Santee

Hi Teresa,

As we just discussed, we understand that you are in agreement with our proceeding with a workplan for a focused high vacuum dual phase extraction (HVDPE) pilot test at the Site. Please reply to this e-mail with your approval for us to prepare that workplan. As for a deadline, you mentioned August 15th. That would be acceptable. Thanks.

Chuck

-----Original Message-----
From: Sherman, Teresa [mailto:Teresa.Sherman@sdcounty.ca.gov]
Sent: Tuesday, April 07, 2009 10:08 AM
To: Houser, Chuck
Subject: RE: Wigington Petroleum, Santee

Chuck,

I asked Tony Sawyer (the hydrogeologist for this case) about his schedule, but he does not believe a meeting is warranted at this time. He asks that if you have site data that suggest HVDPE will be effective at the site, please provide it to him, because the data presented in the HVDPE Pilot Test Report by Petra (James Olbinski) indicate otherwise. But feel free to call Tony to discuss it further (619-338-2289).

Regards,

Teresa

Teresa Sherman

Environmental Health Specialist

County of San Diego, Department of Environmental Health

Site Assessment and Mitigation Group

(619) 338-2258

Mail Stop D-561

From: Houser, Chuck [mailto:CHouser@scsengineers.com]
Sent: Tuesday, March 31, 2009 1:18 PM
To: Sherman, Teresa; Sawyer, Tony
Cc: William L. Fischbeck; Pryatel, Chuck
Subject: Wigington Petroleum, Santee

Teresa,

I am now officially proceeding with this project. As we discussed recently, I'd like to schedule a meeting with you and Tony to discuss the HVDPE a little further before you issue your letter. Please let me know some available times/dates so I can check with our client and we can set something up. Thanks for your consideration on this project.

Chuck

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# _____

☑ TELEPHONE CONVERSATION

DATE April 9, 2009 TIME _____ LOCATION Trolley Tavern

ATTENDEES/AGENCIES REPRESENTED * _____

PHONE NO. ( ) _____

☐ PERSON CALLING/CALLED Chuck Hawser, SCS

☐ AGENCY REPRESENTED SAM - Tony + Teresa Sherman
Survey

CONVERSATION/MINUTES ** _____

Discussed data gaps from last pilot test. Agreed that a very focused ~~HD~~ HVDPE pilot test would be helpful in selection of remedial alternative. Still a few contract issues of Petra ⇒ SCS.

NAME Teresa Sherman

SIGNED Teresa E. Sherman

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

* A sign-in sheet (HM-9048) should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

** Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

Sherman, Teresa

From: Sherman, Teresa
Sent: Monday, March 23, 2009 4:02 PM
To: 'Houser, Chuck'
Cc: Sawyer, Tony
Subject: RE: Wigington Petroleum, SAM Case #H19469-001

Chuck,
Yes, since there are only a few days left in the first quarter of 2009 and Wigington Petroleum is currently in the process of transitioning consultants from Petra to SCS Engineers, it is acceptable to not complete the first quarter 2009 sampling. Please schedule the second quarter 2009 monitoring and sampling event as soon as possible.

I have reviewed the recent Site Assessment Report, HVDPE Pilot Test report, and quarterly groundwater reports submitted by Petra, and I have discussed these reports with Tony Sawyer (hydrogeologist). Based on our discussions, I plan to prepare a letter requesting the submittal of workplans for a soil vapor survey (off-site) and for further delineation of the plume (with wells, not borings/Hydropunch). As I mentioned on the phone, we are not convinced that HVDPE would be effective at the site based on the pilot test results. However, we can set up a meeting to discuss the results with you directly, once your contract is in place. I will delay sending out a direction letter until after our meeting.

I look forward to hearing from you.

Regards,
Teresa

Teresa Sherman
Environmental Health Specialist
County of San Diego, Department of Environmental Health
Site Assessment and Mitigation Group
(619) 338-2258

Mail Stop D-561

From: Houser, Chuck [mailto:CHouser@scsengineers.com]
Sent: Monday, March 23, 2009 3:32 PM
To: Sherman, Teresa
Cc: Sawyer, Tony
Subject: Wigington Petroleum, SAM Case #H19469-001

Hi Teresa,

As we just discussed on the phone, SCS Engineers will have a contract to proceed with work at the Wigington Petroleum site in the next several days. When we discussed the status of quarterly sampling and the fact that first quarter sampling has not been accomplished, you indicated that it would be ok to just proceed with second quarter sampling and not do the first quarter. I would appreciate your reply to this e-mail as verification. As to the other issues we discussed, we understand that your current thought is that the high vacuum dual phase extraction (HVDPE) may not be an effective remediation alternative. Once we have the contract and are proceeding with the work, I will be in touch to request a meeting with you and Tony to discuss the results and some of my thoughts about how we might proceed. I appreciate the time and I'll be in touch again very soon.

Chuck Houser
SCS Engineers

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
http://www.sdcdeh.org

JACK MILLER
ASSISTANT DIRECTOR

September 4, 2008

Ms. Linda Wigington
Wigington Petroleum, Inc.
c/o William L. Fischbeck, Esq.
Fischbeck & Oberndorfer
5464 Grossmont Center Drive, Third Floor
La Mesa, California 91942

Dear Ms. Wigington:

WORKPLAN APPROVAL
UNAUTHORIZED RELEASE #H19469-001
EL CAPITAN OIL COMPANY
11427 WOODSIDE AVENUE, SANTEE, CA 92071

This letter has been prepared in accordance with the requirements set forth in Title 23 (State Underground Storage Tank Regulations), Division 3, Chapter 16, Article 11, Section 2722. The purpose of this letter is to notify the Responsible Party of the status of the Workplan received by the County of San Diego, Department of Environmental Health (DEH), Site Assessment and Mitigation Program (SAM), on July 25, 2008.

SAM staff reviewed the document, *Workplan for Well Maintenance and Well Destruction* (Workplan), prepared by Petra Geotechnical, Inc., and dated July 25, 2008. The Workplan describes proposed procedures for the abandonment (destruction) of concrete-cased well MW-5 and for the removal/reconstruction of the wellheads for monitoring wells MW-1, MW-2, MW-3, MW-4, MW-6, and possibly MW-7 and MW-8.

The Workplan has been:

( ) approved.
( ) disapproved-call the undersigned for further instructions.
(**X**) approved with the following changes or conditions:

1. When abandoning MW-5, backfill the excavated upper five feet with concrete rather than native materials.

2. Wellhead removal/reconstruction is approved for five to seven wells.

This approval is valid for 6 months from the date of this letter. *Keep this letter for your records as it may be required for corrective action cost reimbursement under Senate Bill 2004 (California Health and Safety Code, Division 20, Chapter 6.75, Article 6).*

Please have your consultant continue to upload all complete reports, boring data, monitoring well laboratory data, and location information (coordinates, elevation, depth to water, and site map) to the State Water Resources Control Board's GeoTracker geographic information system based on our letter dated July 13, 2005. Also, be advised that site assessment activities must meet with the standard of care as detailed in the current edition of the SAM Manual.

If you have any questions, please call me at (619) 338-2258.

Sincerely,

Teresa E. Sherman

TERESA E. SHERMAN, Project Manager
Site Assessment and Mitigation Program

TES:kd

cc: James Olbinski, Petra Geotechnical, Inc.

Sherman, Teresa

From: Sherman, Teresa
Sent: Wednesday, September 03, 2008 1:39 PM
To: 'Jim Olbinski'
Subject: Workplan Approval for Well Maintenance and Well Destruction- SAM Case H19469-001, El Capitan Oil/Wigington

Jim,
Based on our telephone conversation today, I understand that wellhead reconstruction may also be warranted for monitoring wells MW-7 and MW-8, if recommended after re-evaluation by Petra senior staff. In order not to hold up the contracting process, SAM is also approving wellhead removal and reconstruction of these two wells, if necessary (a total of five to seven wells). I will reflect that in our Workplan Approval Letter, which should be processed and mailed out by the end of this week.

Regards,
Teresa

Teresa Sherman
Environmental Health Specialist
County of San Diego, Department of Environmental Health
Site Assessment and Mitigation Group
(619) 338-2258

Mail Stop D-561

From: Sherman, Teresa
Sent: Thursday, August 28, 2008 8:56 AM
To: 'jolbinski@petra-inc.com'
Subject: Workplan Approval for Well Maintenance and Well Destruction- SAM Case H19469-001, El Capitan Oil/Wigington

James,
As we discussed on the phone yesterday, SAM is giving conditional approval to the *Workplan for Well Maintenance and Well Destruction* for the El Capitan Oil Company site (SAM Case #H19469-001). We received the Workplan from Petra on July 25, 2008.

The Workplan is approved, with the following conditions:

- When abandoning MW-5, backfill the excavated upper five feet with concrete rather than native materials.
- In addition to removing and reconstructing the wellheads for monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-6, complete the minor repairs necessary to bring MW-7 and MW-8 up to DEH/SAM specifications.

I will follow this e-mail with a formal letter to you and the property owner, Ms. Wigington, next week (when our secretary returns from vacation). Please call me if you have any questions at (619) 338-2258.

Regards,
Teresa

Teresa Sherman
Environmental Health Specialist
County of San Diego, Department of Environmental Health
Site Assessment and Mitigation Group

(619) 338-2258

Mail Stop D-561

TES

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
http://www.sdcdeh.org

JACK MILLER
ASSISTANT DIRECTOR

July 10, 2008

Ms. Linda Wigington
Wigington Petroleum, Inc.
c/o William L. Fischbeck, Esq.
Fischbeck & Oberndorfer
5464 Grossmont Center Drive, Third Floor
La Mesa, California 91942

Dear Ms. Wigington:

REPORT RESPONSE
UNAUTHORIZED RELEASE #H19469-001
EL CAPITAN OIL COMPANY
11427 WOODSIDE AVENUE, SANTEE, CA 92071

This letter has been prepared in accordance with the requirements set forth in Title 23 (State Underground Storage Tank Regulations), Division 3, Chapter 16, Article 11, Section 2722. The purpose of this letter is to notify the Responsible Party of the status of the report received by the County of San Diego, Department of Environmental Health (DEH), Site Assessment and Mitigation Program (SAM), on April 17, 2008.

SAM staff reviewed the *Fourth Quarter 2007 Groundwater Monitoring and Sampling Report* (Report), dated April 15, 2008, and prepared by Petra Geotechnical, Inc. The Report presents the results of groundwater monitoring and sampling activities conducted at the site on October 25, 2007, and describes the conditions of the eight existing monitoring wells. According to the Report, groundwater monitoring wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, and MW-8 have wellheads that do not meet County specifications. The Report also states that well MW-5, located inside the main office building, does not conform to specifications. MW-5 is an unpermitted, large diameter production well that is no longer in use.

The Report recommends that wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, and MW-8 have their respective wellheads removed or repaired to comply with County specifications and that well MW-5 be abandoned (destroyed). We concur with these recommendations and request the following:

1. Submit a workplan for the proposed wellhead reconstruction and well destruction activities by **August 22, 2008.**

2. Continue the quarterly groundwater monitoring program at the site and include the recently installed wells.

This approval is valid for 6 months from the date of this letter. Keep this letter for your records as it may be required for corrective action cost reimbursement under Senate Bill 2004 (California Health and Safety Code, Division 20, Chapter 6.75, Article 6).

As a reminder, please continue submitting all of the soil and groundwater data electronically into GeoTracker based on our letter dated July 13, 2005. SAM will not be able to close your unauthorized release case until all required information has been submitted to GeoTracker.

If you have any questions, please call me at (619) 338-2258.

Sincerely,

Teresa E. Sherman

TERESA E. SHERMAN, Project Manager
Site Assessment and Mitigation Program

TES:kd

cc: Charles Houser, Petra Geotechnical, Inc.

SITE VISIT
February 22, 2008
Wigington Petroleum
11427 Woodside Avenue, Santee, CA
H19469-001

Left Mill Building Office at 2:55 p.m. arrived at site at 3:30 p.m.; reviewed site map, well locations. Met consultant, Chuck Howser of Petra Geotechnical at after 4- held up by traffic. Left site at 5:15 p.m.

Well Installation and Sampling:

- Chuck showed me the 2 on-site and 7 off-site wells that were installed over the last weeks. They were unable to install the monitoring well along N. Woodside in front of Blue Star Steel. There are overhead lines right above. We will look at the data and see if this well is necessary. There is a dirt lot just west of the proposed location that may work for a well if needed.

- Wells are being sampled after 72 hours. Last sampling will be approx. Monday, Feb. 25th.

HVDPE Pilot Test:

- Chuck and Jason (on-site contractor) showed me the mobile unit, and Chuck discussed the results of their efforts so far. They are getting higher removal amounts from well MW-1 along south edge than from the wells with free product (MW-2, 3, 4)- could be the product is more diesel range.
- Chuck showed me the type of plots that he will be submitting.
- The HVDPE Pilot test will end Sunday, Feb. 24th- the subcontractor will be removing the system and will provide data to Petra. Petra will provise SAM a report with results and recommendations.

PERMIT # LMON105428
A.P.N. #382-320-06, 05, 07, 38, 381-170-68, 58, 62
EST # H19469

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
MONITORING WELL PROGRAM

MONITORING WELL AND BORING CONSTRUCTION AND DESTRUCTION PERMIT

SITE NAME: WIGINGTON PETROLEUM, INC

SITE ADDRESS: 11427 WOODSIDE AVE., SANTEE, CA 92017 AND OFF-SITE

PERMIT FOR: INSTALL 10 MONITORING WELLS

PERMIT APPROVAL DATE: 01/29/2008

PERMIT EXPIRES ON: 05/28/2008

RESPONSIBLE PARTY: MS. LINDA WIGINGTON

PERMIT CONDITIONS:

1. Wells must have a **minimum 3-foot concrete surface seal**. The surface seal shall consist of concrete able to withstand the maximum anticipated load without cracking or deteriorating. The concrete should meet Class A specifications of a minimum 4000-pound compressive strength.

2. All water and soil resulting from the activities covered by this permit must be managed, stored and disposed of as specified in the SAM Manual in Section 5, II, E- 4. (**http://www.sdcounty.ca.gov/deh/lwq/sam/manual_guidelines.html**). In addition, drill cuttings must be properly handled and disposed in compliance with the Stormwater Best Management Practices of the local jurisdiction.

3. Within 60 days of completing work, submit a well construction report, including all well and/or boring logs and laboratory data to the Well Permit Desk. This report must include all items required by the SAM Manual, Section 5, Pages 6 & 7.

4. This office must be given 48-hour notice of any drilling activity on this site and advanced notification of drilling cancellation. Please contact the Well Permit Desk at 338-2339.

NOTE: **This permit does not constitute approval of a work plan as defined in Section 2722 of Article 11 of C.C.R., Title 23. Work plans are required for all unauthorized release investigations in San Diego County.**

APPROVED BY: _____ DATE: 01/29/2008
JAMES CLAY

NOTIFIED: _____

DEH:SAM-9075 (3/05)

TES

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
www.sdcounty.ca.gov/deh/lwq

JACK MILLER
ASSISTANT DIRECTOR

January 16, 2008

Ms. Linda Wigington
Wigington Petroleum, Inc.
c/o William L. Fischbeck, Esq.
Fischbeck & Oberndorfer
5464 Grossmont Center Drive, Third Floor
La Mesa, CA 91942

Dear Ms. Wigington:

WORKPLAN APPROVAL
UNAUTHORIZED RELEASE #H19469-001
EL CAPITAN OIL COMPANY
11427 WOODSIDE AVENUE, SANTEE, CA 92071

This letter has been prepared in accordance with the requirements set forth in Title 23 (State Underground Storage Tank Regulations), Division 3, Chapter 16, Article 11, Section 2722. The purpose of this letter is to notify the Responsible Party of the status of the Workplan received by the County of San Diego, Department of Environmental Health (DEH), Site Assessment and Mitigation Program (SAM), on December 28, 2007.

The *Work Plan for High Vacuum, Dual-Phase Extraction Pilot Test and Interim Remediation*, dated December 24, 2007, was prepared by Petra Geotechnical, Inc. The Workplan proposes that a 30-day high vacuum, dual phase extraction (HVDPE) pilot test be conducted at the site to evaluate the feasibility of using this technology for mitigation of phase-separated petroleum hydrocarbons (free product) and contaminated groundwater.

The *Work Plan for High Vacuum, Dual-Phase Extraction Pilot Test and Interim Remediation* is:

( ) approved.
( ) disapproved-call the undersigned for further instructions.
(X) approved with the following changes or conditions:

1. Analyze soil vapor samples collected on the first and last days of the HVDPE pilot test for the presence of volatile organic compounds (VOCs) by EPA Method 8260B.

This approval is valid for 6 months from the date of this letter. Keep this letter for your records as it may be required for corrective action cost reimbursement under Senate Bill 2004 (California Health and Safety Code, Division 20, Chapter 6.75, Article 6).

As a reminder, please continue submitting all of the soil and groundwater data electronically into GeoTracker based on our letter dated July 13, 2005. SAM will not be able to close your unauthorized release case until all required information has been submitted to GeoTracker.

Please be advised that any site assessment must meet with the standard of care as detailed in the current edition of the SAM Manual. Failure to meet with the standard of care could result in referral of the consultant to the State Licensing Board.

If you have any questions, please call me at (619) 338-2258.

Sincerely,

Teresa E. Sherman

TERESA E. SHERMAN, Project Manager
Site Assessment and Mitigation Program

TES:ae

cc: Charles Houser, Petra Geotechnical, Inc.

TES

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
www.sdcounty.ca.gov/deh/lwq

JACK MILLER
ASSISTANT DIRECTOR

January 15, 2008

Ms. Linda Wigington
Wigington Petroleum, Inc.
c/o William L. Fischbeck, Esq.
Fischbeck & Oberndorfer
5464 Grossmont Center Drive, Third Floor
La Mesa, California 91942

Dear Ms. Wigington:

WORKPLAN APPROVAL
UNAUTHORIZED RELEASE #H19469-001
EL CAPITAN OIL COMPANY
11427 WOODSIDE AVENUE, SANTEE, CA 92071

This letter has been prepared in accordance with the requirements set forth in Title 23 (State Underground Storage Tank Regulations), Division 3, Chapter 16, Article 11, Section 2722. The purpose of this letter is to notify the Responsible Party of the status of the Workplan Addendum received by the County of San Diego, Department of Environmental Health (DEH), Site Assessment and Mitigation Program (SAM), on December 28, 2007.

The *Addendum to Revised Work Plan for Additional Site Assessment*, prepared by Petra Geotechnical, Inc., and dated December 21, 2007, covers one of the following phases of corrective action:

Preliminary Site Assessment	( )
Soil and Water Investigation	(X)
Corrective Action Plan	( )
Verification Monitoring	( )
Interim Remedial Action	( )

The Addendum proposes the addition of one groundwater monitoring well to the approved scope of work summarized in the *Revised Workplan for Additional Site Assessment,* prepared by EnecoTech Southwest, Inc., and approved by SAM staff on April 21, 2005. The Addendum describes the updated procedures for the installation and sampling of the ten proposed wells, and proposes the periodical monitoring and removal of free product from site monitoring wells.

The *Addendum to Revised Work Plan for Additional Site Assessment* has been:

( ) approved.
( ) disapproved-call the undersigned for further instructions.
(X) approved with the following changes or conditions:

1. Collect soil samples from all of the borings at changes in lithology/soil type, from depths previously identified with contamination, and when odors or discoloration are noted.

This approval is valid for 12 months from the date of this letter. *Keep this letter for your records as it may be required for corrective action cost reimbursement under Senate Bill 2004 (California Health and Safety Code, Division 20, Chapter 6.75, Article 6).*

As a reminder, please continue submitting all of the soil and groundwater data electronically into GeoTracker based on our letter dated July 13, 2005. SAM will not be able to close your unauthorized release case until all required information has been submitted to GeoTracker.

Please be advised that any site assessment must meet with the standard of care as detailed in the current edition of the SAM Manual. Failure to meet with the standard of care could result in referral of the consultant to the State Licensing Board.

If you have any questions, please call me at (619) 338-2258.

Sincerely,

Teresa E. Sherman

TERESA E. SHERMAN, Project Manager
Site Assessment and Mitigation Program

TES:kd

cc: Charles Houser, Petra Geotechnical, Inc.

Meeting with Tony Sawyer, Hydrogeologist on January 14, 2008, 1:00 p.m.

H19469-001
Wigington Petroleum/ El Capitan (operating fuel service facility)
11427 Woodside Ave.
Santee, CA

Beneficial Use GW; high benzene, MTBE
13 USTs removed 1987-1998; NOR 1993
8 wells; 10 more proposed; GW at 30'
Free product in 3 site wells: MW-2,3,4: 0.25 to 9 inches

1) **Workplan for HVDPE Pilot Test and Interim Remediation:**

- Evaluate contaminant influence rates, radius of influence; effectiveness for removing free product from gw and VOCs in soil
- 30-day pilot test; mobile unit; CalClean- notifies APCD (has thermal oxidizer) , gets a sewer discharge permit from City and Padre Dam Municipal Water
- 8-hr. on 3 wells, then a constant rate performance test
- Collect vapor samples in Tedlar bags: TPHg and BTEX by 8015 and 8021; one duplicate w/high concentrations may be analyzed by TO-3, TO-15
- Report w/plots, evaluation

2) **Addendum to Revised Workplan for Additional Site Assessment**

- 10^{th} well (approved by SAM, but asked for an addendum)
- Soil sampling- minimum of 5' intervals (didn't mention when contamination is indicated or previously found- add to letter)
- 2 (but per phone, Chuck said maybe 4" for potential extraction wells).
- TPHg, d: 8015M
- BTEX, MTBE, oxygenates: 8260B
- Differences in soil sampling, analytical method from Enecotech's wp- supersedes

Comments/Conclusions:
HVDPE Workplan approval with comments: Tony said soil vapor VOC analysis in pilot test should be by Method 8260, not 8021.

Site Assessment WP approval with comments: Make note to sample soil also when contamination indicated or where it was previously indicated in borings.

San Diego County

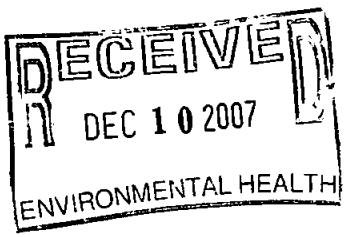
12225 World Trade Drive, Suite P
San Diego, California 92128
858-485-5530

PETRA

past + present + future
it's in our science

Engineers, Geologists
Environmental Scientists

December 7, 2007
J.N. 252-06



Ms. Julia Procopio
Principal Civil Engineer
City of Santee
Department of Development Services
Engineering Division
10601 Magnolia Avenue
Santee, California 92071

Re: Encroachment Permit No. N2006-120 Extension Request
Site Address: 11427 Woodside Avenue, City of Santee

Dear Ms. Procopio,

I spoke a couple of days ago with Mr. Moe Zarabi, Junior Engineer with the City of Santee, regarding Encroachment Permit No. N2006-120. Mr. Zarabi noted that the permit had expired, but with an explanation, an extension could be issued by the City of Santee. In addition, he stated that a new Certificate of Insurance was required before an extension could be given. It is my understanding that you have already been provided with a copy of an updated certificate of Insurance via e-mail from our corporate office.

The site (El Cap Oil) is currently under a directive from the San Diego County Department of Environmental Health (DEH) for assessment and cleanup due to leaking underground petroleum storage tanks. Drilling of the proposed wells (five in the City right of way, one on site and three on private properties adjacent to the site) has been delayed as access to the private properties has been negotiated. Currently, we still only have authorization to drill on one of the two private properties we need access to, so we are proceeding with performing the work on the properties, public and private, we can access.

We respectfully request an extension of Encroachment Permit No. N2006-210 so we can perform our work and comply with the County DEH directives regarding site assessment and cleanup. An extension of the Encroachment Permit will be greatly appreciated. If you have any questions or need further information, please contact the undersigned at (858) 485-5530.

Respectfully submitted,
PETRA GEOTECHNICAL, INC.

James S. Olbinski
Associate Geologist

JSO/CEH/jj

C:\MyFiles\2006\200\252-06\650 (Phase II Environ Invest)\252-06 Wigington Oil- Extension Request for Encroachment Permit.doc

Distribution: (1) Addressee, via U.S. Mail
(1) Moe Zarabi, Junior Engineer, City of Santee, via U.S. Mail
(1) Ms. Linda Wigington, Wigington Oil Company, via U.S. Mail
(1) San Diego County, Site Assessment and Mitigation Program
– Ms. Teresa E. Sherman, Project Manager, via U.S. Mail

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# 19469-001

☑ TELEPHONE CONVERSATION Wigington

DATE Dec. 6, 2007 TIME ~2:00 LOCATION Mills Bldg.

ATTENDEES/AGENCIES REPRESENTED * SAM DEH

PHONE NO. ( )

☑ PERSON CALLING/CALLED Chuck Howser, Wigington Petroleum Consultant Petra Geotech.

☐ AGENCY REPRESENTED

CONVERSATION/MINUTES ** Chuck Howser called to say they will be submitting a Workplan Addendum (to include 10th well - onsite) next week. They can't get (haven't gotten) assess permission yet to adjacent properties. I said that it is impt. to get this project moving, so they will go ahead + install the rest of the wells soon. He will submit a well permit application the week of the 17th Dec. probably. Hopes to drill in Mid-January 2008. He will discuss the access need w/ PM. Believes they are nearing product - will check through.

- Expect WP next week
- Expect well log appl. following week

NAME Teresa Sherman

SIGNED Teresa E Sherman

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

* A sign-in sheet (HM-9048) should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

** Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# 19469-001

☑ TELEPHONE CONVERSATION

DATE Nov. 5, 2007 TIME ~8:30 LOCATION Mills Bldg.

ATTENDEES/AGENCIES REPRESENTED * DEH/SAM

PHONE NO. (858) 485-5530

☑ PERSON CALLING/CALLED Doug Skinner, Petra Geotechnical @ for Wigington Pet

☐ ~~AGENCY REPRESENTED~~ Request for Product Removal workplan

CONVERSATION/MINUTES ** After discussing with EHS III, called Doug Skinner to request a formal workplan (brief) for the product removal procedures/storage/disposal of free product found in 3 monitoring wells. That way I can respond formally to better ensure Reimbursal of the owner from the cleanup fund for the Interim Remedial Action.

Doug Skinner says e-mail has worked in the past, but will send me a workplan.

NAME Teresa Sherman

SIGNED Teresa Sherman

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

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Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

Sherman, Teresa

From: Sherman, Teresa
Sent: Friday, November 02, 2007 2:37 PM
To: 'Doug Skinner'
Cc: 'chouser@petra-inc.com'
Subject: H19469-001: APPROVAL OF FREE PRODUCT MONITORING AND REMOVAL AT WIGINTON PETROLEUM/EL CAPITAN

Doug,
Thank you for the sampling update and your proposal to monitor and purge free product from three of the monitoring wells at the site every two weeks. The product removal is considered a necessary Interim Remedial Action (CCR Title 23, Division 3, Chapter 16, Article 11), and your proposal is hereby approved by DEH/SAM.

I request that you track the LNAPL thicknesses and amounts of LNAPL removed from each well and provide an updated table and map along with waste manifests in the quarterly groundwater monitoring reports. If you would like to adjust the purging schedule based on the amount of product you are recovering, call or e-mail me. Also, please ensure that the storage container for the free product is grounded.

Thanks again for the update. Feel free to contact me if you have questions.

Regards,
Teresa

Teresa Sherman
Environmental Health Specialist
County of San Diego, Department of Environmental Health
Land & Water Quality Division
Site Assessment and Mitigation Program
(619) 338-2258

-----Original Message-----
From: Doug Skinner [mailto:dskinner@petra-inc.com]
Sent: Friday, November 02, 2007 10:10 AM
To: Sherman, Teresa
Subject: Wigington Petroleum/El Capitan petroleum (DEH Case #19469-001)

Hello-

I spoke to you on the phone Wednesday about what we had found during our recent groundwater monitoring and sampling event at El Capitan Petroleum in Santee. I thought I would follow with up this email to give you the latest on the situation at the site.

There are 8 monitoring wells at the site. MW-1 is not accessible due to machinery and debris that will be eventually moved. MW-5 is a 12" concrete cased well approximately 70 feet deep. The well vault is in the flooring of the trailer offices. It was not sampled with the approval of SAM personnel. Of the remaining 6 wells, MW-2, MW-3, and MW-4 had free product with thicknesses ranging from 0.25-inch to 9-inches.

With your approval we will begin conducting free product monitoring and purging activities at the site every two weeks. if you have any questions or would like to discuss this site further, please give me or Chuck Houser a call.

Thanks-

Doug Skinner PG 7971, CEG 2472
Project Geologist
Petra Geotechnical, Inc.
ph:(858)485-5530

fax: (858) 485-8215
cell: (858) 967-1035

FISCHBECK & OBERNDORFER
A PROFESSIONAL CORPORATION
ATTORNEYS AT LAW
5464 GROSSMONT CENTER DRIVE
THIRD FLOOR
LA MESA, CALIFORNIA 91942
TELEPHONE (619) 464-1200
WEBSITE: www.LaMesaLaw.com
FAX: (619) 464-6471
WILLIAM L. FISCHBECK
E-MAIL: wlf@lamesalaw.com

RECEIVED
OCT 31 2007
ENVIRONMENTAL HEALTH

October 30, 2007

Teresa E. Sherman, Project Manager
Site Assessment and Mitigation Program
County of San Diego
Department of Environmental Health
Land and Water Quality Division
P.O. Box 129261
San Diego, CA 92112-9261

Re: Linda Wigington
Approval for Additional Monitoring Well
Unauthorized Release # H19469-001
El Capitan Oil Company
11427 Woodside Avenue, Santee, CA 92071

Dear Ms. Sherman:

This office represents Linda Wigington. We are in receipt of your correspondence dated October 10, 2007.

Please send all future correspondence for Mrs. Wigington to this office until further notice.

Thank you.

Very truly yours,

William L. Fischbeck

WLF:dnw
cc: Linda Wigington
Charles Houser, Petra Geotechnical, Inc.
Wigington/Remediation/County-10-30-07

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# 1 9469-001

☑ TELEPHONE CONVERSATION

DATE Oct. 25, 2007 TIME ~ 2:30 pm LOCATION Mills Building

ATTENDEES/AGENCIES REPRESENTED * DEH/SAM

PHONE NO. (858) 485-5530

☑ PERSON CALLING/CALLED Chuck Houser; Petra Geochemical for Wigington Petroleum

☐ AGENCY REPRESENTED

CONVERSATION/MINUTES ** They are sampling wells today and are concerned about sampling a well that appears to be ~ 12" diameter, 70', unknown construction; large amount of water to purge. Should he sample? I said no; hold off. We can look at the data from previous investigations and see if we want to include it next qtr., or replace it, or abandon it. It is inside a building - I believe it was supposed to have been removed, but will check files. For now, don't sample it - it is probably the one that once had free product and was supposed to be removed - will look at previous correspondence.

(checked and it is likely MW-5)

NAME Teresa Sherman

SIGNED Teresa E Sherman

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

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Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

TES

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
www.sdcounty.ca.gov/deh/lwq

JACK MILLER
ASSISTANT DIRECTOR

October 10, 2007

Ms. Linda Wigington
Wigington Petroleum, Inc.
2027 Paraiso Avenue
Spring Valley, CA 91977

Dear Ms. Wigington:

APPROVAL FOR ADDITIONAL MONITORING WELL
UNAUTHORIZED RELEASE #H19469-001
EL CAPITAN OIL COMPANY
11427 WOODSIDE AVENUE, SANTEE, CA 92071

In a letter to you dated April 21, 2005, the Department of Environmental Health (DEH), Site Assessment and Mitigation Program (SAM), staff approved, with qualifications, a *Revised Workplan for Additional Site Assessment* at the subject property. The *Revised Workplan*, dated March 25, 2005, and prepared by EnecoTech Southwest, Inc., proposed the installation and sampling of nine groundwater monitoring wells at the site and in the site vicinity. We understand that Petra Geotechnical, Inc., has been authorized to implement the *Revised Workplan* on your behalf, and is awaiting finalization of two site access agreements to install wells on neighboring properties.

On September 6, 2007, SAM staff received a request from Charles Houser of Petra Geotechnical, Inc., to add one more groundwater monitoring well to the planned installation of nine wells. This well will be installed onsite in the west corner of the property, where high benzene concentrations were previously reported in groundwater. We approve this request, and also require the following:

1. Submit an Addendum to the approved *Revised Workplan*.

   The Addendum should describe the location, installation procedures, and sampling program for the additional well, as well as summarize the previously approved scope of work. Ensure that all proposed work meets the current standard of care as detailed in the SAM Manual.

2. Initiate a quarterly groundwater monitoring program for existing wells, adding planned wells after installation.

   A Groundwater Monitoring and Reporting Checklist is provided in the SAM Manual. Groundwater sample analyses should include the following: total petroleum hydrocarbons as gasoline (TPHg) and as diesel (TPHd); benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tertiary butyl ether (MTBE) and related oxygenates; and naphthalene.

This approval is valid for 6 months from the date of this letter. *Keep this letter for your records as it may be required for corrective action cost reimbursement under Senate Bill 2004 (California Health and Safety Code, Division 20, Chapter 6.75, Article 6).*

As a reminder, please continue submitting all of the soil and groundwater data electronically into GeoTracker based on our letter dated July 13, 2005. Several previous submittals that were denied on the basis of incomplete or inaccurate data must be corrected and resubmitted to GeoTracker.

Please be advised that any site assessment must meet with the standard of care as detailed in the current edition of the SAM Manual. Failure to meet with the standard of care could result in referral of the consultant to the State Licensing Board.

If you have any questions, please call me at (619) 338-2258.

Sincerely,

Teresa E. Sherman

TERESA E. SHERMAN, Project Manager
Site Assessment and Mitigation Program

TES:ae

cc: Charles Houser, Petra Geotechnical, Inc.

Sherman, Teresa

From: Sherman, Teresa
Sent: Friday, October 05, 2007 4:02 PM
To: 'chouser@petra-inc.com'
Cc: 'William L. Fischbeck'; asnyder@znet.com; mmurbach@petra-inc.com
Subject: RE: Wigington Petroleum

Chuck,
I appreciate the update. I drafted the letter today, and should be able to get it reviewed and finalized early next week.

Thank you and have a great weekend!

Regards,
Teresa

Teresa Sherman
Environmental Health Specialist
County of San Diego, Department of Environmental Health
Land & Water Quality Division
(619) 338-2258

From: Chuck Houser [mailto:chouser@petra-inc.com]
Sent: Friday, October 05, 2007 3:15 PM
To: Sherman, Teresa
Cc: 'William L. Fischbeck'; asnyder@znet.com; mmurbach@petra-inc.com
Subject: Wigington Petroleum

Teresa,

Here is the update I promised when I spoke with you a few days ago. I've heard from the property owner to the east and the access agreement is in progress and may be finalized as early as the end of October. I have not heard from the Hurley's to the west. As soon as I know what progress there is with access to their property, I'll let you know.

We will look for your letter sometime next week giving us your directive to add the 10th well to the program, and to go ahead with groundwater monitoring and sampling right away. As soon as we get the letter, we will get the client's approval to sample the existing wells right away. Thank you.

Chuck

Charles E. Houser, PG 5781, CEG 2206
Petra Geotechnical, Inc.
12225 World Trade Dr., Ste. P
San Diego, CA 92128
858-485-5530 P 8215 F
chouser@petra-inc.com

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# 19469-001

☑ TELEPHONE CONVERSATION

DATE 10/4/07 TIME ~1:15 LOCATION Mills Building

ATTENDEES/AGENCIES REPRESENTED * DEH/SAM

PHONE NO. (858) 485-5530

☐ PERSON CALLING (CALLED) Chuck Howser - Petra - Consultant for Wigington Petroleum

☐ AGENCY REPRESENTED DEH/SAM

CONVERSATION/MINUTES ** I called Chuck to tell him my results of meeting with Tony Sawyer about the case and that I would be sending a letter out probably early next week to Mrs Wigington (RP) about the following:

1) ~~Report~~ Recommendation to install an additional well on site at location of v. high benzene is agreed to - add one well to the 9 planned for total of 10.

2) The wells have not been sampled since 2002. Reinitiate quarterly monitoring + reporting

3) Provide an addendum to the previous workplan by EnecoTech, summarizing what will be done - 10 wells

I also inquired about the status of the access agreements - we need to get this project going. Chuck said his understanding is the access agreements are with the lawyers. He will inquire about the status + send me an email by the end of next week. Sampling of existing wells can occur right away.

NAME Teresa Sherman

SIGNED Teresa Sherman

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

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Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

Sherman, Teresa

From: Chuck Houser [chouser@petra-inc.com]
Sent: Friday, September 07, 2007 12:01 PM
To: Sherman, Teresa
Cc: 'William L. Fischbeck'; asnyder@znet.com
Subject: Wigington Petroleum

Good morning Teresa,

As we discussed yesterday, we recommend that one additional well (in addition to the nine wells already included in the approved workplan) be installed at the west corner of the site. As we discussed, the previous consultant interpreted high dissolved phase concentrations in groundwater at the western corner of the site. Therefore, we recommend an additional well in this location to evaluate the groundwater conditions in this portion of the site. If you can give us a reply to this e-mail with your concurrence with this recommendation, we will proceed with adding one well to the program. Thanks.

Charles E. Houser, PG 5781, CEG 2206
Petra Geotechnical, Inc.
12225 World Trade Dr., Ste. P
San Diego, CA 92128
858-485-5530 P 8215 F
chouser@petra-inc.com

9/10/07 Follow-up phone call on Sept-10-07.
Told Chuck I would review the data in that area & discuss with hydrogeologist; get back to him probably next 2 weeks. He will discuss with his client the need to get the access agreements signed A.S.A.P. for neighboring properties + get the site assessment completed. TES

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# 19469

☑ TELEPHONE CONVERSATION

DATE 9/6/07 TIME 3:40 p.m. LOCATION Mills

ATTENDEES/AGENCIES REPRESENTED * Chuck Howser for Wigington Petroleum

PHONE NO. ( )

☑ PERSON CALLING/CALLED

☐ AGENCY REPRESENTED

CONVERSATION/MINUTES ** Chuck Howser called from Wigington site. He is going to send me an e-mail concerning installing a 9th well at the location of EnecoTech boring B-1. On the figure in EnecoTech workplan, B-1 is shown with a 10,000 µg/L Benzene concentration (located at west corner of property). He would like consideration of putting a well there to (1) give better idea of what is moving off the site + presence of free product. - Could be used as an extraction well. He would put this well in earlier with the other onsite well and the 5 ROW wells in the workplan if access agreements cannot be reached soon with the adjacent two property owners. The western states well not would likely be moved to the SE further. I said the access agreements are taking too long. If approved well, may include a letter mentioning need to monitor offsite contamination determination. Chuck will e-mail + call back tomorrow. Note: I would have to discuss proposed well with Troy Sawyer hydrogeologist before approval.

NAME Teresa Sherman

SIGNED Teresa E Sherman

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

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Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

Sherman, Teresa

From: Chuck Houser [chouser@petra-inc.com]
Sent: Friday, August 31, 2007 1:21 PM
To: Sherman, Teresa
Subject: Wigington Petroleum

Hi,

As we just discussed, Petra will be implementing the revised workplan for nine new wells (one onsite, two west of the site, one east of the site, and 5 along the Woodside Avenue/Hwy 67 alignment) prepared by Enecotech for the site. We'll keep you posted on the progress.

Chuck

Charles E. Houser, PG 5781, CEG 2206
Petra Geotechnical, Inc.
12225 World Trade Dr., Ste. P
San Diego, CA 92128
858-485-5530 P 8215 F
chouser@petra-inc.com

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# 19469-001

☒ TELEPHONE CONVERSATION

DATE August 31, 2007 TIME 1:00 pm LOCATION Mills Bldg

ATTENDEES/AGENCIES REPRESENTED * Chuck Houser, consult. for Petra Representing Wigington (El Capitan Oil)

PHONE NO. (858) 485-5530

☐ PERSON CALLING/CALLED Chuck Houser / Petra

☐ AGENCY REPRESENTED Teresa Sherman-DEH/SAM

CONVERSATION/MINUTES ** Chuck asked to sample site wells in 3rd Qtr, because still no ~~assessment~~ access agreement w/ neighbors on both sides. Jeff. Hurley signed consent form, but lawyers are looking at the access agreements. He expects that the well installation/sampling will happen in the 4th Qtr. 2007. I said NO, since Dave F. had not approved and since it will only be a few months difference after years of not sampling, would not gain much from it. May reconsider if no access.

I asked if he plans to use Enercs Tech's revised workplan (yes). He will send an e-mail to that effect and I told him to also be sure he has the conditional letter that Dave F. sent approving the workplan. He will find it. I told him to be sure to include naphalene - was not mentioned in 12/2006 well permit application.

I asked if he will be putting in new application or applying for extensions? He has already had 2 extensions; believes time is over. He will contact Massive / tell client. The new + existing wells will be sampled. He will call as things progress.

NAME Teresa Sherman

SIGNED Teresa Sherman

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

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Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

D. Felix

PERMIT # LMON104463
A.P.N. #382-320-05-06, 07
EST # H19469-001

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
MONITORING WELL PROGRAM

MONITORING WELL AND BORING CONSTRUCTION AND DESTRUCTION PERMIT

SITE NAME: FORMER EL CAPITAN OIL COMPANY AND OFFSITE

SITE ADDRESS: 11427 WOODSIDE AVENUE AND OFFSITE AT 11421, 11433 AND CITY RIGHT OF WAY (HWY 67) NORTH AND SOUTH BOUND ADJACENT TO 11377 WOODSIDE AV, 11322, 11350, 11366, 11424 N WOODSIDE AV., SANTEE, CA 92071

PERMIT FOR: **1 ONSITE, 3 OFFSITE WELLS AND 5 WELLS LOCATED ON CITY RIGHT OF WAY ADJACENT TO 11377 S WOODSIDE AV, 11322, 11350, 11366, & 11424 N WOODSIDE AV., SANTEE, CA 92071**

PERMIT APPROVAL DATE: DECEMBER 26, 2006

PERMIT EXPIRES ON: APRIL 25, 2007

RESPONSIBLE PARTY: MS. LINDA WIGINGTON

PERMIT CONDITIONS:

1. Wells must have a **minimum 3-foot concrete surface seal**. The surface seal shall consist of concrete able to withstand the maximum anticipated load without cracking or deteriorating. The concrete should meet Class A specifications of a minimum 4000-pound compressive strength.

2. All water and soil resulting from the activities covered by this permit must be managed, stored and disposed of as specified in the SAM Manual in Section 5, II, E- 4. (**http://www.sdcounty.ca.gov/deh/lwq/sam/manual_guidelines.html**) In addition, drill cuttings must be properly handled and disposed in compliance with the Stormwater Best Management Practices of the local jurisdiction.

3. Within 60 days of completing work, submit a well construction report, including all well and/or boring logs and laboratory data to the Well Permit Desk. This report must include all items required by the SAM Manual, Section 5, Pages 6 &7.

4. This office must be given 48-hour notice of any drilling activity on this site and advanced notification of drilling cancellation. Please contact the Well Permit Desk at 338-2339.

NOTE: **This permit does not constitute approval of a work plan as defined in Section 2722 of Article 11 of C.C.R., Title 23. Work plans are required for all unauthorized release investigations in San Diego County.**

The installation of one monitoring well located offsite at 11433 Woodside Avenue is not approved at this time. A signed property owner consent letter must be submitted to the Monitoring Well Program in order to drill this well.

APPROVED BY: _____ DATE: 12.26.2006
JAMES CLAY

NOTIFIED: emailed copy

DEH:SAM-9075 (3/05)

Blue Star Steel

Carson Trailer

Travlin' RV

Thunderworks/ Eliminator Boats

Terra Trailer &Truck

Auto Corral AC Truck Bodies

Toyota Lift

Rich's Machine

North Woodside Avenue

HWY 67 South

Center Divider

HWY 67 North

MW-8

South Woodside Avenue

Western States Fire Protection

MW-6

MW-4

MW-7

Mouser Electronics

MW-1

MW-5

MW-2

El Capitan Petroleum

MW-3

EXPLANATION

Proposed Monitoring Well Locations

MW-8 Existing Monitoring Well Locations

PETRA GEOTECHNICAL, INC.
12225 WORLD TRADE DRIVE, SUITE P
SAN DIEGO, CALIFORNIA 92128
PHONE: (858) 485-5530
SAN DIEGO MURRIETA DESERT REGION COSTA MESA SANTA CLARITA

Site Plan

Wigington Petroleum

DATE: Oct 2006	J.N.: 252-06	
DWG BY: MAM	SCALE: 1"=100'	

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
www.sdcounty.ca.gov/deh/lwq

DANIEL J. DE LAURENTIS
ASSISTANT DIRECTOR

October 25, 2006

LINDA WIGINGTON
WIGINGTON PETROLEUM INC
2027 PARASIO AV
SPRING VALLEY, CA 91977

Dear Sir or Madam:

CALIFORNIA STATE UNDERGROUND STORAGE TANK CLEANUP FUND IS SCHEDULED TO SUNSET (DISCONTINUE) JANUARY 1, 2011
CLEAN UP YOUR SITE NOW, WHILE REIMBURSEMENT IS STILL AVAILABLE
UNAUTHORIZED RELEASE #H19469-001
EL CAPITAN OIL COMPANY -- 11427 WOODSIDE AV, SANTEE CA 92071

You have been identified by the Department of Environmental Health (DEH), Site Assessment and Mitigation Program (SAM), staff as a Responsible Party (RP) for a leaking underground storage tank (LUST) case in San Diego County. This letter is to notify you that the State Water Resources Control Board (SWRCB) Underground Storage Tank (UST) Cleanup Fund (Cleanup Fund) is scheduled to sunset (discontinue) on January 1, 2011. This letter is being sent to all RPs of LUST cases except major oil companies. Clean up your leaking UST ***NOW***, while you can still be reimbursed by the Cleanup Fund.

What is the UST Cleanup Fund?
The Cleanup Fund was created in 1989 by the California Legislature to provide a means to help you, the petroleum UST owner and operator, pay for the cleanup of contaminated soil and groundwater following the discovery of a release from your UST system. The Cleanup Fund provides reimbursement for costs related to petroleum releases from leaking UST systems, including preliminary site assessment, soil and water investigations, and clean up.

What happens when the Cleanup Fund sunsets?
Under current law, no additional money will be added to the Cleanup Fund after January 1, 2011.

What are my options for reimbursement for investigation and cleanup expenses after 2011?
You will not receive any reimbursement for investigation and cleanup expenses after the monies in the Cleanup Fund are exhausted in 2011. Upon exhaustion of the Cleanup Fund, remaining claims will be invalid.

Do I still have to clean up my leaking underground storage tank after the Cleanup Fund sunsets?
YES. The applicable State laws and regulation still require that you investigate and clean up releases from your leaking UST system.

Who will pay for my cleanup once the Cleanup Fund has sunset?
YOU will be fully responsible for paying for investigation and cleanup of your leaking UST system.

Why do I need to worry about this now?
Leaking UST cleanups can often take several years to complete. You should get started as soon as possible to ensure that you can still receive reimbursement for the cost of the cleanup work.

What can I do?
There are several things you can do to make sure that you take maximum advantage of the petroleum UST Cleanup Fund while it is still available:

- Complete investigation and clean up your site now while you can still receive reimbursement.
- Apply for the UST Cleanup Fund. For more information please see the web page http://www.waterboards.ca.gov/cwphome/ustcf/ or contact the State Water Resources Control Board Division of Financial Assistance, Underground Storage Tank Cleanup Fund, P.O. Box 944212, Sacramento, CA 94244-2120, (800) 813-FUND.
- Ensure your eligibility for reimbursement by seeking approval from the Cleanup Fund and DEH/SAM for any proposed work. If you have already started to clean up your site, you should talk with your DEH/SAM case Project Manager as well as your consultant to see how you can increase the progress of cleanup.
- Be sure that all required information has been submitted to the on-line GeoTracker database and make required notification(s) to property owners. DEH/SAM will not be able to close your LUST case until all required information has been submitted. If the required information is lacking, it could impede your reimbursement from the UST Cleanup Fund. This office previously provided a letter (dated July 13, 2005) to you regarding all GeoTracker and landowner notification requirements. For additional information related to electronic submittal of information (ESI) and the GeoTracker database please see the following SWRCB web pages:
- GeoTracker, Frequently Asked Questions (FAQs) web page: http://www.waterboards.ca.gov/ust/cleanup/electronic_reporting/faq.html
- Electronic Submittal of Information (ESI) to GeoTracker: http://www.waterboards.ca.gov/ust/cleanup/electronic_reporting/index.html
- For additional information related to Landowner Notification and Participation Requirements please see web page: http://www.waterboards.ca.gov/ust/leak_prevention/lgs/158.html
- For inactive and low priority LUST cases you may wish to apply to DEH/SAM's Private Oversight Program (POP). Due to current funding restrictions, inactive and low priority cases will not be reviewed by the DEH/SAM unless you apply for the POP and pay the required fees. For additional information on the POP, please see the web page:

  http://www.sdcounty.ca.gov/deh/lwq/sam/pop.html.
- Self-directed work plans may be implemented, without approval from DEH/SAM, 60-days following submittal per the H&S Code Section 25296.10 (c)(4). However, self-directed work has the risk of not being reimbursed by the UST Cleanup Fund; thus, it is strongly recommended to seek approval from the UST Cleanup Fund for any proposed work and/or enter the POP. In addition, there are still two phases of work requiring DEH/SAM oversight. These are the Correction Action Plan (CAP) phase and case closure phase. Oversight work for these phases would require submittal to the POP.

If you ignore this notice, you may jeopardize your eligibility for reimbursement by the UST Cleanup Fund and miss your opportunity to be reimbursed for the cost of cleanup of your UST system.

If you have any questions, please contact me, at (619) 338-2259, or via email at George.McCandless@sdcounty.ca.gov.

Sincerely,

GEORGE E. McCANDLESS, Supervisor
Site Assessment and Mitigation Program

GEM:kd

cc: D. FELIX

WP/SUNSETLETTER-(10-25-06)

PETRA

OFFICES IN THE COUNTIES OF
ORANGE ▪ SAN DIEGO ▪ RIVERSIDE ▪ LOS ANGELES ▪ SAN BERNARDINO

RECEIVED
2006 JUL 24 PM 11 27
D. E. H.
MAILROOM

July 21, 2006
J.N. 252-06

Mr. David Felix
San Diego County Site Assessment and Mitigation Program
P.O. Box 129261
San Diego, California 92112-9261

Subject: **Status Report, Wigington Petroleum (El Capitan Oil), 11427 Woodside Avenue, Santee, San Diego County, California. DEH Case #H19467-001**

Dear Mr. Felix:

The purpose of this letter is to apprise you of the current project status and provide an estimated schedule for upcoming project work. As you may recall, Petra contacted you by phone several months ago to discuss the project and inform you of our intention to sample the existing site groundwater monitoring wells. In that conversation, you indicated that a workplan for additional site assessment had been prepared and approved, and that you expected the scope of work outlined in that workplan to be implemented. Petra reviewed the workplan, titled Revised Workplan for Additional Site Assessment, 11427 Woodside Avenue, Santee, California, H19469-001/T0948/APN 382-320-06, prepared by EnecoTech, dated March 25, 2005.

That workplan proposes the drilling and installation of nine additional groundwater monitoring wells at the site and in the site vicinity. Five of the nine wells would be located along Woodside Avenue and North Woodside Avenue. Petra is currently contacting the City of Santee and other applicable municipalities or agencies to determine the requirements for drilling and sampling wells in the public rights-of-way where these wells are to be located. We anticipate completing a proposal for the approved scope of work by mid-August 2006. Work will commence after the proposal is approved by our client, Ms. Linda Wigington.

Once we have authorization to proceed, we will begin the process of obtaining the necessary encroachment permits and contacting applicable property owners for access to the proposed drill sites. Although it is difficult to estimate the time that will be required to obtain encroachment permits and make access arrangements, we would anticipate that this process would take no

more than one month. A permit application will be submitted to the San Diego County Department of Environmental Health (DEH) for approval once the encroachment permit has been approved by the City of Santee. Drilling and installation of the wells would be accomplished within two to three weeks of permit approval, depending of availability of drill rigs and site access.

At this point we would anticipate drilling and installing the wells as early as late October or early November, 2006, or possibly sooner. If you have any questions regarding this letter or need further information, please contact the undersigned at your convenience.

Respectfully submitted,

Petra Geotechnical, Inc.
ENVIRONMENTAL DIVISION

Charles E. Houser, CEG 2206
Senior Project Geologist

Distribution: (1) San Diego County Site Assessment and Mitigation Program, Mr. David Felix via US Mail
(1) Ms. Linda Wigington, c/o William Fischbeck, Esq. via US Mail
(1) State UST Cleanup Fund, via US Mail

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# 19469-1

☒ TELEPHONE CONVERSATION

DATE 5/8/06 TIME 2:15 LOCATION Huntington

ATTENDEES/AGENCIES REPRESENTED *

PHONE NO. ( )

☐ PERSON CALLING/CALLED Chuck Hamm - Petra

☐ AGENCY REPRESENTED

CONVERSATION/MINUTES ** He wants to sample existing wells. Why? Regs require - not, they do not.
I said executed W.P. was approved April 2005. I feel additional assessment is the more important work right now.
I said send me a brief W.P. explaining why/who wants this sampling done. I will consider it.
C.H. said he would go back to C.W. + discuss my suggestions

NAME

SIGNED

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

* A sign-in sheet (HM-9048) should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

** Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

LIST OF LANDOWNERS FORM

County of San Diego
Department of Environmental Health
Land and Water Quality Division
P.O. Box 129261
San Diego, CA 92112

CERTIFIED LIST OF RECORD FEE TITLE OWNERS FOR

SITE NAME: El Capitan Oil

ADDRESS: 11427 Woodside Ave

CITY, STATE, ZIP: Santee, Cdy 92071

UNAUTHORIZED RELEASE CASE NUMBER: H19469 - 001 Gw

Please fill out item 1 if there are multiple site landowners (attach extra sheet if necessary). If you are the sole site landowner, skip item 1 and fill out item 2.

1. In accordance with Section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, Linda Winston (name of primary responsible party), certify that the following is a complete list of current record fee title owners (owners on the title or deed) and their mailing addresses for the above site:

NAME: Linda Winston

ADDRESS: P.O. Box 2304

CITY, STATE, ZIP: Spring Valley Ca. 91977

NAME:

ADDRESS: N/A

CITY, STATE, ZIP:

NAME:

ADDRESS: N/A

CITY, STATE, ZIP:

---

2. In accordance with Section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I Linda Winston, certify that I am the sole landowner for the above site.

Sincerely,

Signature of Primary Responsible Party

Linda Winston

Printed Name

7-20-05

Date

(Please fold along dotted lines and tape)

Site Assessment and Mitigation Program

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST-CLASS MAIL PERMIT NO. 10326 SAN DIEGO CA

POSTAGE WILL BE PAID BY ADDRESSEE

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
PO BOX 129261
SAN DIEGO CA 92112-9816

DEH:SAM-9500.a1 (11/97)

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
www.sdcounty.ca.gov/deh/lwq

RICHARD HAAS
ASSISTANT DIRECTOR

July 13, 2005

LINDA WIGINGTON
WIGINGTON PETROLEUM
2027 PARASIO AV
SPRING VALLEY, CA 91977

Dear Responsible Party:

GEOTRACKER AND LANDOWNER NOTIFICATION REQUIREMENTS
EL CAPITAN OIL COMPANY - H19469-001
11427 WOODSIDE AV, SANTEE 920714725

This letter is to remind the primary or active Responsible Party of an Underground Storage Tank (UST) Unauthorized Release of the responsibility for the uploading of certain reports and data to the State Water Resources Control Board's (SWRCB) Geotracker geographic information system; that the County of San Diego, Department of Environmental Health, Site Assessment and Mitigation Program (SAM), will continue to require a paper copy of all reports and data submittals; and that you need to submit a letter to SAM which identifies all current record owners of fee title (owners on the title or deed) to the property where the release occurred.

In 2001, the SWRCB passed emergency regulations for the submittal of data collected at Unauthorized Release sites to Geotracker; this regulation became permanent on January 1, 2005. Below is a summary of the California Code of Regulations Title 23, Chapter 30, Article 2, regarding what data and information are required to be uploaded to Geotracker, and when the requirement became effective:

- Soil and water analyses – effective September 1, 2001
- Surveyed location of wells/borings from which samples are collected – effective January 1, 2002
- Complete reports/data, boring logs, depth of screened interval and length of well screen - effective January 1, 2005
- Submittal of electronic information replaces the requirement for submittal of paper copies, although a regulatory agency may require the submittal of a report, or portions thereof, in alternative form - effective July 1, 2005
- **SAM will continue to require a paper copy of all reports and data submittals.**
- **Please continue to submit all data elements to Geotracker. The submittal of a report does not relieve you of the responsibility for submitting the other data elements.**

For additional information related to Electronic Submittal of Information and Geotracker please see the SWRCB's web pages:

- Geotracker, Frequently Asked Questions (FAQs) web page: http://www.waterboards.ca.gov/ust/cleanup/electronic_reporting/faq.html
- Electronic Submittal of Information to Geotracker: http://www.waterboards.ca.gov/ust/cleanup/electronic_reporting/index.html

The Health and Safety Code, Section 25297.15, requires the primary or active responsible party to notify all current record owners of fee title of an Unauthorized Release Site before SAM considers proposals for cleanup, considers a proposal for site closure, or issues a site closure letter. If you are the active responsible party and the only property owner on the title, we need to receive a letter certifying that to be the case; otherwise we need a letter identifying all current record owners of fee title. If there are owners in addition to the primary responsible party, the primary responsible party must certify to SAM that the owners have been notified when a cleanup proposal or site closure proposal is made, or before SAM makes a determination that no further action is required. In addition, if property ownership changes, the primary responsible party must notify SAM of the change within 20 calendar days of being informed of the change. Please see the attached "List of Landowners Form", which will aid in providing the landowner fee title information. Faxes may be sent to (619) 338-2315.

For additional information related to Landowner Notification and Participation Requirements please see the SWRCB's web page: http://www.waterboards.ca.gov/ust/leak_prevention/lgs/158.html

SAM will not be able to close your Unauthorized Release case until all required information has been submitted to Geotracker and until proper notifications to all property owners have been made. In addition, if the required information is lacking it could impede your reimbursement from the UST Cleanup Fund.

If you have any questions, please contact me at (619) 338-2259, and faxes may be sent to (619) 338-2315.

Sincerely,

GEORGE E. McCANDLESS, Supervisor
Site Assessment and Mitigation Program

GEM:kd

Enclosure

cc: Case File - DAVID FELIX, SAM

State Water Resources Control Board

Division of Financial Assistance
1001 I Street • Sacramento, California 95814
P.O. Box 944212 • Sacramento, California • 94244-2120
(916) 341-5834♦ FAX (916) 341-5806♦ www.waterboards.ca.gov/cwphome/ustcf

Alan C. Lloyd, Ph.D.
Agency Secretary

Arnold Schwarzenegger
Governor

RECEIVED
2005 JUL 11 AM 11 02
D. C. R.
MAILROOM

A14469-001

Wigington Petroleum, Inc.
Linda Wigington
2027 Paraiso Ave
Spring Valley, CA 91977

PRE-APPROVAL OF CORRECTIVE ACTION COSTS, CLAIM NO. 000912,
SITE ADDRESS: 11427 WOODSIDE AVE, SANTEE, CA 92071

I have reviewed your request, received on June 6, 2005, for pre-approval of corrective action costs.

With the following provisions, the total cost pre-approved as eligible for reimbursement for completing the March 25, 2005, Eneco Tech workplan approved by the San Diego County DEH (County) in their April 21, 2005 letter, is **$ 40,725**; see the table below for a breakdown of costs. (The total amount that has been reimbursed and approved for payment up to this point is $ 85,290.)

Be aware that this pre-approval does not constitute a decision on reimbursement: **necessary** (as determined by the Fund) corrective action costs for action work **directed and approved by the County** will be eligible for reimbursement at costs consistent with those pre-approved in this letter.

All costs for corrective action must meet the requirements of Article 11, Chapter 16, Underground Storage Tank Regulations in order to be eligible for reimbursement.

COST PRE-APPROVAL BREAKDOWN

#	Task*	Amount Pre-Approved	Comments
1	Work Plan	$ 0	Task is unnecessary. A workplan has been prepared and approved by the County.
2	UST Fund Preapproval	$ 0	Cost already incurred.

#	Task*	Amount Pre-Approved	Comments
3	Permits	$1,161	Senior labor rate is reduced to $105/hr. Refer to the UST Cleanup Cost Guidelines. None of the expenses are preapproved. Costs for permits will be reimbursed based on the actual receipts submitted with your reimbursement request. Amount preapproved is equal to 75% of eligible corrective action costs per the 5/26/04 Revised Final Division Decision.
4	Site Assessment, Field	$28,339	Refer to task 3 comments regarding labor cost and eligible portion of corrective action costs.
5	Groundwater Monitoring	$7,523	Cost is inclusive of laboratory, waste disposal, labor and material costs. Refer to task 3 comments regarding labor cost and eligible portion of corrective action costs.
6	Site Assessment Report	$3,702	Principal labor rate is reduced to $125/hr. Reproduction cost is not preapproved. Copying cost is typically included in the billable personnel hourly rate and is duplicative of the administrative labor cost which is preapproved. Also refer to task 3 comments regarding labor cost and eligible portion of corrective action costs.
7	Fund Reimbursement Request	$ 0	Eligibility of this cost will be determined based on the content and size of the reimbursement request package submitted.
	TOTAL PRE-APPROVED	**$ 40,725**	

* Task descriptions are the same as those identified in Eneco Tech's February 8, 2005 cost estimate.

- Only the tasks/costs reflected on the above table are pre-approved at this time. The Fund will review any tasks/costs that go beyond the pre-approved amount to be determined if the additional tasks and costs are necessary and reasonable. However, if costs exceed the above pre-approved amounts, the Fund will be unable to expedite your Reimbursement Request.

- The work products must be acceptable to the County and the Regional Water Quality Control Board.

- If a different scope of work becomes necessary, then you must request pre-approval of costs on the new scope of work.

- Although I have referred to the Eneco Tech proposal in my pre-approval above, please be aware that you will be entering into a private contract: the State of California cannot compel you to sign any specific contract. This letter **pre-approves the costs** presented in the proposal dated February 8, 2005 by Eneco Tech for conducting the work approved by the County for implementing the March 25, 2005, Eneco Tech workplan.

Please remember that it is still necessary to submit the actual costs of the work as explained in the Reimbursement Request Instructions to confirm that the costs are consistent with this pre-approval before you will be reimbursed. ***Please insure that your consultant prepares their invoices to include the required breakdown of costs on a time and materials basis, that invoiced tasks are consistent with the original proposal, and that reasonable explanations are provided for any changes made in the scope of work or increases in the costs.*** *When the invoices are submitted you must include copies of all:*

- *subcontractor invoices,*
- *technical reports, when available, and*
- *applicable correspondence from the County.*

Please call if you have any questions; I can be reached at (916) 341-5834

Sincerely,

/s/

Wennilyn Fua, P.E.
Technical Review Unit
Underground Storage Tank Cleanup Fund

cc: Mr. David Felix
San Diego County DEH
P.O. Box 129261
San Diego, CA 92112

DFe

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
www.sdcounty.ca.gov/deh/lwq

RICHARD HAAS
ASSISTANT DIRECTOR

April 21, 2005

Ms. Linda Wigington
Wigington Petroleum
2027 Paraiso Avenue
Spring Valley, CA 91977

Dear Ms. Wigington:

APPROVAL OF WORKPLAN FOR ADDITIONAL SITE ASSESSMENT
11427 WOODSIDE AVENUE, SANTEE, CALIFORNIA
UNAUTHORIZED RELEASE NO. H19469-002

The workplan prepared by EnecoTech on March 25, 2005 is approved with the following qualifications:

- Soil and groundwater samples taken from, or in the immediate vicinity of, 11427 Woodside Ave. need to be analyzed for naphthalene.
- Maps generated in the next report need to show the "footprint" of structures that overlie the known or suspected groundwater plume. This will be important when evaluating the health risk posed by subsurface vapors.
- Make sure that the new data are used to update the cross sections that were presented in the Site Assessment Report of March 7, 2003.
- Please check the data and figures in the March 7 report; there are errors in reporting units on Figures 11 and 13 (possibly others) that need to be corrected.

This approval is valid for three months from the date of this letter. *Keep this letter for your records, as it may be required for corrective action cost reimbursement under California Health and Safety Code, Division 20, Chapter 6.75, Article 6.*

Call me at (619) 338-2258 if you have any questions.

Sincerely,

David Felix

DAVID FELIX, Project Manager
Site Assessment and Mitigation Program

DF:kd

cc: Michael Gibbs, EnecoTech Southwest

WP/H19469-002-405

Felix, David

From: McCandless, George
Sent: Tuesday, December 23, 2003 8:48 AM
To: Misleh, John
Cc: Felix, David; Heaton, Kevin; Vernetti, Mike; Leondis, Lisa; Munter, Llew
Subject: Abandoned water well at El Capitan Oil in El Cajon

John,

My opinion has not changed since I reviewed this issue back on October 20, 2003. Here is a copy of the message I sent.



RE: El Cap Oil
Complaint # 203...

I suggest that that you take this up with Llew Munter our Land Use Supervisor in El Cajon, I'll forward your message to Llew.

Maybe we could have someone from Land Use accompany the HMD Specialist on their next inspection, so they can view the well, take pictures etc. I suggest Scott Weldon who has Land Use and Site Assessment experience.

thanks George

-----Original Message-----
From: Misleh, John
Sent: Tuesday, December 23, 2003 8:22 AM
To: McCandless, George
Cc: Felix, David; Heaton, Kevin; Vernetti, Mike; Leondis, Lisa
Subject: FW: Fuel UDC question

Hi George,..... T
This is a follow-up on the abandoned well at **El Capitan Oil Company** in Santee, that we discussed in October 03. Below are recent photos of the old well and some strange pipes that the operator did not know what they were used for. I recommend a NOV be given to close the well by LWQD, or a site investigation by LWQD if the photos are not enough to make the call about a health threat. What do you think?

The SWRCB phoned in a complaint in October 03 about this well to DEH that we discussed with your staff. You I enclosed Lisa Leondis's complaint write-up for your information. see photos below.

<< File: El Cap Oil Complaint #2003-070301.doc >> << File: El Cap Oil photos 12-03.doc >>

John E. Misleh
Supervising Environmental Health Specialist
Hazardous Materials Division, DEH
Work Phone (858) 495-5213
Fax# (858) 694-3705

-----Original Message-----
From: Leondis, Lisa
Sent: Monday, December 22, 2003 5:29 PM
To: Misleh, John

Subject: Fuel UDC question

Please see first photo. Is UDC needed?

Lisa Leondis
Hazardous Materials Division
Phone (858) 495-5423
Fax (858) 694-3705

Felix, David

From: Misleh, John
Sent: Tuesday, December 23, 2003 8:22 AM
To: McCandless, George
Cc: Felix, David; Heaton, Kevin; Vernetti, Mike; Leondis, Lisa
Subject: FW: Fuel UDC question

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The SWRCB phoned in a complaint in October 03 about this well to DEH that we discussed with your staff. You I enclosed Lisa Leondis's complaint write-up for your information. see photos below.


El Cap Oil Complaint #2003-070...


El Cap Oil photos 12-03.doc

John E. Misleh
Supervising Environmental Health Specialist
Hazardous Materials Division, DEH
Work Phone (858) 495-5213
Fax# (858) 694-3705

-----Original Message-----
From: Leondis, Lisa
Sent: Monday, December 22, 2003 5:29 PM
To: Misleh, John
Subject: Fuel UDC question

Please see first photo. Is UDC needed?

Lisa Leondis
Hazardous Materials Division
Phone (858) 495-5423
Fax (858) 694-3705

El Capitan Oil Company Permit #19946
1427 Woodside Avenue, Santee 9207
Dates: December 11 and 18, 2003 Photographer: Lisa Leondis



Fuel dispenser operating off 55-gallon drum. Is UDC needed…?



Water well in office.

[redacted]Capitan Oil Company Permit #1994[redacted]
[redacted]1427 Woodside Avenue, Santee 9207[redacted]
Dates: December 11 and 18, 2003 Photographer: Lisa Leondis



Looking down into water well.

Complaint # 2003-07030 Regarding **El Capitan Oil Company** Permit #119469
11427 Woodside Ave. Santee, CA 92071

Action Taken:

This complaint was received from Bob Trommer of SWRCB, who was recently reviewing the file for the El Capitan Oil case. I spoke with Bob on the phone on October 14, 2003. Bob reiterated what is in his attached memo:

> There is known gasoline and diesel contamination of soil and groundwater at this site, but there has been no investigation for the presence of other contaminants. The concern is about the water well, which may have been used for illegal disposal. The well, which is a water well, but is also called MW-5 by one of the facility's consultants, is located under a board behind a desk inside an office. Free-floating product was identified in this well 14 years before it was found in any other monitoring well. A Notice of Violation was issued by DEH on May 17, 1991, for 13 drums (suspected of containing petroleum contaminated water) being illegally transported to the site. There is an inconsistency about the depth of the well, reported to be 30' and 70' on different occasions. Water depth at the site is 28'.

I spoke to Dave Felix of DEH Site Assessment and Mitigation by phone on the same day, October 14, 2003. Dave stated the following:

> **The suspect well at El Capital Oil is an un-permitted, illegal water well, and the facility is not cooperative about removing/destroying it. There is a large area of contamination centered around the building with the well.** He said that he did not see any point in taking samples from the well since it is known to be contaminated. He said it would be difficult to prove illegal disposal after so many years, especially when there is documentation of serious leaking underground storage tanks and piping at this facility.

An inspection of this facility will be scheduled. Their annual monitoring certification is overdue. This complaint is closed. No violations or responsible parties were determined.

Follow-up:

A referral will be made to George McCandless of the DEH Land & Water Quality Division regarding the illegal well.

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# 14469 -001

☑ TELEPHONE CONVERSATION

DATE 9/9/03 TIME 9 18 - 1011 LOCATION H

ATTENDEES/AGENCIES REPRESENTED *

PHONE NO. ( )

☐ PERSON CALLING/CALLED Mick Tolen - Regency Trust

☐ AGENCY REPRESENTED on behalf of El Capetan

CONVERSATION/MINUTES **

Telephone on status of case + reimbursement. I explained process with regards to drilling, do not ask for $ to drill. I suggested that P.G. needs to sign a form if wells are put on property.

I reviewed purpose of program - is not for property value enhancement. Are investigate case with contamination in place on neighboring property.

NAME

SIGNED

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

* A sign-in sheet (HM-9048) should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

** Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# 19469-001

☐ TELEPHONE CONVERSATION

DATE 6/18/03 TIME 12:00 LOCATION El Cap

ATTENDEES/AGENCIES REPRESENTED *

PHONE NO. ( )

☑ PERSON CALLING/CALLED Bob Trommer - Fund

☐ AGENCY REPRESENTED

CONVERSATION/MINUTES **

Discuss gas vs. liquid
Well in building
Possible request to sample along
AST prior to fill if they leaked
into Sheldon Pond.

Talked to Kim about well in building.
Need to order it destroyed.

NAME

SIGNED

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

* A sign-in sheet (HM-9048) should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

** Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

Felix, David

From: Felix, David
Sent: Wednesday, May 21, 2003 3:53 PM
To: 'Mikegibbs@enecotech.com'
Cc: 'ACV-ENV@cox.net'
Subject: Comments on El Capitan Work



El Cap Memo.doc

Memo to: Mike Gibbs – EnecoTech
From: David Felix – SD County DEH
May 22, 2003
By E-Mail

SUBJECT: Comments on Site Assessment Report Dated March 7, 2003

The EnecoTech report of March 7 presents the results of the Phase I assessment that was described in the Work Plan dated August 22, 2002. I expect you to proceed with Phase 2 of the work plan and install permanent monitoring wells. As noted in the work plan, these wells will serve as monitoring points and will be used to gather data to evaluate various remediation alternatives.

As I noted in my Work Plan Approval letter of September 3, 2002, cleanup will be required at this site. The cleanup goal is to eliminate environmental and human health risk. This is typically done by cleaning the soil "source" area to a level which allows the groundwater plume to "contract" under the influence of natural attenuation. Additional cleanup, or temporary engineering controls, may be necessary if excess human cancer risk is shown to be greater than 10E-6.

Although gasoline and diesel are found in soil and groundwater, cleanup will be driven by the need to reduce volatile gasoline constituents (benzene and MTBE).

Data in the March 7 report indicates that the four-compartment tank on the northeast side of the site has had a release. The high MTBE to benzene ratio in groundwater near this tank indicates a probable vapor release. I intend to open a new release case for this four-compartment tank.

cc: Linda Wigington (mail)

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

James and Judith Asbury Living Trust
2727 De Anza Rd., #SD55
San Diego, CA 92109

RE: H19469-001-503PON2 DF:kd

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) [illegible] C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

MAY 17 2003

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

7002 0510 0002 9822 9182

PS Form 3811, August 2001 Domestic Return Receipt 102595-02-M-0835

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Hurley Family Trust
Mr. Jeff Hurley – Trustee
8665 Argent Street, Ste. C
Santee, CA 92071

RE: H19469-001-503PON1 DF:kd

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) MICK LOWER C. Date of Delivery 5-8-03

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

7002 0510 0002 9822 9199

PS Form 3811, August 2001 Domestic Re

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

Hurley Family Trust
Mr. Jeff Hurley – Trustee
8665 Argent Street, Ste. C
Santee, CA 92071

Cer

Return Re (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees $

MAY 08 2003

Sent To David Felix – H19469-001-503PON1
Street, Apt. No.; or PO Box No.
City, State, ZIP+4

7002 0510 0002 9822 9199

PS Form 3800, January 2001 See Reverse for Instructions

7002 0510 0002 9822 9182

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

James and Judith Asbury Living Trust
2727 De Anza Rd., #SD55
Ce San Diego, CA 92109

Return Re. (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees $

MAY 08 2003

Sent To David Felix - H19469-001-503PONJ
Street, Apt. No.; or PO Box No.
City, State, ZIP+4

PS Form 3800, January 2001 See Reverse for Instructions

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# H19469-001

☑ TELEPHONE CONVERSATION

DATE 5/8/03 TIME 9:20-9:58 LOCATION El Capitan Oil

ATTENDEES/AGENCIES REPRESENTED *

PHONE NO. ( )

☑ PERSON CALLING/CALLED Dennis Fransway

☐ AGENCY REPRESENTED

CONVERSATION/MINUTES ** Will appeal latest SWB reimbursement decision - Must be filed by 6/9.

MTBE & Benzene will drive cleanup. I can write letter to this effect.

Tanks on east have MTBE release - probably from Vapors. I can request Tracer Tite test and open as separate case.

NAME

SIGNED

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

* A sign-in sheet (HM-9048) should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

** Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

DFe

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2315
1-800-253-9933

RICHARD HAAS
ASSISTANT DIRECTOR

NOTIFICATION OF PROPERTY OWNER ADJACENT TO A LEAKING TANK SITE THAT PROPERTY HAS BEEN IMPACTED

May 6, 2003

Hurley Family Trust
Jeff Hurley -Trustee
8665 Argent Street, Suite C
Santee, CA 92071

Dear Mr. Hurley:

OFFSITE MIGRATION OF HYDROCARBON CONTAMINATION
ORIGINATING AT EL CAPITAN OIL CO.
11427 WOODSIDE AVE., SANTEE CA
CASE H19469-001

Based on evidence of an underground storage tank leak at11427 Woodside Avenue, the San Diego County Department of Environmental Health (DEH) requested that an investigation be undertaken on that property to comply with requirements in Chapter 6.7 of the California Health and Safety Code.

The investigation has shown that hydrocarbon contamination is present in soil/groundwater close to property you own at 11421-11425 Woodside Avenue, Santee.

We are informing you of this situation in the event you have not been contacted by the party handling the investigation. Wigington Petroleum, Inc has legal responsibility to determine the extent of the contamination, and if necessary, clean it up. These activities may require access to your property and we urge you to cooperate in this matter.

At the completion of the investigation phase, DEH will make a determination on the need for cleanup. Cleanup from tank leaks is mandated when such leaks pose a threat to public health, public safety, or the water resources of the state. Under the law, tank cleanups cannot be mandated to protect or enhance property values.

If you no longer own the property at 11421 -11425 Woodside Avenue, or if you have other questions on this matter, please contact me at (619) 338-2258.

Sincerely,

David Felix

DAVID FELIX, Project Manager
Site Assessment and Mitigation Program

DF:kd
CERTIFIED/RRR
cc: Linda Wigington, Wigington Petroleum

WP/H19469-001-503PON1

AS03 38232007

* * * ASSESSOR*S PROPERTY SYSTEM * * *

382-320-07-00 SITE:11421-25 WOODSIDE AVE*\ TRA:16065
PD:2BLK 6*LOT 2*(EX ST WID)DOC75-126338 IN\ STATUS:T
ZONE:M USE:WAREHOUSING-PROCESS OR STORAGE ACRES:00002.83 S-R:

OWNR:NSNS#HURLEY FAMILY TRUST 1-7-94\
CODES: 1 DOC#:0050621 DATE:01/31/00 ZIP:92021
MAIL:1150 BROADWAY #200*EL CAJON CA\

676,260	LAND			MAP#:000817	
1,040,400	IMPS	PRIOR PN: - - -	ORIGIN	CUT#:	YR:
0	PP		REDRAFT	CUT#:	YR:
0	X	PRIOR TRA:16007	TRA	CUT#:005023	YR:03

Date: 5/5/2003 Time: 12:35:31 PM

PR

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2315
1-800-253-9933

RICHARD HAAS
ASSISTANT DIRECTOR

NOTIFICATION OF PROPERTY OWNER ADJACENT TO A LEAKING TANK SITE THAT PROPERTY HAS BEEN IMPACTED

May 6, 2003

James and Judith Asbury Living Trust
2727 De Anza Rd. #SD55
San Diego, CA 92109

Dear Trustee:

OFFSITE MIGRATION OF HYDROCARBON CONTAMINATION
ORIGINATING AT EL CAPITAN OIL CO.
11427 WOODSIDE AVE., SANTEE, CA
CASE H19469-001

Based on evidence of an underground storage tank leak at11427 Woodside Avenue, the San Diego County Department of Environmental Health (DEH) requested that an investigation be undertaken on that property to comply with requirements in Chapter 6.7 of the California Health and Safety Code.

The investigation has shown that hydrocarbon contamination is present in soil/groundwater close to property you own at 11433-11445 Woodside Avenue, Santee.

We are informing you of this situation in the event you have not been contacted by the party handling the investigation. Wigington Petroleum, Inc has legal responsibility to determine the extent of the contamination, and if necessary, clean it up. These activities may require access to your property and we urge you to cooperate in this matter.

At the completion of the investigation phase, DEH will make a determination on the need for cleanup. Cleanup from tank leaks is mandated when such leaks pose a threat to public health, public safety, or the water resources of the state. Under the law, tank cleanups cannot be mandated to protect or enhance property values.

If you no longer own the property at 11433 -11445 Woodside Avenue, or if you have other questions on this matter, please contact me at (619) 338-2258.

Sincerely,

David Felix

DAVID FELIX, Project Manager
Site Assessment and Mitigation Program

DF:kd
CERTIFIED/RRR
cc: Linda Wigington, Wigington Petroleum

WP/H19469-001-503PON2

AS08 38232005

* * * ASSESSOR*S PROPERTY SYSTEM * * *

382-320-05-00 SITE:11433-45 WOODSIDE AVE*\ TRA:16074
PD:2BLK 6*LOTS 1&2*(EX ST WID)DOC76-183581 IN\ STATUS:T
ZONE:M USE:WAREHOUSING-PROCESS OR STORAGE ACRES:00001.40 S-R:

OWNR:NSNS#ASBURY JAMES&JUDITH LIVING TRUST A 05-05-98\
CODES: 1 DOC#:0701573 DATE:08/19/02 ZIP:92109
MAIL:2727 DE ANZA RD #SD55*SAN DIEGO CA\

92,436	LAND			MAP#:000817	
588,456	IMPS	PRIOR PN: - - -	ORIGIN	CUT#:	YR:
0	PP		REDRAFT	CUT#:	YR:
0	X	PRIOR TRA:16036	TRA	CUT#:005023	YR:03

H19469-001
April 29, 2003
Call from Jeff Hurley
Hurley Family Trust – Owner of property to south of El Capitan
(11421 Woodside)
8665 Argent St Suite C Santee 92071 ← GETS MAIL AT

He asked about status and scope of problem at El Capitan.
He has received an offer to buy his property.
I reviewed conditions, including problem with 50% reimbursement.
I said:

I would be sending letters to impacted neighbors.
It will speedup process if he cooperates with El Capitan by allowing assessment/cleanup wells on his property.
I estimate cleanup will take years.
File is open to review.

David Felix

Winston H. Hickox
Secretary for Environmental Protection

State Water Resources Control Board

Division of Financial Assistance
1001 I Street • Sacramento, California 95814
P.O. Box 944212 • Sacramento, California • 94244-2120
(916) 341-5661 • FAX (916) 341-5806 • www.swrcb.ca.gov/cwphome/ustcf

Gray Davis
Governor

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.swrcb.ca.gov

APR - 9 2003

RECEIVED
2003 APR 14 AM 9 1
D.E.H.
MAILROOM

Ms. Linda Wigington
Wigington Petroleum, Inc.
11427 Woodside Avenue
Santee, CA 92071

Dear Ms. Wigington:

UNDERGROUND STORAGE TANK (UST) CLEANUP FUND (FUND); FUND MANAGER DECISION REGARDING ELIGIBLE COSTS; CLAIM NUMBER 912; FOR SITE ADDRESS: 11427 WOODSIDE AVENUE, SANTEE, CA

This letter is in response to a letter from Mr. Michael Gibbs of EnecoTech dated March 14, 2003, regarding the decision by Fund staff to allow only 50 percent of past and future costs for corrective action to be reimbursed. This decision was based on the observation that up to thirteen aboveground storage tanks (ASTs), currently or in the past, have been located at your site. These tanks stored oil, diesel, kerosene and solvent. Cost for corrective action related to petroleum releases from ASTs and the associated piping and fuel dispensers is not eligible for reimbursement from the Fund.

After evaluation of the additional documentation provided by EnecoTech, the available documentation in your claim file including the type of petroleum stored, the location of piping and dispensers associated with the ASTs and the nature and extent of the petroleum contamination identified at your site to date, I have decided to uphold the staff decision. The basis of my decision is discussed below.

EnecoTech argues that none of the single wall ASTs ever held gasoline and that is the petroleum contaminant that will drive future assessment and cleanup. I agree that the ASTs did not contain gasoline but I reject the argument that the presence of diesel in the soil and groundwater at this site can be discounted. Review of the sampling results for your site indicates that diesel is just as widespread as gasoline and at generally much higher concentrations than the gasoline contamination in the soil and groundwater at your site.

EnecoTech also states that because many USTs at your site have been replaced or removed but only one AST containing propane has been removed, this demonstrates that the petroleum present in the subsurface at your site can reasonably be attributed to the USTs. I fail to see the logic in this statement. The decision to remove, upgrade or replace the USTs was most likely driven by the need to comply with UST retrofit regulations, while the replacement of the ASTs was not.

I have reviewed all the information in our files as well as the additional information provided by EnecoTech as to the current and historic location of product piping and dispensers associated with the ASTs at your site. My review found that AST T-2 (identified by EnecoTech as T-12), located in the central portion of your site, contained diesel and was connected by underground piping to dispensers 2 through 5 (identified by EnecoTech as 3-4, 5-6, 7-8 and 9-10) located in the northern portion of your site. Piping diagrams submitted in 1995 as part of a permit application, also revealed that dispensers identified by EnecoTech as 1-2 and 15-16, located in the northern portion of the property were connected by a long run of underground piping to a diesel AST, located in the southern portion of your site. The same piping diagrams revealed that the ASTs identified by EnecoTech as T-12, T-13 and T-14 were connected to dispensers identified by EnecoTech as 19-20, 18S-21, 22-23 and 24-25. These dispensers are located on three separate fuel islands located in the central and southern portions of your property.

The highest concentrations of diesel in the groundwater at your site are located downgradient from the ASTs and associated piping and dispensers located in the central potion of your site. In addition, the highest concentration of diesel in any monitoring well at your site is in monitoring well MW-3 located adjacent to AST product piping and immediately downgradient from dispenser 19-20. This well, located in the central portion of your site, also has measurable free product.

Your original application to the Fund stated that several surface spills have historically occurred at your site.You specifically mentioned a 6,000-gallon spill of kerosene and several diesel spills. The cost for corrective action to remediate the effects of surface spillage of petroleum is not eligible for reimbursement from the Fund. The kerosene spill is substantiated by a telecom by Mr. David Felix from the San Diego Department of Environmental Health (SDDEH) dated March 7, 1991. The telecom documents a telephone conversation with Mr. York Himerdinger, Wholesale Manager for Wright Oil. Mr. Himerdinger stated that the facility had suffered a kerosene release that had not been reported. EnecoTech has argued that because Mr. Himerdinger and other employees had recently been terminated, this report should be disregarded. I reject this argument.

I am also concerned that the 12" well that was discovered in 1988 within the main building at your site may be a source of groundwater pollution. At the time of discovery, this well had an appreciable amount of free product in it. EnecoTech stated in an Environmental Assessment Report that "*It is felt at this time that the product represents retention in the well and does not reflect HC's (hydrocarbons) present in the adjacent formation*". EnecoTech's conclusion that the free product did not come from the adjacent formation would appear to indicate that the free product may be the result of disposal of hydrocarbons into the well. My review also revealed that none of the other wells at your site had any measurable free product until 2002. In addition, a telecom dated April 30, 1991 documents a telephone conversation between Ms. Christina Graulau and Mr. Ben Franklin from SDDEH, the subject of which was a complaint received that

13 to 14 drums suspected of containing petroleum contaminated water had been taken to Wright Oil Company. These drums had apparently originated from a site in Escondido and there were concerns by the California Highway Patrol that there may have been possible transportation and disposal violations. Mr. Ben Franklin from SDDEH, subsequently issued a Notice of Violation on May 17, 1991, for 13 drums deposited at your facility. Please be aware that if it is determined that unauthorized disposal occurred at the 12" well or anywhere else on your property, the cost for corrective action to remediate the effects of the unauthorized disposal would not be eligible for reimbursement from the Fund.

Finally, I am also concerned with the presence of high concentrations of diesel and gasoline constituents in monitoring well MW-2. This well is located adjacent to your eastern property boundary and upgradient of any USTs or ASTs. If the contamination identified in this well is found to be originating from an adjacent property, the cost to remediate this contamination would not be eligible for remediation from the Fund.

In summary, based on the presence of the ASTs and associated piping and dispensers that are located across your site, the widespread occurrence of diesel contamination in the soil and groundwater and the alleged surface spillage that historically occurred at your site, I find that only 50% of all past and future corrective action costs can reasonably be attributed to unauthorized releases from the USTs at your site. In addition, the Fund reserves the right to reevaluate this decision if additional information becomes available regarding the other concerns that I have addressed in this letter.

This represents a Fund Manager Decision. If you are not in agreement with the above decision, you may request a Final Division Decision by the Chief of the Division within 60 days of the date of this letter. If you do not request a Final Division Decision within those 60 days, this decision will become final and conclusive. The request should be sent to:

Barbara L. Evoy, Chief
Division of Financial Assistance
State Water Resources Control Board
P.O. Box 944212
Sacramento, CA 94344-2120

USTCF Claim # 912

The request to the Chief of the Division must include, at a minimum: (1) A statement describing how the claimant is damaged by the prior staff decision. (2) A description of the remedy or outcome desired. (3) An explanation and supporting documentation of why the claimant believes the action or the decision is erroneous, inappropriate or improper.

If you have any questions regarding this letter, please telephone Mr. Bob Trommer at (916) 341-5684.

Sincerely,

Allan V. Patton, Manager
UST Cleanup Fund

cc: Mr. David Felix
County of San Diego, Department of Environmental Health
P.O. Box 129261
San Diego, CA 92112-9261

Mr. Michael Gibbs
EnecoTech
6160 Fairmount Avenue, Suite A
San Diego, CA 92120

Call from David Charter
UST Fund
3-22-04
Re: Wigington Petroleum Appeal

He reviewed Fund's arbitrary decision to allocate 50% of contamination to diesel AST piping. DC says he has seen other AST – UST "commingled" leaks and allocation of $ has been done. DC wanted to confirm that cleanup would be driven by benzene and MTBE. I said yes, we use risk-based philosophy and it would be very unusual for diesel to pose a risk. Even diesel product might be left in place. On this site I still need to see full extent because SD River alluvium is downgradient and there are production wells in the river alluvium (although they are upgradient of the possible intersection of the plume with the river). If GW contamination was limited to below the roads, and plume was stable, the possibility of cleanup would be low. But I do not have the offsite assessment data that was collected. At this point, more assessment might be needed. If monitoring showed plume still expanding, cleanup and/or control would be likely.

I noted that we, and he, are in the UST program. We have not asked for investigation of AST's - no authority. Our RWB reviewed all AST's in county a few years ago and found some problems. We gave up some UST cases to the RWB if there was also an AST release on the site. This allowed an integrated assessment/cleanup by the RWB. RWB did not indicate any problem with Wigington site.

I noted that real estate value finally got this case moving. I don't like to see it stall because of reimbursement problem.

EnecoTech Southwest, Inc.
6160 Fairmount Ave. • Suite A
San Diego, CA 92120
(619) 299-0033 • Fax (619) 299-0087
Lic. #A-773774

EnecoTech
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITY

March 14, 2003

Project 1686-001

RECEIVED
2003 MAR 20 AM 11:59
D. E. H.
MAILROOM

Mr. Alan Patton
State Water Resources Control Board, Division of Clean Water Programs
UST Cleanup Fund
1001 I Street, 17th Floor
P.O. Box 944212
Sacramento, CA 94244-2120

RE: Appeal of October 10, 2002 Fund Decision Reducing Reimbursement Eligibility to 50%
Claim Number 0009912, 11427 Woodside Avenue, Santee, CA

Dear Mr. Patton:

EnecoTech Southwest, Inc. (EnecoTech) herein respectfully submits this appeal to the Underground Storage Tank Cleanup Fund (Fund) regarding the decision to reduce reimbursement eligibility at the subject site located at 11427 Woodside Avenue in Santee, California. EnecoTech is submitting this appeal on behalf of our client, Wigington Petroleum, Inc.

EnecoTech has completed Phase I of the Comprehensive Site Assessment that was approved by the Local Oversight Program (LOP) and the Fund. A copy of the report detailing the findings has been attached as the basis for this appeal.

In summary, the extensive research conducted by EnecoTech resulted in no reliable evidence indicating that any of the ASTs onsite or the associated piping has ever had a release. None of the single-walled ASTs or ASTs with piping ever held gasoline, the product responsible for the constituents (principally benzene and MTBE) that, according to the LOP, will drive future efforts for assessment and clean up. In contrast, the USTs onsite have many direct and indirect evidences of release of gasoline and diesel. Many of the USTs onsite have been replaced or removed. The only AST ever replaced onsite held propane and was part of a facility upgrade.

Based on the information researched and reviewed, there remains no reason to attribute any of the impact onsite to the ASTs. All of the impact can reasonably be attributed to the USTs and associated piping. Although a possibility of AST contribution exists, the probability has been disproved.

Finding no basis for anything less, EnecoTech therefore recommends reinstating the reimbursement eligibility for the subject claim to 100%.

Portions of the attached report that are pertinent to the UST/AST contribution issue have been highlighted in the right margin. If you have any questions please contact me at (619) 299-0033 or (619) 417-9400. Thank you for your attention to this matter.

Sincerely,
EnecoTech, Southwest, Inc.

for Michael J. Gibbs, RG 4821
Senior Geologist

Recycled Paper
N://1686001/bg015/FUND letter with comprehensive sa report.doc
March 13, 2003

H19469-001 Created report of 3/7/03

Errors

~~Fig 4~~ ~~No units~~

Fig 11, 13 Units are wrong (mg/kg)

Section 3.5.4 F.P. thickness in inches should say feet

~~Do we need~~ ?

I will notify impacted P.O.'s

Send email for 100% reimbursement

Appendices Good

EL CAPITAN OIL H19469-001 SITE VISIT/EnecoTech Drilling 12-4-02

HP drilling with Strataprobe per workplan. Temp. 1" wells placed in probe holes. Edward Kontos overseeing work. Sampling locations are marked out on west side of SR 67. 6 photos.

EnecoTech Southwest, Inc.
6160 Fairmount Avenue • Suite A
San Diego, California 92120
(619) 299-0033 • Fax (619) 299-0087
Lic. #A-773774

EnecoTech
Strategies for Environmental Responsibility

Edward Kontos
Staff Scientist
edkontos@EnecoTech.com

EL CAPITAN OIL H19469-001 DWF 12-4-02



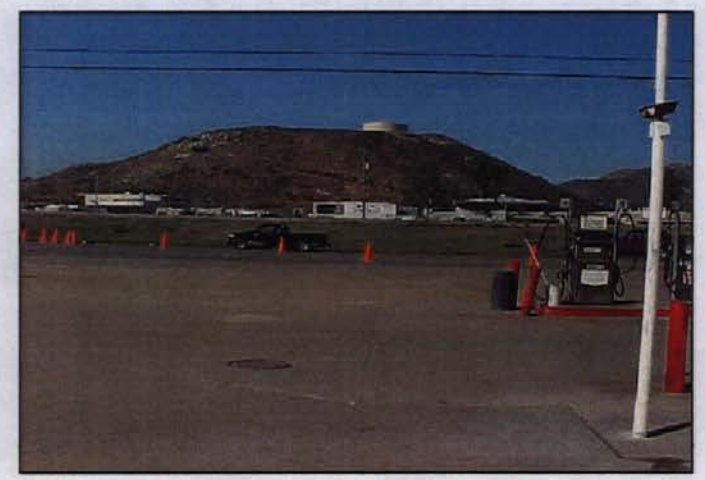
Temporary 1" well casing in Strataprobe hole



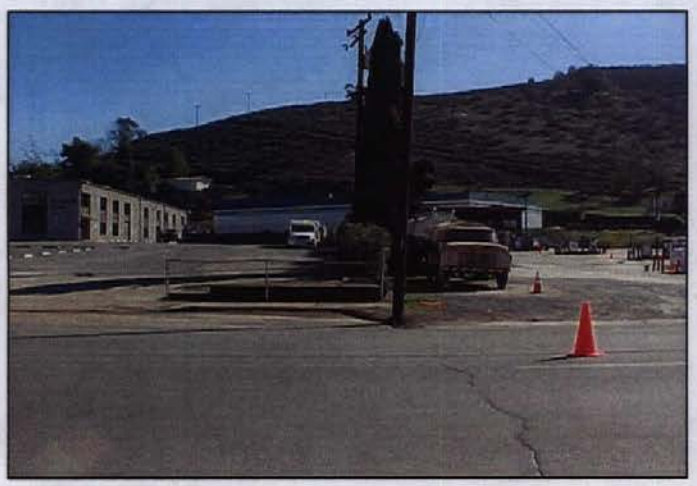
Looking east along South property line. El Cap on left.



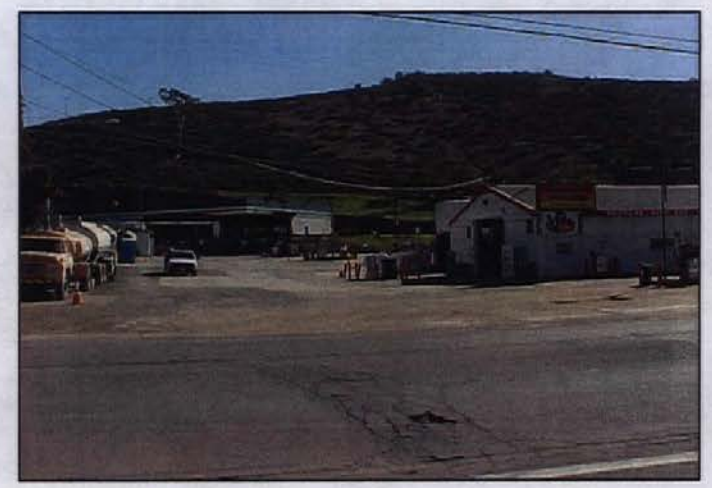
Looking east along south side of El Cap



Looking to northwest across SR 67. SD River behind buildings in distance



Looking SE along NE property line. El Cap on right



Toward rear of El Cap site along NE side. UST's under pickup truck

EnecoTech Southwest, Inc.
6160 Fairmount Ave. • Suite A
San Diego, CA 92120
(619) 299-0033 • Fax (619) 299-0087
Lic. #A-773774

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITY

RECEIVED
2002 NOV 27 AM 9 31
D. E. H.
MAILROOM

Project 1686-001 (011)

November 25, 2002

Mr. James Asbury
3552 Fowler Canyon Road
Jamul, CA 91935

RE: Permission to Access Your Property
11433 Woodside Avenue in Santee, CA

Dear Mr. Asbury:

As you know, during our telephone conversation on November 15, 2002, I requested access to your property at 11433 Woodside Avenue in Santee, California, to place 2 to 4 borings in your southwestern parking lot. These borings are needed in order to evaluate the extent of the release from the El Capitan Oil facility south of you. The borings will be only 2 inches in diameter, completed in a single day, and the minor holes created would be repaired in your asphalt parking lot to your satisfaction.

As I told you over the telephone, Ms. Linda Wigington (Client), has retained EnecoTech Southwest, Inc. to complete the process of delineation of the hydrocarbon release so that any remedial actions deemed necessary by the County of San Diego, Department of Health Services (DEH) can be implemented with the ultimate goal of obtaining site closure. It is possible that the release extends beneath your property and the only way of evaluating the presence and extent of any plume there is by drilling and sampling.

The next scheduled fieldwork that will include drilling on the El Capitan facility and the public right of way (Woodside Avenue) is to begin Tuesday, December 3, 2002. It would be best if we could access your property at that time. However, if this notice has been too short, please contact me so we can arrange for another period more convenient for you.

Thank you for your consideration of this issue. I look forward to hearing from you.

Sincerely,
EnecoTech Southwest, Inc.

for Michael J. Gibbs
Senior Geologist

Cc: Mr. David Felix, DEH

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# 19469-001

☑ TELEPHONE CONVERSATION

DATE 11/20/02 TIME 10:06 LOCATION El Capitan Pittsburg

ATTENDEES/AGENCIES REPRESENTED *

PHONE NO. ( )

☑ PERSON CALLING/CALLED Michael Gibbs

☐ AGENCY REPRESENTED

CONVERSATION/MINUTES ** Owners to N + S will grant agree access for drilling. I said send written request by R. mail - if no response we have procedures to encourage their cooperation. Caltrans says MW's must be removed by 12/21. - OK

Caltrans says no drilling on/along highway unless there is no other way to get into. - For new drill on W. side of highway then evaluate need for sleeves in wells.

M.C. has researched DST products - none that would contribute to Benz or MTBE which are the basis for cleanup. I said to include info in S.A.R. I can write letter to fund if necessary.

NAME

SIGNED

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

* A sign-in sheet (HM-9048) should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

** Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

H19469-007

State Water Resources Control Board

Division of Clean Water Programs
1001 I Street • Sacramento, California 95814
P.O. Box 944212 • Sacramento, California • 94244-2120
(916) 341-5684 • FAX (916) 341-5806 • www.swrcb.ca.gov/cwphome/ustcf

Winston H. Hickox
Secretary for Environmental Protection

Gray Davis
Governor

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.swrcb.ca.gov.

October 10, 2002

Ms. Linda Wigington
Wigington Petroleum, Inc.
11427 Woodside Avenue
Santee, CA 92071

PRE-APPROVAL OF CORRECTIVE ACTION COSTS, CLAIM NO. 000912,
SITE ADDRESS:11427 WOODSIDE AVENUE, SANTEE , CA

I have reviewed your request, received on September 9, 2002, for pre-approval of corrective action costs. I have included a copy of the "Cost Pre-Approval Request" form; please use this form in the future for requesting pre-approval of corrective action costs.

With the following provisions, the total cost pre-approved as eligible for reimbursement for completing the August 22, 2002, EnecoTech workplan approved by the San Diego County Department of Environmental Health in their September 3, 2002 letter, is **$ 50,892**; see the table below for a breakdown of costs. (The total amount that has been reimbursed and approved for payment up to this point is .)

Be aware that this pre-approval does not constitute a decision on reimbursement: **necessary** (as determined by the Fund) corrective action costs for action work **directed and approved by the County** will be eligible for reimbursement at costs consistent with those pre-approved in this letter. However, depending on what happens in the field, some costs may not actually be necessary. If the Fund agrees that they were in fact necessary, the Fund will reimburse at reasonable rates (rates consistent with those pre-approved.)

In an effort to expedite future reimbursement requests associated with the implementation of the corrective action tasks pre-approved in this letter, we ask that the attached 'Pre-Approval Specific Reimbursement Request Form' be completed, updated and submitted with each reimbursement request. All relevant supporting documentation must also be included with each reimbursement request.

In order for future costs for corrective action to be part of the expedited reimbursement process, they must be pre-approved in writing by Fund staff.

All costs for corrective action must meet the requirements of Article 11, Chapter 16, Underground Storage Tank Regulations in order to be eligible for reimbursement.

COST PRE-APPROVAL BREAKDOWN

#	Task	Amount Pre-Approved	Comments
1	Preparation of Work Plan and Phase 1 of Site Investigation	$26,289	Preparation of Work Plan is already completed. The Fund does not pre-approve costs for work already completed. The remainder of costs for this task are pre-approved at 50% in accordance with the 10/10/02 letter notifying claimant that due to the presence of multiple ineligible ASTs at this site, only 50% of corrective action costs can be attributed to releases from the USTs.
2	Phase 2 of Site Investigation	$24,603	Costs for this task are pre-approved at 50% in accordance with the 10/10/02 letter notifying claimant that due to the presence of multiple ineligible ASTs at this site, only 50% of corrective action costs can be attributed to releases from the USTs.
	TOTAL PRE-APPROVED	**$ 50,892**	

- Only the tasks/costs reflected on the above table are pre-approved at this time. The Fund will review any tasks/costs that go beyond the pre-approved amount to be determined if the additional tasks and costs are necessary and reasonable. However, if costs exceed the above pre-approved amounts, the Fund will be unable to expedite your Reimbursement Request.

- The work products must be acceptable to the County and the Regional Water Quality Control Board.

- If a different scope of work becomes necessary, then you must request pre-approval of costs on the new scope of work.

- Although I have referred to the EnecoTech proposal in my pre-approval above, please be aware that you will be entering into a private contract: the State of California cannot compel you to sign any specific contract. This letter **pre-approves the costs** as presented in the proposal dated September 5, 2002 by EnecoTech for conducting the work approved by the County for implementing the August 22, 2002, EnecoTech workplan.

I also want to remind you that the Fund's regulations require that you obtain at least three bids, or a bid waiver from Fund staff, from qualified firms for all necessary future corrective action

work. If you need assistance in procuring contractor and consultant services, don't hesitate to call me.

Please remember that it is still necessary to submit the actual costs of the work as explained in the Reimbursement Request Instructions to confirm that the costs are consistent with this pre-approval before you will be reimbursed. ***Please insure that your consultant prepares their invoices to include the required breakdown of costs on a time and materials basis, that invoiced tasks are consistent with the original proposal, and that reasonable explanations are provided for any changes made in the scope of work or increases in the costs.*** *When the invoices are submitted you must include copies of all:*

- *subcontractor invoices,*
- *technical reports, when available, and*
- *applicable correspondence from the County.*

Please call if you have any questions; I can be reached at (916) 341-5684.

Sincerely,

Robert Trommer, Chief, Technical Review Unit
Technical Review Unit
Underground Storage Tank Cleanup Fund

Enclosure

cc: Mr. David Felix
San Diego County Department of Environmental Health
P.O. Box 129261
San Diego, CA 92112-9261

Ms. Melissa Novak
EnecoTech Southwest, Inc.
6160 Fairmount Avenue, Ste. A
San Diego, CA 92120

RECEIVED
2002 OCT 23 AM 8 44
D.E.H.
MAILROOM

H1094G9-001

State Water Resources Control Board

Division of Clean Water Programs
1001 I Street • Sacramento, California 95814
P.O. Box 944212 • Sacramento, California • 94244-2120
(916) 341-5684 • FAX (916) 341-5808 • www.swrcb.ca.gov/cwphome/ustcf

Winston H. Hickox
Secretary for Environmental Protection

Gray Davis
Governor

RECEIVED
2002 OCT 21 PM 8 56
CUSD MAILROOM

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our website at www.swrcb.ca.gov

OCT 10 2002

Ms. Linda Wigington
Wigington Petroleum, Inc.
11427 Woodside Avenue
Santee, CA 92071

Dear Ms. Wigington:

UNDERGROUND STORAGE TANK (UST) CLEANUP FUND (FUND); DETERMINATION OF ELIGIBLE COSTS: CLAIM NUMBER 912; FOR SITE ADDRESS: 11427 WOODSIDE AVENUE, SANTEE, CA

Based on a review of the file for this claim, Fund staff has noted that up to thirteen aboveground storage tanks (ASTs) currently or in the past have been located at your site. These tanks stored oil, diesel, kerosene and solvent. Cost for corrective action related to petroleum releases from ASTs and the associated piping and fuel dispensers is not eligible for reimbursement from the Fund. After evaluation of available documentation in your claim file, including the type of petroleum stored, the storage capacity of the ASTs and USTs, and the nature and extent of the petroleum contamination identified at your site to date, the Fund has determined that only 50% of past and future corrective action costs can be attributed to petroleum releases from the USTs at your site. Consequently, all past reimbursements and all future cost pre-approvals and reimbursement requests will be adjusted to reflect the 50% cost eligibility determination.

If you have any additional documentation that you believe would submit a contention that the 50% cost eligibility determination is incorrect, you may submit it to the Fund for reconsideration. If you have any questions, you may contact me at (916) 341-5684.

Sincerely,

Robert Trommer CHG
Chief, Technical Review Unit
Underground Storage Tank Cleanup Fund

cc: Mr. David Felix
County of San Diego, Department of Environmental Health
P.O. Box 129261
San Diego, CA 92112-9261

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

RICHARD HAAS
ASSISTANT DIRECTOR

September 16, 2002

Mr. Gary Gilbreath
State of California
Department of Water Resources
Southern Division
770 Fairmont Avenue
Glendale, CA 91203

Dear Mr. Gilbreath:

WELL SURVEY
EL CAPITAN PETROLEUM
11427 WOODSIDE AVE, SANTEE, CA
DEH CASE #H19469-001

Wigington Petroleum, as the Responsible Party (RP), has been directed by the County of San Diego Department of Environmental Health (DEH), Site Assessment and Mitigation Program to perform a sensitive receptor survey in the area surrounding the site at11427 Woodside Ave, Santee, CA. The DEH has been given the authority as the Local Oversight Program by the State of California Water Resources Control Board to oversee the environmental assessment of the site. In order to complete the DEH directive to conduct the receptor survey, EnecoTech Southwest, environmental consultant for Wigington Petroleum, requires access to your well completion files.

Please provide EnecoTech Southwest, with the well information requested. The following is the contact information for the RP and the consultant:

Responsible Party

Name Wigington Petroleum
Address 11427 Woodside Ave
Santee, CA 92071

Environmental Consultant

Name EnecoTech Southwest
Address 6160 Fairmount Ave
Suite A, San Diego, CA 92120
Phone No: 619/299-0033

It is our understanding that the RP and the environmental consultant will use this information for the sole purpose of performing a sensitive receptor survey, and that the well logs will be kept confidential.

If you have any questions, please call me at (619) 338-2258.

Sincerely,

David Felix

DAVID FELIX, Project Manager
Site Assessment and Mitigation Program

DF:kd

WP/H19469-001

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

RICHARD HAAS
ASSISTANT DIRECTOR

September 3, 2002

Mrs. Linda Wigington
Wigington Petroleum
11427 Woodside Ave.
Santee, CA 92071

Dear Mrs. Wigington:

WORKPLAN APPROVAL FOR ASSESSMENT AT
11427 WOODSIDE AVE, SANTEE, CA 92071
UNAUTHORIZED RELEASE H19469-001

EnecoTech Southwest has submitted a workplan dated August 21, 2002, for assessment of hydrocarbon contamination, which originates at 11427 Woodside Ave. The work will be done in two phases. An initial survey of soil and groundwater conditions will utilize push-in sample technology. After evaluation of the results, permanent monitoring wells will be installed.

The workplan is approved with the following qualifications to Phase I, Task 2. The following two items can be included in any cost estimates, but they do not need to be fully implemented at this time:

1. Property ownership identification does not have to extend a half-mile from the site. At this time, it will be sufficient to identify property owners immediately adjacent to the El Capitan facility, and those on the opposite side of State Route 67.

2. The Field Well Search can be limited to the same parcels as in item 1. When contaminant distribution has been defined at the end of Phase 1, the area requiring field examination for supply wells can be better delineated.

The presence of supply wells is one of the items we consider when determining the need for site cleanup. Because this site is in a "sensitive aquifer" where ground water is being used, a cleanup will be required.

This approval is valid for 180 days.

Call me at (619) 338-2258 if you have questions or comments.

Sincerely;

David Felix

DAVID FELIX, Project Manager
Site Assessment and Mitigation Program

DF:kd

cc: Michael Gibbs – EnecoTech Southwest

EnecoTech Southwest, Inc.
6160 Fairmount Ave. • Suite A
San Diego, CA 92120
(619) 299-0033 • Fax (619) 299-0087
Lic. #A-773774

EnecoTech
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITY

RECEIVED
2002 AUG 27 AM 7 43
D. E. H.
MAILROOM

Project 1686-001

August 23, 2002

Mr. Gary Gilbreath
State of California
Department of Water Resources
770 Fairmount Avenue
Glendale, California 91203

RE: Sensitive Receptor Survey
El Capitan Oil
11427 Woodside Avenue, Santee, California
APN 382-320-06
DEH Case Number: H19469-001

Mr. Gilbreath:

EnecoTech Southwest Inc. (EnecoTech), as the agent for El Capitan Oil, has been directed by the County of San Diego Department of Environmental Health (DEH) Site Assessment and Mitigation Division to conduct a sensitive receptor survey of the area surrounding the subject site located at 11427 Woodside Avenue, Santee, California. The DEH has been given authority as the Local Oversight Program by the State of California Water Resources Control Board to oversee the environmental assessment of the site. In order to comply with the DEH directive to conduct the sensitive receptor survey, EnecoTech requires access to the Department of Water Resources well completion files.

EnecoTech requests well completion reports or well logs for wells located within a 1-mile radius of the subject site. The area of interest is found on the El Cajon Quadrangle, Township 15 South, Range 1 West, Sections 13, 14, 15, 22, 23, 24, 25, 26, and 27.

EnecoTech will use the information for the sole purpose of conducting the sensitive receptor survey. None of the well reports or well logs will be included in reports produced by EnecoTech.

If you have any questions or concerns regarding this request please contact the undersigned at (619) 299-0033.

Sincerely,
ENECOTECH SOUTHWEST, INC.

Edward Kontos
Staff Scientist

Cc: Dave Felix – County of San Diego DEH



dwf 8-16-02 Possible well to northeast of A-1 Storage near H19469



Possible well on property northeast of A1 Storage facility. 8-16 02 DWF

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

NEWS RELEASE

Department of Toxic Substances Control

T - 16 - 02
July 17, 2002
For Immediate Release

Contact: Jeanne Garcia
818.551.2176
Ron Baker
916.324.3142

Settlement Reached with El Capitan Oil Company

San Diego --- The California Department of Toxic Substances Control (DTSC) today announced a settlement with El Capitan Oil Company that requires the company to send one of its employees to California Compliance School in lieu of paying a $4,720.00 penalty. The terms of the settlement are described in a Consent Order (Order) that was fully executed on June 7, 2002.

"Ensuring compliance is the first defense in protecting the public from the dangers associated with hazardous waste and fosters positive hazardous waste management practices," said Ed Lowry, DTSC Director.

The Order resolves violations alleged as a result of an August 3, 2001 complaint inspection of the facility located at 11427 Woodside Avenue in Santee. DTSC inspectors cited the company for accepting waste oil from off-site customers in quantities more than 20 gallons per shipment and storing the oil in a 550 gallon above ground tank without a permit or authorization from the DTSC.

El Capitan Oil Company is an independently owned gas/fuel station and a motor/lube oil distributor. The company was acquired by Attisha Enterprise in July 2001. The practice of accepting more than 20 gallons per shipment of waste oil from off-site customers was a continuation of the operations of the previous owner.

The California Compliance School is a joint effort between DTSC and the California Community Colleges' is designed to help facilities achieve and maintain compliance with state hazardous waste laws and regulations.

###

The Department of Toxic Substances Control's mission is to restore, protect, and enhance the environment and ensure public health, environmental quality and economic vitality by regulating hazardous waste, conducting and overseeing cleanups, and developing and promoting pollution prevention.

###

"The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov."

FROM M. GIBBS 7/5/02

DEPTH (FT.)	TPH	BENZENE	MTBE
25	<1.0	<0.0050	<0.035
30.5	<1.0	<0.0050	<0.035
31	<1.0	<0.0050	<0.035
31.5	<1.0	<0.0050	<0.035
32.5	<1.0	<0.0050	<0.035
33	230	0.59	<1.4
34	51	<0.20	<1.4
34.5	3,800	7.7	<1.4
35.5	480	1.4	<3.5
36	<1.0	<0.0050	<0.035
37	470	93	<3.5
37.5	<1.0	<0.0050	<0.035
38.5	110	0.25	<1.4
39	<1.0	<0.0050	<0.035
39.5	<2.5	<0.012	<0.088

DEPTH (FT.)	TPH	BENZENE	MTBE
20	2.1	0.15	0.023
25	5.8	<0.0050	<0.005
30	5,900	11	0.220
35	410	0.43	0.570
40	210	<0.40	9.466

DEPTH (FT.)	TPH	BENZENE	MTBE
25	21	<0.020	0.14

CALTRANS

RIGHT OF WAY

WOODSIDE AVENUE

SWALE

SWALE

TELEPHONE POLE

TELEPHONE POLE

A

A'

B

B'

MW1

MW2

MW3

MW4

MW5

MW6

MW7

MW8

SIGN

SEWER MANHOLE

SS

SS

SS

D UL D D UL P

Former Dispenser (D) (maybe UL?)

Truck Gas

CONCRETE

Gas

12" COVER

Kerosine

12" COVER

waste oil

TRUCK PASS THROUGH

S K

AST SECONDARY CONTAINMENT

PROPANE AST

waste oil?

CONCRETE

GRAVEL

Newer

GRAVEL

All Newer

VENTS

MW2

PROPERTY LINE

Specialty Gas

Newer

UL+P D

Newer

D D

CONCRETE

Newer

UL+P D

SHED

MATCHLINE A–A'

A

A'

Diesel + Gas

PROPERTY LINE

4' HIGH BLOCK WALL

MATCHLINE A–A'

A

A'

ELEVATED PLATFORM
55 GAL. DRUM STORAGE

Motor oils + Mineral Spirits

TELEPHONE POLE

Gasoline

Diesel

Kerosine

Gas Former Use

VENTS

0 15 30

SCALE IN FEET

LEGEND

- MONITORING WELL WITH ENECOTECH DESIGNATION
- D UL D D UL P – DISPENSER ISLAND WITH DISPENSERS AND PRODUCT TYPE
- D – DIESEL
- UL – UNLEADED
- P – PREMIUM
- T – TRICK GASOLINE
- S – SOLVENT
- K – KEROSENE
- UNCHANGED UST (LOCATION APPROXIMATE)
- UST REMOVED IN 1988 (LOCATION APPROXIMATE)
- UST REMOVED IN 1998 (LOCATION APPROXIMATE)
- UST ALSO REPLACED IN 1998 (LOCATION APPROXIMATE)
- ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- SS – SANITARY SEWER
- W – WATER SUPPLY
- FENCE
- CONCENTRATIONS IN mg/kg

DEPTH (FT.)	TPH	BENZENE	MTBE
25	21	<0.0020	0.14

NOTE:
ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

EnecoTech
ENVIRONMENTAL CONSULTANTS

Project: WIGINGTON

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

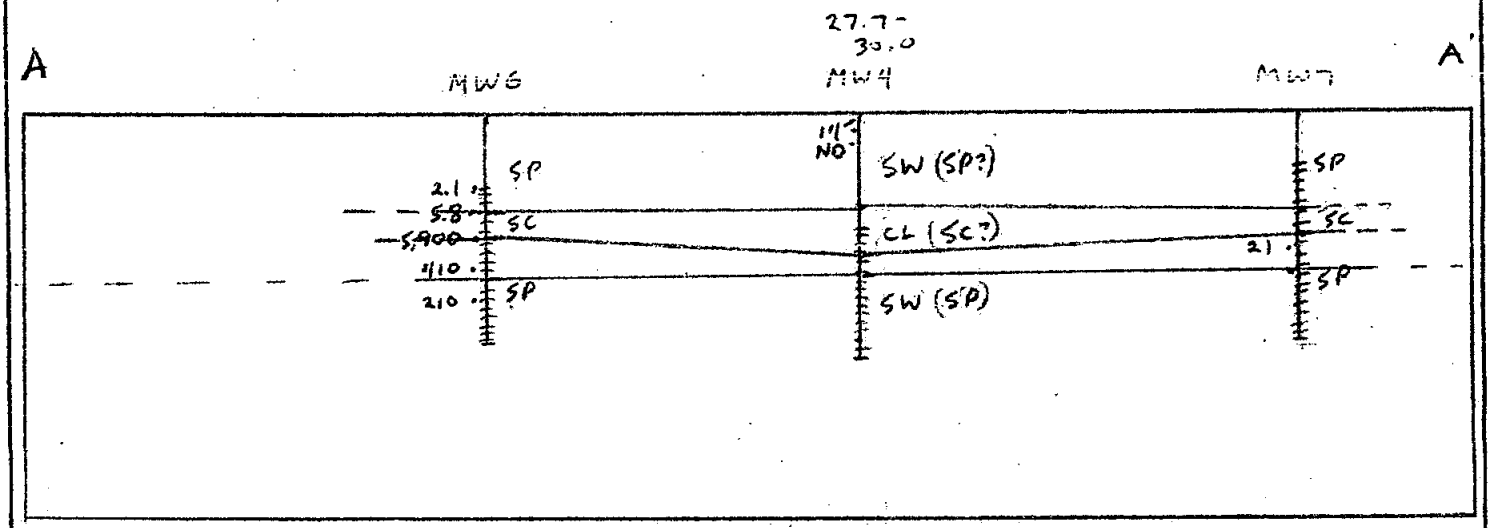
Title: SOIL SAMPLE RESULTS

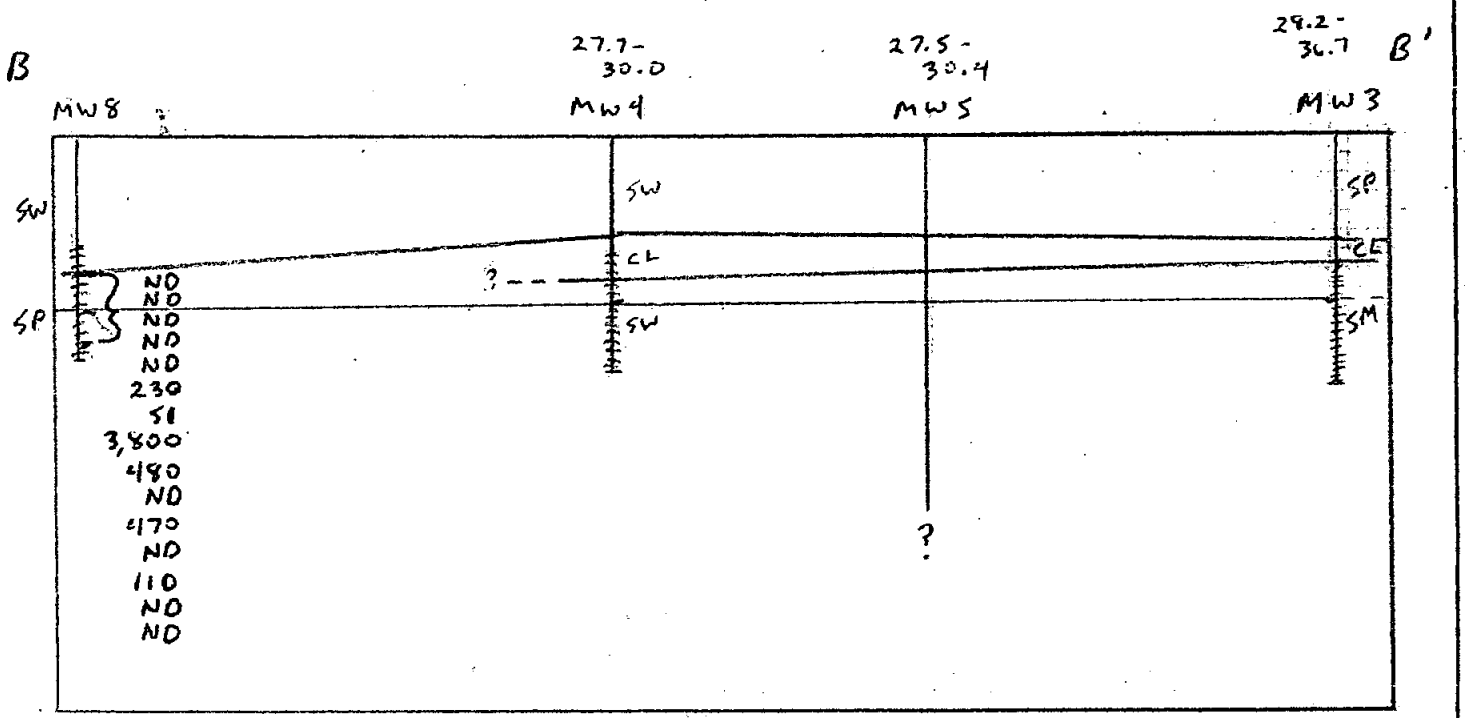
		Date
Design:	MJG	5/01
Drawn:	MJL	5/01
Checked:	MJG	5/01
Approved:	MJG	5/01

File No.: 02-01686-001 | Date: 3/01 | DWG/Fig: 3

ACAD File No.: TPHBENMTBE | Rev.: 5/02 | Sheet of

FROM M GIBBS 7/5/02





30
Hor = Vert

EnecoTech
ENVIRONMENTAL CONSULTANTS

Project: Wigington

Cross Sections A-A' and B-B'

File No.:	ACAD File No.:	Date:	REV.:
Drawn By:	Design By:	Checked By:	Approved By:	Figure No.:

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING

☐ TELEPHONE CONVERSATION

H# 19469-001

DATE 7/1/02 TIME 3:00 - 3:40 LOCATION El Capitan

ATTENDEES/AGENCIES REPRESENTED * _____

PHONE NO. ( )

☑ PERSON CALLING/CALLED Mike Gibbs - EnviroTech

☐ AGENCY REPRESENTED _____

CONVERSATION/MINUTES ** I need x sections, pipe & map of site. See our manual for x section examples. Problem is worse than previous work suggested - New leaks?

Will need additional water - soil samples. Push in probes possible.

M.C. would like to finish grass in next campaign. Use mobile lab.

He wants a meeting with me after x sections submitted.

NAME _____

SIGNED _____

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

* A sign-in sheet (HM-9048) should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

** Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

D. W. Felix

PERMIT # W100464
A.P.N.382-320-06
EST # H19469

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION

MONITORING WELL AND BORING CONSTRUCTION AND DESTRUCTION PERMIT

SITE NAME: EL CAPITAN OIL COMPANY

SITE ADDRESS: 11427 WOODSIDE AVE., SANTEE, CA 92071

PERMIT FOR: **INSTALL 1 GROUNDWATER MONITORING WELL**

PERMIT APPROVAL DATE: APRIL 8, 2002

PERMIT EXPIRES ON: AUGUST 6, 2002

PERMIT CONDITIONS:

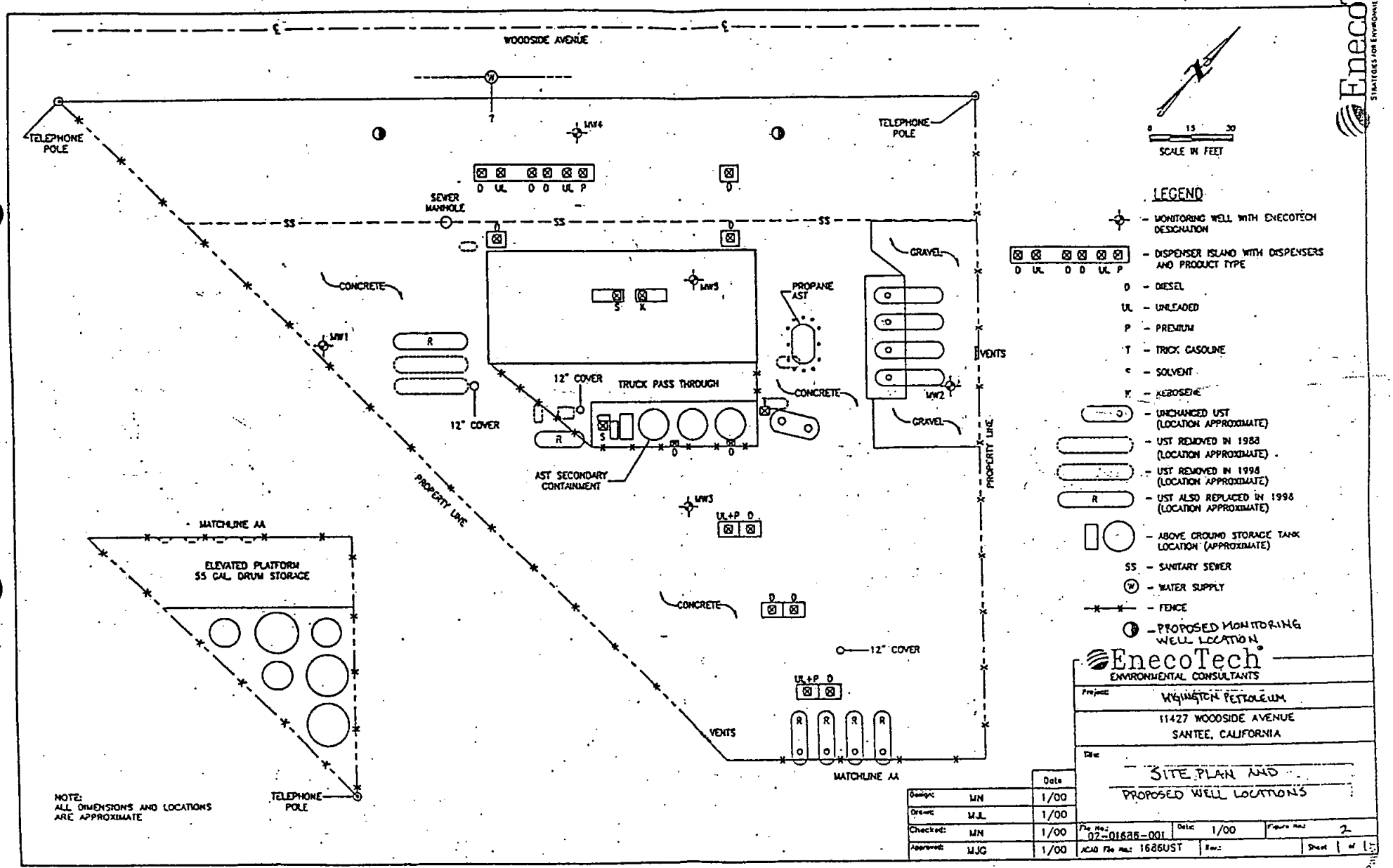
1. **Wells must have a minimum 3-foot concrete surface seal. The surface seal shall consist of concrete able to withstand the maximum anticipated load without cracking or deteriorating. The concrete should meet Class A specifications of a minimum 4000-pound compressive strength.**
2. All wash water must be contained and disposed of properly.
3. All water and soil that is placed in drums must be labeled and stored as specified in the SAM Manual in: Section 5, page 7, (5).
4. Within 60 days of completing work, submit a well construction report, including all well and/or boring logs and laboratory data to the Well Permit Desk. This report must include all items required by the SAM Manual, Section 5, Pages 6 & 7.
5. This office must be given 48 hour notice of any drilling activity on this site and advanced notification of drilling cancellation. Please contact Well Permit Desk at (619) 338-2339.

NOTE: **This permit does not constitute approval of a work plan as defined in Section 2722 of Article 11 of C.C.R., Title 23. Work plans are required for all unauthorized release investigations in San Diego County.**

APPROVED BY: _____ DATE: 4-8-02
Michael D. Vernetti

Notified: 4/9/02 EP

CalTrans State Hwy 67 Right of Way



EnecoTech
ENVIRONMENTAL CONSULTANTS

Project: WILLINGTON PETROLEUM
11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: SITE PLAN AND PROPOSED WELL LOCATIONS

		Date
Design:	MN	1/00
Drawn:	MJL	1/00
Checked:	MN	1/00
Approved:	MJG	1/00

File No.: 02-01686-001 | Date: 1/00 | Figure No.: 2
ACAD File No.: 1686UST | Rev.: | Sheet 1 of 1

EnecoTech STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITY

Recycled Paper

Case Name: 0

G.W. BENZ. 13,000 ppb PASSES .01 Slab

Chemical: benzene

Variable Descriptions				Units

CALCULATION OF SOIL GAS CONCENTRATION

A. SOURCE - Free Product/Soil>100mg/kg.				
Mole fraction	MF	=	0.00E+00	dimensionless
Molecular weight	MW	=	7.81E+04	mg/mole
Vapor pressure	VP	=	1.30E-01	atm
Universal gas constant	R	=	8.20E-05	atm-m3/mole-K
Temperature	T	=	2.93E+02	K
Calculated soil gas concentration	**C_{sg}(fp)**	=	**0.00E+00**	**mg/m3**
B. SOURCE - Groundwater				
Water contamination level	C_w	=	1.30E+04	ug/l
Henry's Law Constant	H	=	2.30E-01	dimensionless
Calculated soil gas concentration	**C_{sg}(gw)**	=	**2.99E+03**	**mg/m3**
C. SOURCE - Soil < 100 mg/kg				
Soil contamination level	C_t	=	0.00E+00	mg/kg
Henry's Law Constant	H	=	2.30E-01	dimensionless
Bulk density (dry)	ρ_b	=	1.80E+00	gm/cc
Air-filled porosity	θ_a	=	2.00E-01	dimensionless
Water-filled porosity	θ_w	=	1.00E-01	dimensionless
Soil/water distribution coef.	K_d	=	6.20E-01	cm3/gm
Calculated soil gas concentration	**C_{sg}(s)**	=	**0.00E+00**	**mg/m3**
D. SOURCE - Measured Soil Gas				
Measured soil gas concentration	**C_{sg}(m)**	=	**0.00E+00**	**mg/m3 (ug/l)**

E. SOIL GAS CONCENTRATION USED IN RISK CALCULATIONS >>>> 2.99E+03 mg/m3

DIFFUSIVE TRANSPORT UPWARD IN UNSATURATED ZONE

Total porosity	θ	=	3.00E-01	dimensionless
Air-filled porosity	θ_a	=	2.00E-01	dimensionless
Diffusion coefficient in air	D_a	=	8.80E-02	cm2/sec
Effective diffusion coefficient	**D_e**	=	**4.60E-03**	cm2/sec
Depth of contamination or Csg	X	=	1.00E+01	m
Calculated Flux	**F_x**	=	**4.95E-01**	**mg/m2-hour**

Case Name: 0

CALCULATING VAPOR CONCENTRATION IN BUILDING

A. INDOOR AIR COMPONENT				
Floor area of building	A	=	1.00E+00	m2
% of floor area that flux occurs			1.00E+00	dimensionless
Attenuation factor(Crack factor)	S_b	=	1.00E-02	dimensionless
Flux area within building	Af	=	**1.00E-02**	m2
Interior Height of building	R_h	=	2.44E+00	m
Volume of building	**V**	=	**2.44E+00**	m3
Exchange rate of air	E	=	8.30E-01	exchanges/hr
Ventilation rate	Q	=	**2.03E+00**	m3/hr
Indoor air component	C_i	=	**2.44E-03**	**mg/m3**
B. OUTDOOR AIR COMPONENT				
Downwind contamination length	L	=	0.00E+00	m
Wind speed	u	=	1.60E+04	m/hr
Height of building openings (or height of breathing zone)	h	=	2.00E+00	m
Outdoor air component	C_o	=	**0.00E+00**	**mg/m3**
C. TOTAL INDOOR AIR CONCENTRATION	C_t	=	**2.44E-03**	**mg/m3**

EXPOSURE SCENARIO

Body weight	BW	=	7.00E+01	kg
Inhalation rate	IR	=	2.00E+01	m3/day
Exposure duration	ED	=	2.50E+01	yrs
Hours per day	conversion		8.00E+00	hr/day
Exposure time	ET	=	**3.33E-01**	hr/24 hours
Days per week	conversion		5.00E+00	days/week
Weeks per year	conversion		5.00E+01	weeks/yr
Exposure frequency	EF	=	**2.50E+02**	days/yr
Averaging Time (carc. risk)	AT	=	2.56E+04	days
Averaging Time (non-carc. risk)	AT	=	**9.13E+03**	days
Chemical Intake (carc. risk)	IT_c	=	**5.69E-05**	**mg/kg-day**
Chemical Intake (non-carc. risk)	IT_{nc}	=	**1.59E-04**	**mg/kg-day**

NON-CARCINOGENIC RISK (Chronic Risk)

Chemical Intake (non-carc. risk)	IT_{nc}	=	1.59E-04	mg/kg-day
Reference dose	RfD	=	1.70E-03	mg/kg-day
Hazard Index	**HI**	=	**9.38E-02**	

CARCINOGENIC RISK

Chemical Intake (carc. risk)	IT_c	=	5.69E-05	mg/kg-day
Slope factor (potency)	SF	=	1.00E-01	1/(mg/kg-day)
Cancer Risk	**Risk**	=	**5.69E-06**	

Case Name: 0

CALCULATING VAPOR CONCENTRATION IN BUILDING

A. INDOOR AIR COMPONENT				
Floor area of building	A	=	1.00E+00	m2
% of floor area that flux occurs			1.00E+00	dimensionless
Attenuation factor(Crack factor)	S_b	=	1.00E-02	dimensionless
Flux area within building	Af	=	**1.00E-02**	m2
Interior Height of building	R_h	=	2.44E+00	m
Volume of building	V	=	**2.44E+00**	m3
Exchange rate of air	E	=	8.30E-01	exchanges/hr
Ventilation rate	Q	=	**2.03E+00**	m3/hr
Indoor air component	C_i	=	**5.96E-03**	**mg/m3**
B. OUTDOOR AIR COMPONENT				
Downwind contamination length	L	=	0.00E+00	m
Wind speed	u	=	1.60E+04	m/hr
Height of building openings	h	=	2.00E+00	m
(or height of breathing zone)				
Outdoor air component	C_o	=	**0.00E+00**	**mg/m3**
C. TOTAL INDOOR AIR CONCENTRATION	C_t	=	**5.96E-03**	**mg/m3**

EXPOSURE SCENARIO

Body weight	BW	=	7.00E+01	kg
Inhalation rate	IR	=	2.00E+01	m3/day
Exposure duration	ED	=	2.50E+01	yrs
Hours per day	conversion		8.00E+00	hr/day
Exposure time	ET	=	**3.33E-01**	hr/24 hours
Days per week	conversion		5.00E+00	days/week
Weeks per year	conversion		5.00E+01	weeks/yr
Exposure frequency	EF	=	**2.50E+02**	days/yr
Averaging Time (carc. risk)	AT	=	2.56E+04	days
Averaging Time (non-carc. risk)	AT	=	**9.13E+03**	days
Chemical Intake (carc. risk)	IT_c	=	**1.39E-04**	**mg/kg-day**
Chemical Intake (non-carc. risk)	IT_{nc}	=	**3.89E-04**	**mg/kg-day**

NON-CARCINOGENIC RISK (Chronic Risk)

Chemical Intake (non-carc. risk)	IT_{nc}	=	3.89E-04	mg/kg-day
Reference dose	RfD	=	1.70E-03	mg/kg-day
Hazard Index	**HI**	=	**2.29E-01**	

CARCINOGENIC RISK

Chemical Intake (carc. risk)	IT_c	=	1.39E-04	mg/kg-day
Slope factor (potency)	SF	=	1.00E-01	1/(mg/kg-day)
Cancer Risk	**Risk**	=	**1.39E-05**	

Case Name: 0

SOIL BENZ FAILS 20 ppm

Chemical: benzene

Variable Descriptions				Units

CALCULATION OF SOIL GAS CONCENTRATION

A. SOURCE - Free Product/Soil>100mg/kg.

Mole fraction	MF	=	0.00E+00	dimensionless
Molecular weight	MW	=	7.81E+04	mg/mole
Vapor pressure	VP	=	1.30E-01	atm
Universal gas constant	R	=	8.20E-05	atm-m3/mole-K
Temperature	T	=	2.93E+02	K
Calculated soil gas concentration	**C_{sg}(fp)**	=	**0.00E+00**	**mg/m3**

B. SOURCE - Groundwater

Water contamination level	C_w	=	0.00E+00	ug/l
Henry's Law Constant	H	=	2.30E-01	dimensionless
Calculated soil gas concentration	**C_{sg}(gw)**	=	**0.00E+00**	**mg/m3**

C. SOURCE - Soil < 100 mg/kg

Soil contamination level	C_t	=	2.00E+01	mg/kg
Henry's Law Constant	H	=	2.30E-01	dimensionless
Bulk density (dry)	ρ_b	=	1.80E+00	gm/cc
Air-filled porosity	θ_a	=	2.00E-01	dimensionless
Water-filled porosity	θ_w	=	1.00E-01	dimensionless
Soil/water distribution coef.	K_d	=	6.20E-01	cm3/gm
Calculated soil gas concentration	**C_{sg}(s)**	=	**6.56E+03**	**mg/m3**

D. SOURCE - Measured Soil Gas

Measured soil gas concentration	**C_{sg}(m)**	=	**0.00E+00**	**mg/m3 (ug/l)**

E. SOIL GAS CONCENTRATION USED IN RISK CALCULATIONS >>>> 6.56E+03 mg/m3

DIFFUSIVE TRANSPORT UPWARD IN UNSATURATED ZONE

Total porosity	θ	=	3.00E-01	dimensionless
Air-filled porosity	θ_a	=	2.00E-01	dimensionless
Diffusion coefficient in air	D_a	=	8.80E-02	cm2/sec
Effective diffusion coefficient	**D_e**	=	**4.60E-03**	cm2/sec
Depth of contamination or Csg	X	=	9.00E+00	m
Calculated Flux	**F_x**	=	**1.21E+00**	**mg/m2-hour**

DWF

PERMIT # W99281
A.P.N. # 382-320-06
EST # H19469

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION

MONITORING WELL PERMIT EXTENSION

SITE NAME: EL CAPITAN OIL COMPANY

SITE ADDRESS: 11427 WOODSIDE AVENUE, SANEE, CA 92071

PERMIT TO: **INSTALL 3 GROUNDWATER MONITORING WELLS**

ORIGINAL EXPIRATION DATE: JANUARY 3, 2001

THIS WELL PERMIT HAS BEEN EXTENDED AT THE REQUEST OF THE PERMITEE. ALL CONDITIONS ON THE ORIGINAL OR MODIFIED PERMIT ARE STILL IN EFFECT.

REQUEST RECEIVED: JANUARY 16, 2001

NEW EXPIRATION DATE: MAY 3, 2001

APPROVED BY: M Crystal DATE: 01/31/2001
M. CRYSTAL

NOTIFIED: By FAX 01/31/01 MSC

PERMIT # W99281
A.P.N. 382-320-06
EST # H19469

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION

MONITORING WELL AND BORING CONSTRUCTION AND DESTRUCTION PERMIT

SITE NAME: EL CAPITAN OIL COMPANY

SITE ADDRESS: 11427 WOODSIDE AVENUE, SANTEE, CA 92071

PERMIT FOR: **INSTALL 3 GROUNDWATER MONITORING WELLS**

PERMIT APPROVAL DATE: SEPTEMBER 5, 2000

PERMIT EXPIRES ON: JANUARY 3, 2001

PERMIT CONDITIONS:

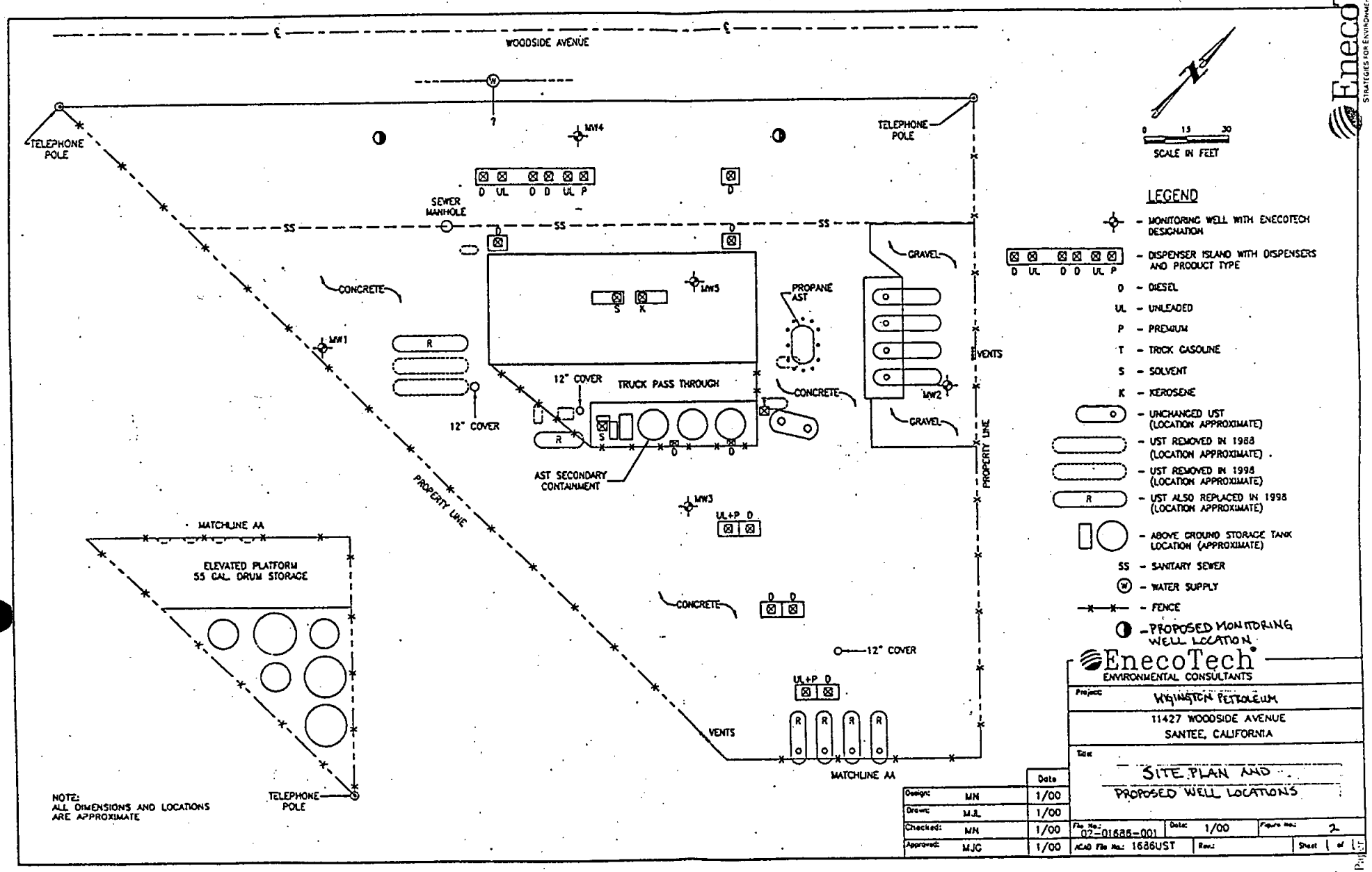
1. **All wells shall be constructed with the well screen extending no deeper than 10 feet below the static water table.**
2. All borings must be destroyed in accordance with Department of Water Resources Bulletin 74-81 and 74-90.
3. All wash water must be contained and disposed of properly.
4. Submit complete laboratory data for both soil and groundwater with the well logs.
5. Submit all the information specified in the 2000 SAM Manual in: Section 5, Page 3 (1).
6. All water and soil placed in drums must be labeled and stored as specified in the 2000 SAM Manual in: Section 5, Page 7, (5).
7. This office must be given 48 hour notice of any drilling activity on this site. Please contact Marisue Crystal at (619) 338-2339.
8. This office must be given advanced notification of drilling cancellation. Please contact Marisue Crystal at (619) 338-2339.

NOTE: **This permit does not constitute approval of a workplan as defined in Section 2722 of Article 11 of C.C.R., Title 23. Workplans are required for all unauthorized release investigations in San Diego County.**

APPROVED BY: **Robert Rapista** DATE: 09/05/00

Notified: left msg. MSC

THIS ONE IN CALTRANS PROPERTY



LEGEND

- MONITORING WELL WITH ENECOTECH DESIGNATION
- D UL D D UL P – DISPENSER ISLAND WITH DISPENSERS AND PRODUCT TYPE
- D – DIESEL
- UL – UNLEADED
- P – PREMIUM
- T – TRUCK GASOLINE
- S – SOLVENT
- K – KEROSENE
- UNCHANGED UST (LOCATION APPROXIMATE)
- UST REMOVED IN 1988 (LOCATION APPROXIMATE)
- UST REMOVED IN 1998 (LOCATION APPROXIMATE)
- R – UST ALSO REPLACED IN 1998 (LOCATION APPROXIMATE)
- ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- SS – SANITARY SEWER
- W – WATER SUPPLY
- FENCE
- PROPOSED MONITORING WELL LOCATION

NOTE:
ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

EnecoTech
ENVIRONMENTAL CONSULTANTS

Project:	WASHINGTON PETROLEUM	
	11427 WOODSIDE AVENUE SANTEE, CALIFORNIA	
Title:	SITE PLAN AND PROPOSED WELL LOCATIONS	
Designed: MN		1/00
Drawn: MJL		1/00
Checked: MN		1/00
Approved: MJG		1/00
File No.: 02-01686-001	Date: 1/00	Figure No.: 2
ACAD File No.: 1686UST	Rev.:	Sheet 1 of 1

EnecoTech
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITY

State Water Resources Control Board

Division of Clean Water Programs
2014 T Street • Sacramento, California 95814 • (916)
Mailing Address: P.O. Box 944212 • Sacramento, California • 94244-2120
FAX (916) 227-4530 • Internet Address: http://www.swrcb.ca.gov/cwphome/ustcf

Winston H. Hickox
Secretary for Environmental Protection

Gray Davis
Governor

RECEIVED
JUL 13 1 01
ENVIRONMENTAL HEALTH SERVICES

July 3, 2000

Linda Wigington
Wigington Petroleum, Inc.
11427 Woodside Ave
Santee, CA 92071

H19469
DWF

PRE-APPROVAL OF CORRECTIVE ACTION COSTS, CLAIM NO. 912, SITE ADDRESS: 11427 WOODSIDE AVE, SANTEE, CA 92071

I have reviewed your request, received on June 5, 2000, for pre-approval of corrective action costs; I will place these documents in your file for future reference. I have included a copy of the "Cost Pre-Approval Request" form; please use this form in the future for requesting pre-approval of corrective action costs.

With the following provisions, the total cost pre-approved as eligible for reimbursement for completing the May 26, 2000, EnecoTech workplan approved by the San Diego County DEH (County) in their June 5, 2000 letter, is **$ 14,589**; see the table below for a breakdown of costs.

*Be aware that this pre-approval does not constitute a decision on reimbursement: **all reasonable and necessary** corrective action costs for work **directed and approved by the County** will be eligible for reimbursement per the terms of your Letter of Commitment at costs consistent with those pre-approved in this letter.*

All future costs for corrective action must be approved in writing by Fund staff. Future costs for corrective action must meet the requirements of Article 11, Chapter 16, Underground Storage Tank Regulations.

COST PRE-APPROVAL BREAKDOWN

#	Task*	Amount Pre-Approved	Comments
1	Well Installation - field work	$9,310	3 gw monitoring wells to 40 ft bgs
2	Site assessment report	$1,724	
3	Well Survey	$ 115	
4	Groundwater monitoring - Field	$1,846	7 wells
5	Groundwater Monitoring - Report	$1,594	7 wells
	TOTAL PRE-APPROVED	**$ 14,589**	

* Task descriptions are the same as those identified in EnecoTech's June 28, 2000 Cost Estimate

- The actual costs and scope of work performed must be consistent with the pre-approval for it to remain valid.

- The work products must be acceptable to the County and the Regional Water Quality Control Board.

- Because the proposed costs appear reasonable, it is my opinion that it is unnecessary to obtain three bids for the proposed corrective action efforts; the Fund's three bid requirement is waived for this scope of work only. Any future scopes of work will be required to comply with the three bid requirement or receive a waiver of the required bidding requirements.

- If a different scope of work becomes necessary, then you must request pre-approval of costs on the new scope of work.

- Although I have referred to EnecoTech proposal in my pre-approval above, please be aware that you will be entering into a private contract: the State of California cannot compel you to sign any specific contract. This letter **pre-approves the costs** as presented in the proposal dated June 28, 2000 by EnecoTech.

I want to remind you that the Fund's regulations require that you obtain at least three bids. A bid waiver is granted for conducting the scope of work identified in the June 28, 2000 EnecoTech proposal and approved for implementation by San Diego County DEH. In the future you will be required to obtain at least three bids, or **request and justify** a bid waiver from Fund staff, from qualified firms for all necessary corrective action work. The legislation governing the Fund requires that the Fund assist you in procuring contractor and consultant services for corrective action. If you need assistance in contracting for corrective action services, don't hesitate to call me.

Please remember that it is still necessary to submit the actual costs of the work as explained in the Reimbursement Request Instructions to confirm that the costs are consistent with this pre-approval before you will be reimbursed. ***Please insure that your consultant prepares their invoices to include the required break down of costs on a time and materials basis, that invoiced tasks are consistent with the original proposal, and that reasonable explanations are provided for any changes made in the scope of work or increases in the costs.*** *When the invoices are submitted you must include copies of all:*

- *subcontractor invoices,*
- *technical reports, when available, and*
- *applicable correspondence from the County.*

Please call if you have any questions; I can be reached at (916) 227-2783.

Sincerely,

Brian D. Kelley

Brian D. Kelley, PE
Associate Water Resource Control Engineer
Technical Review Unit
Underground Storage Tank Cleanup Fund

Enclosure

cc: Mr. Chris Gonaver
San Diego County DEH
P.O. BOX 129261
San Diego, CA 92112-9261

DF

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

RICHARD HAAS
ASSISTANT DIRECTOR

June 5, 2000

Mr. Jim Wiggington
El Capitan Oil Co.
11427 Woodside Ave.
Santee, CA 92071

Dear Mr. Wiggington:

WORKPLAN APPROVAL FOR SITE ASSESSMENT AT
11427 WOODSIDE AVE, SANTEE, CA
UNAUTHORIZED RELEASE CASE H19467-001

This letter has been prepared in accordance with the requirements set forth in Section 2722 of the California Underground Storage Tank Regulations. The purpose of this letter is to notify the Responsible Party of the status of the Workplan prepared by EnecoTech and dated May 26, 2000.

The Workplan is approved.

This approval is valid for three months from the date of this letter.

Keep this letter for your records as it may be required for corrective action cost reimbursement under Senate Bill 2004 (California Health and Safety Code, Division 20, Chapter 6.75, Article 6).

The need for further site characterization and mitigation actions will be determined following evaluation of the written report. If you have any questions, please call me at (619) 338-2258.

Sincerely,

David Felix

DAVID FELIX, Project Manager
Site Assessment and Mitigation Program

DF:kf

cc: Melissa Novak, EnecoTech

6160 Fairmount Avenue • Suite A
San Diego, California 92120
Phone No. (619) 299-0033
FAX No. (619) 299-0087

ENECOTECH
Environmental Consultants

FACSIMILE COVER SHEET

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TO: David Felix @ SAM

FAX NO.: 338-2377

DATE: Mar. 31, 2000

TIME: a.m. (p.m.)

PRIORITY: X normal ____ URGENT!

PROJECT/BILL GRP NO.: 02-01686-001

PHASE/TASK: ____

PROPOSAL NO.: ____

FROM: Melissa Novak

SUBJECT: Addendum to Work Plan, #H19469

Number of pages (Including Cover Sheet): 2

Dear David Felix;

Please see the attached "Addendum to the Work Plan for Environmental Services" dated March 20, 2000. This addendum was developed per our phone conversation on March 17, 2000.

The first round of groundwater monitoring is scheduled for Monday, April 3. If you have any questions or concerns, feel free to call me or Michael Gibbs @ (619) 299-0033.

Thank You,
Melissa Novak
Staff Scientist

ORIGINAL TO FOLLOW IN MAIL: ___ Yes X No

r:\docs\other\forms\office\faxcover.sd
September 9, 1999

MAR-31-2000 15:38 FROM ENECOTECH SW SAN DIEGO TO 3382377 P.01

SENT VIA FACSIMILE

March 20, 2000 Project: 1686-001

Mr. Jim Wigington
FAX (619) 258-5993

RE: Addendum to the Work Plan for Environmental Services dated March 7, 2000 for Subject Site Location: 11427 Woodside Avenue, Santee, CA
T0948/H19469
APN 382-320-06

Dear Mr. Wigington:

EnecoTech Southwest, Inc. (EnecoTech) is pleased to provide this addendum to EnecoTech's "Work Plan for Environmental Services" dated March 7, 2000, for the subject site located at 11427 Woodside Avenue in Santee, California. According to a phone conversation with David Felix on March 17, 2000, the County of San Diego, Site Assessment and Mitigation Division (SAM) has required additional tasks to be performed prior to work to be performed as part of the March 7, 2000 Work Plan.

The following tasks are to be performed as required by SAM:

- The four existing wells are to be cleaned/redeveloped to check current groundwater conditions;
- One round of groundwater monitoring is to be conducted for all four existing wells; and,
- The findings from the groundwater monitoring event are to be reported to SAM, including a groundwater gradient map with benzene plume.

EnecoTech will clean the four existing wells using a bailer to surge the wells. Samples of water will be visually inspected for sediment and microbial fouling. The wells will be purged with a Ready Flow 2 pump until water is visually clear.

Groundwater monitoring of the four existing wells will include elevation measuring and groundwater sample collection. The collected groundwater samples will be analyzed for total petroleum hydrocarbons, benzene, toluene, ethylbenzene, and xylenes, and methyl tertiary butyl ether (MTBE) by EPA Method 8015/8020. Samples with positive results of MTBE will be confirmed for MTBE levels using EPA Method 8260B.

EnecoTech will develop and submit a report based on the data collected from the field activities and laboratory results.

If you have any questions or concerns, please contact the undersigned at (619) 299-0033.

Sincerely,
ENECOTECH SOUTHWEST, INC.

Melissa Novak
Staff Scientist

Michael Gibbs
Senior Geologist

R:\docs\jobs\1686\wpaddendum.doc
March 31, 2000

Recycled Paper

EnecoTech

MAR-31-2000 15:38 FROM ENECOTECH SW SAN DIEGO TO 3382377 P.02

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

RICHARD HAAS
ASSISTANT DIRECTOR

May 8, 2000

Mr. Jim Wiggington
El Capitan Oil Co.
11427 Woodside Ave.
Santee, CA 92071

Dear Mr. Wiggington:

SITE ASSESSMENT OF EL CAPITAN PETROLEUM PROPERTY AND SURROUNDINGS
11427 WOODSIDE AVE., SANTEE, CA
UNAUTHORIZED RELEASE CASE #H19469-001

Enecotech has provided the Department of Environmental Health with a "Work Plan for Environmental Services" dated March 14, 2000. The work was proposed to comply with requests for investigation of an underground storage tank leak that were made by this department in 1988 and 1996. The workplan calls for the installation of two monitoring wells to better delineate groundwater contamination.

Because of recently released guidelines for investigation and cleanup of underground tank leaks, and the location of the property within a groundwater basin that is used to supply drinking water, this site is going to need a more detailed investigation than was previously planned.

Major problems and considerations in planning the investigation of this site are:

MtBE (a gasoline additive) is present in the groundwater at levels 100 times greater than drinking water standards.

High MtBE concentration are are found in groundwater at the edge of the property along Woodside Ave and on the northeast side of the property near the new underground tanks.

Moderate levels of benzene and MtBE are found in groundwater at the south property line; these are assumed to extend onto the neighboring property.

The site lies within a groundwater basin that is being used as a municipal drinking water source (El Monte basin).

The El Capitan property is used, and presumably will continue to be used, as a petroleum storage facility.

At this time, it is important to determine the horizontal extent of gasoline components in groundwater, and to understand which way contaminated groundwater is moving. To gather this information, four additional monitoring wells are needed. One well should be approximately 50 feet northwest of MW 4 (this well location was proposed by Enecotech in their Workplan of March 14). Wells should also be placed 70 feet northeast and 70 feet southwest of MW 4. A fourth well is needed approximately 30 feet southwest of MW 1. All well locations are approximate and contingent on the locations being suitable for wells. At this time, a well in the extreme southwest corner of the property, as proposed by Enecotech, is not needed.

None of the proposed well locations are in areas with known or suspected soil contamination, so soil sampling during well construction is not a primary concern. However, if visual evidence of hydrocarbon contamination is noted during drilling, the contaminated interval needs to be sampled at one-foot increments. If no contamination is noted, one soil sample should be taken from each boring at the watertable.

When the new wells are installed and developed, the new wells and the existing wells must be sampled. A comprehensive report of groundwater conditions must be prepared and submitted to DEH. The need for additional monitoring wells and borings will then be evaluated.

Please arrange for the March 14 workplan to be rewritten to incorporate the above requirements. Submit the revised plan to DEH by May 30, 2000. I have discussed the expanded work requirements with Brian Kelly of the State Underground Tank Cleanup Fund and he agreed with the general concepts. After DEH approves the expanded work plan, it should be sent to the Cleanup Fund for preapproval.

Call me at (619) 338-2258 if you have any questions.

Sincerely,

David Felix

DAVID FELIX, Program Manager
Site Assessment and Mitigation Program

DF:kf

cc: Michael Gibbs - Enecotech
Brian Kelly - SWRCB

6160 Fairmount Avenue • Suite A
San Diego, California 92120
Phone No. (619) 299-0033
FAX No. (619) 299-0087

ENECOTECH
Environmental Consultants

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TO: Mr. Oscar Felix
SAM

FAX NO.:

DATE: ~~4/18/00~~ 4/25/00

TIME: a.m./p.m.

PRIORITY: ____ normal

____ URGENT!

PROJECT/BILL GRP NO.: 1656-001 (003)

PHASE/TASK:

PROPOSAL NO.:

FROM: Michael Gibbs

SUBJECT:

Number of pages (Including Cover Sheet): ~~9~~ 3

This makes more sense. See attached gradient and benzene maps per your request.

cc: Mr. Jim Wigington - FCI Capitan Oil
258-5593

ORIGINAL TO FOLLOW IN MAIL: __ Yes ✓ No

EnecoTech ENVIRONMENTAL CONSULTANTS

APR-25-2000 08:52 FROM ENECOTECH SW SAN DIEGO TO SAM P.01

6160 Fairmount Avenue • Suite A
San Diego, California 92120
Phone No. (619) 299-0033
FAX No. (619) 299-0087

ENECOTECH
Environmental Consultants

A19461

FACSIMILE COVER SHEET

If there are any problems with this transmission, please call (619) 299-0033. Please call if you do not receive the number of pages listed below. The contents of this facsimile are confidential. This information should be reviewed only by the person(s) named on this cover sheet. Please forward to addressee immediately. If you have received this transmission in error, please immediately notify us by telephone to arrange for the return of the documents.

TO: Mr. Oscar Felix
SAM

FAX NO.:

DATE: 4/13/00
TIME: a.m./p.m.
PRIORITY: _____ normal
_____ URGENT!
PROJECT/BILL GRP NO.:
PHASE/TASK:
PROPOSAL NO.:

FROM: Michael Gibbs

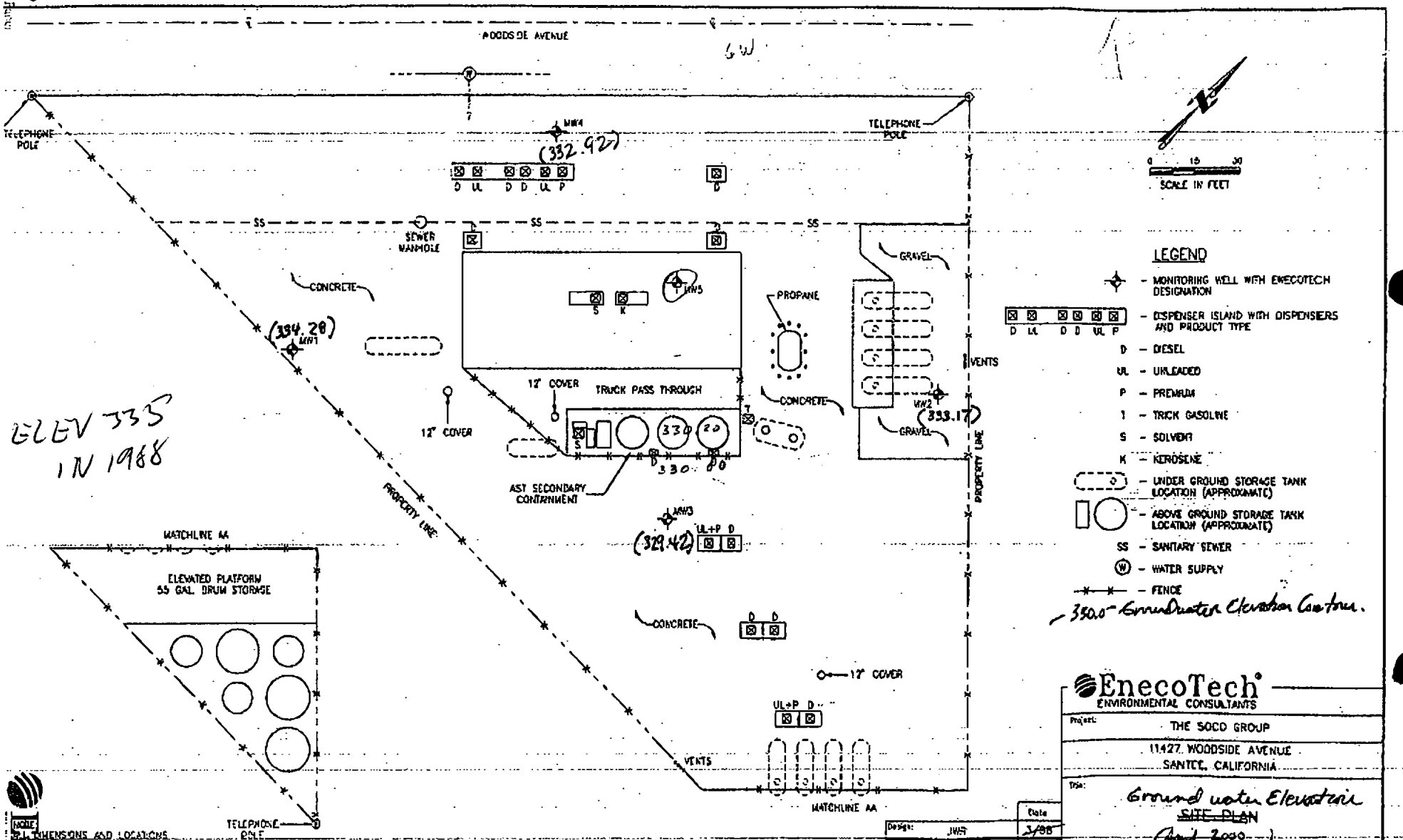
SUBJECT:

Number of pages (Including Cover Sheet): 9

c.c. Mr. Jim Wigington – Fl Capitan Oil
258-5593

ORIGINAL TO FOLLOW IN MAIL: ___ Yes ✓ No

APR-18-2000 14:24 FROM ENECOTECH SW SAN DIEGO TO SAM P.01



ELEV 335 IN 1988

350.0' Groundwater Elevation Contour.

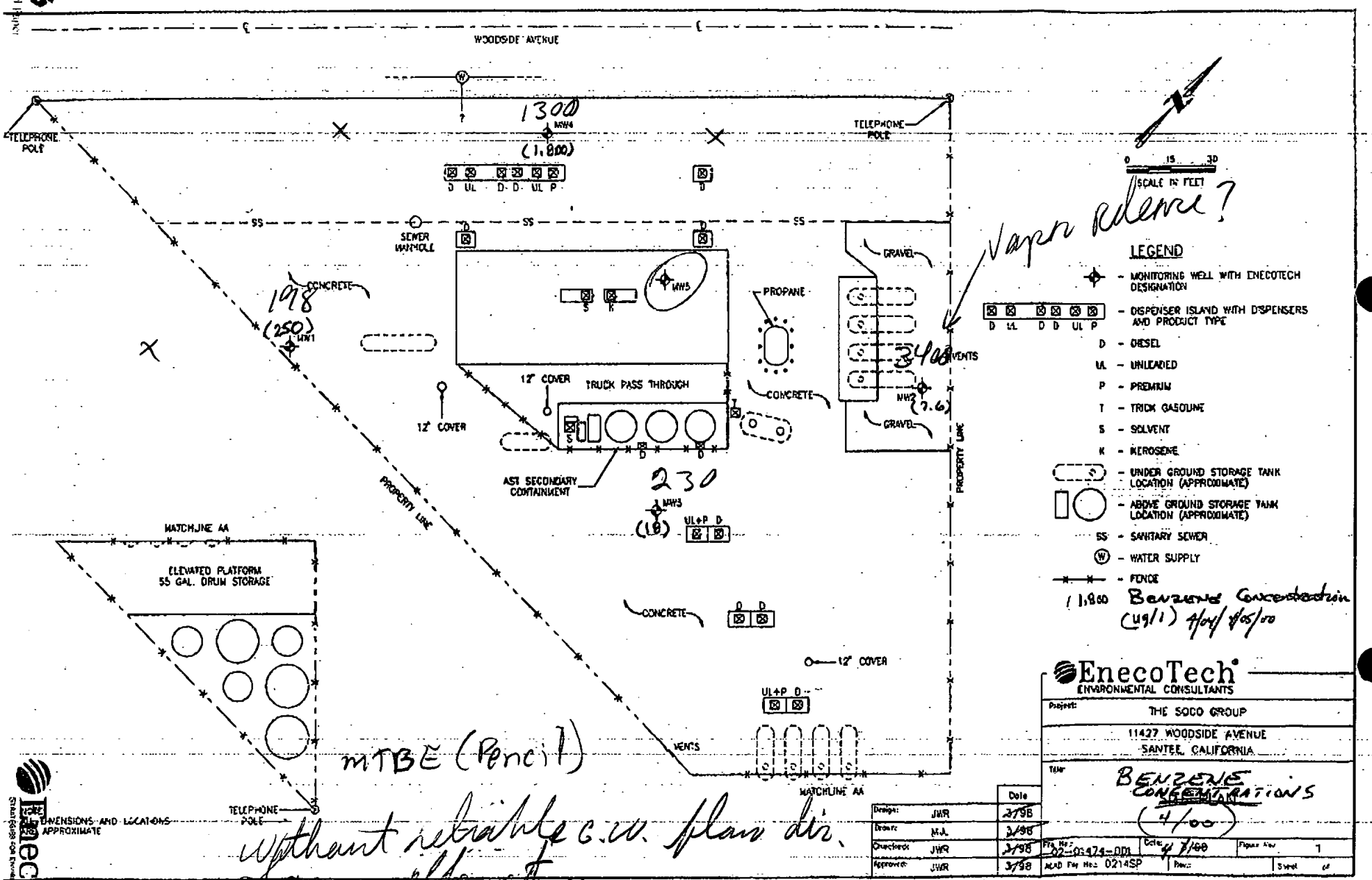
NOTE: ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

EnecoTech
ENVIRONMENTAL CONSULTANTS

Project:	THE SOCO GROUP
	11427 WOODSIDE AVENUE
	SANTEE, CALIFORNIA
Title:	Ground water Elevation SITE PLAN (April 2000)

		Date
Design:	JWR	3/98
Drawn:	MJL	3/98
Checked:	JWR	3/98
Approved:	JWR	3/98

File No: 02-01474-001 | Date: 3/98 | Figure No: 2
ACAD File No: 0214SP | Rev: | Sheet of


WOODSIDE AVENUE
TELEPHONE POLE
1300
MW4
(1,800)
D UL D D UL P
SS
SEWER MANHOLE
MW5
PROPANE
GRAVEL
CONCRETE
198
(250)
MW1
12" COVER
TRUCK PASS THROUGH
AST SECONDARY CONTAINMENT
230
MW3
(18)
UL+P D
PROPERTY LINE
MW2
(7.6)
3400
VENTS
MATCHLINE AA
ELEVATED PLATFORM
55 GAL. DRUM STORAGE
TELEPHONE POLE
DIMENSIONS AND LOCATIONS ARE APPROXIMATE
0 15 30
SCALE IN FEET
Vapor release?
LEGEND
MONITORING WELL WITH ENECOTECH DESIGNATION
DISPENSER ISLAND WITH DISPENSERS AND PRODUCT TYPE
D - DIESEL
UL - UNLEADED
P - PREMIUM
T - TRICK GASOLINE
S - SOLVENT
K - KEROSENE
UNDER GROUND STORAGE TANK LOCATION (APPROXIMATE)
ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
SS - SANITARY SEWER
W - WATER SUPPLY
FENCE
1,800 Benzene Concentration (ug/l) 4/04/05/00
EnecoTech
ENVIRONMENTAL CONSULTANTS
Project: THE SOCO GROUP
11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA
Title: BENZENE CONCENTRATIONS 4/00
Date
Design: JWR 3/98
Drawn: M.L. 3/98
Checked: JWR 3/98
Approved: JWR 3/98
File No.: 02-03474-001
ACAD File No.: 0214SP
Figure No. 1
Sheet of
mTBE (Pencil)
without reliable G.W. flow dir. place wells at x
Class B mTBE

Del Mar Analytical

7014 E. Cla[illegible], Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-104
16525 Sherman W[illegible] C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-184
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-909
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-085

LABORATORY REPORT

Prepared For: Enecotech Southwest, Inc. San Diego
5160 Fairmount Ave. Suite A
San Diego, CA 92120

Attention: John Royal
Project: El Capitan Oil
02-01686-001

Sampled: 04/04/00-04/05/00
Received: 04/07/00
Reported: 04/17/00

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

CA ELAP Certificate #1169
AZ DHS License #AZ0062

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enercotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: Bi Caphon Oil
02-01686-001
Report Number: CJD0059

Sampled: 04/04/00-04/05/00
Received: 04/07/00

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: CJD0059-01 (MW3 - Water)				Sampled: 04/04/00				
Volatile Fuel Hydrocarbons	EPA 8015B/8021B	C0D1501	50	420	1	4/13/00	4/15/00	
Benzene	EPA 8015B/8021B	C0D1501	0.30	18	1	4/13/00	4/15/00	
Toluene	EPA 8015B/8021B	C0D1501	0.30	1.7	1	4/13/00	4/15/00	
Ethylbenzene	EPA 8015B/8021B	C0D1501	0.30	3.9	1	4/13/00	4/15/00	
Xylenes, Total	EPA 8015B/8021B	C0D1501	0.60	12	1	4/13/00	4/15/00	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021B	C0D1501	10	230	1	4/13/00	4/15/00	
Surrogate: 4-BFB (PID) (70-145%)				*118 %*				
Surrogate: aaa-TFT (FID) (70-130%)				*94.5 %*				
Sample ID: CJD0059-02 (MW2 - Water)				Sampled: 04/04/00				
Volatile Fuel Hydrocarbons	EPA 8015B/8021B	C0D1501	500	7600	10	4/13/00	4/15/00	
Benzene	EPA 8015B/8021B	C0D1501	3.0	7.6	10	4/13/00	4/15/00	
Toluene	EPA 8015B/8021B	C0D1501	3.0	3.3	10	4/13/00	4/15/00	
Ethylbenzene	EPA 8015B/8021B	C0D1501	3.0	30	10	4/13/00	4/15/00	
Xylenes, Total	EPA 8015B/8021B	C0D1501	6.0	59	10	4/13/00	4/15/00	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021B	C0D1501	100	3400	10	4/13/00	4/15/00	
Surrogate: 4-BFB (PID) (70-145%)				*154 %*				
Surrogate: aaa-TFT (FID) (70-130%)				*99.5 %*				
Sample ID: CJD0059-03 (MW1 - Water)				Sampled: 04/05/00				
Volatile Fuel Hydrocarbons	EPA 8015B/8021B	C0D1501	500	1800	10	4/13/00	4/15/00	
Benzene	EPA 8015B/8021B	C0D1501	3.0	250	10	4/13/00	4/15/00	
Toluene	EPA 8015B/8021B	C0D1501	3.0	14	10	4/13/00	4/15/00	
Ethylbenzene	EPA 8015B/8021B	C0D1501	3.0	34	10	4/13/00	4/15/00	
Xylenes, Total	EPA 8015B/8021B	C0D1501	6.0	380	10	4/13/00	4/15/00	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021B	C0D1501	100	190	10	4/13/00	4/15/00	
Surrogate: 4-BFB (PID) (70-145%)				*107 %*				
Surrogate: aaa-TFT (FID) (70-130%)				*91.0 %*				

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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APR-18-2000 14:26 FROM ENECOTECH SW SAN DIEGO TO SAM P.05

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15625 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
8630 South 51st St., Suite B-126, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: El Capitan Oil
02-01636-001
Report Number: CJD0059

Sampled: 04/04/00-04/05/00
Received: 04/07/00

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: CJD0059-04 (MW4 - Water)				Sampled: 04/05/00				
Volatile Fuel Hydrocarbons	EPA 8015B/8021B-C0D1501	2000		8700	40	4/13/00	4/15/00	
Benzene	EPA 8015B/8021B-C0D1501	12		1800	40	4/13/00	4/15/00	
Toluene	EPA 8015B/8021B-C0D1501	12		ND	40	4/13/00	4/15/00	
Ethylbenzene	EPA 8015B/8021B-C0D1501	12		110	40	4/13/00	4/15/00	
Xylenes, Total	EPA 8015B/8021B-C0D1501	24		790	40	4/13/00	4/15/00	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021B-C0D1501	400		1300	40	4/13/00	4/15/00	
Surrogate: 4-BFB (PID) (70-145%)				*99.5 %*				
Surrogate: aaa-TFT (FID) (70-150%)				*97.5 %*				

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-962
2890 South 31st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-085

Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: El Capitan Oil
02-01686-001
Report Number: CJD0059

Sampled: 04/04/00-04/05/00
Received: 04/07/00

[redacted]

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C0D1501 Extracted: 04/15/00										
Blank Analyzed: 04/15/00 (C0D1501-BLK1)										
Volatile Fuel Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	ug/l							
Ethylbenzene	ND	0.30	ug/l							
Xylenes, Total	ND	0.60	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	10	ug/l							
Surrogate: 4-BFB (FID)	*19.1*		*ug/l*	*20.0*		*95.5*	*70-145*			
Surrogate: aaa-TFT (FID)	*18.2*		*ug/l*	*20.0*		*91.0*	*70-130*			
LCS Analyzed: 04/15/00 (C0D1501-BS1)										
Volatile Fuel Hydrocarbons	229	50	ug/l	220		104	70-130			
Benzene	18.5	0.30	ug/l	20.0		92.5	70-130			
Toluene	18.6	0.30	ug/l	20.0		93.0	70-130			
Ethylbenzene	19.4	0.30	ug/l	20.0		97.0	70-130			
Xylenes, Total	57.0	0.60	ug/l	60.0		95.0	70-130			
Methyl-tert-butyl Ether (MTBE)	295	10	ug/l	300		98.3	70-130			
Surrogate: 4-BFB (FID)	*20.7*		*ug/l*	*20.0*		*104*	*70-145*			
Surrogate: aaa-TFT (FID)	*20.4*		*ug/l*	*20.0*		*102*	*70-130*			
Matrix Spike Analyzed: 04/15/00 (C0D1501-MS1)					**Source: CJD0058-09**					
Volatile Fuel Hydrocarbons	252	50	ug/l	220	27	102	70-130			
Benzene	19.2	0.30	ug/l	20.0	ND	96.0	70-130			
Toluene	19.4	0.30	ug/l	20.0	ND	97.0	70-130			
Ethylbenzene	20.3	0.30	ug/l	20.0	ND	101	70-130			
Xylenes, Total	59.7	0.60	ug/l	60.0	ND	99.5	30-130			
Methyl-tert-butyl Ether (MTBE)	337	10	ug/l	300	ND	112	70-130			
Surrogate: 4-BFB (FID)	*21.8*		*ug/l*	*20.0*		*109*	*70-145*			
Surrogate: aaa-TFT (FID)	*19.7*		*ug/l*	*20.0*		*98.5*	*70-130*			

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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APR-18-2000 14:27 FROM ENECOTECH SW SAN DIEGO TO SAM P.07

Del Mar Analytical

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18525 Sherman Way, Suite A1, Van Nuys, CA 91406
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123
2630 South 21st St., Suite B-180, Phoenix, AZ 85044

(909) 370-4667 FAX (909) 370-1046
(818) 779-1844 FAX (818) 779-1843
(858) 505-8596 FAX (858) 505-8689
(480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: El Capton Oil
02-01686-001
Report Number: CJD0059

Sampled: 04/04/00-04/05/00
Received: 04/07/00

[redacted]

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C0D1501 Extracted: 04/15/00										
Matrix Spike Dup Analyzed: 04/15/00 (C0D1501-MSD1)					Source: CJD0058-09					
Volatile Fuel Hydrocarbons	262	50	ug/l	220	27	107	70-130	3.89	25	
Benzene	19.9	0.30	ug/l	20.0	ND	99.5	70-130	3.58	20	
Toluene	20.0	0.30	ug/l	20.0	ND	100	70-130	3.05	20	
Ethylbenzene	20.9	0.30	ug/l	20.0	ND	104	70-130	2.91	30	
Xylenes, Total	61.2	0.60	ug/l	60.0	ND	102	70-130	2.48	20	
Methyl-tert-butyl Ether (MTBE)	372	10	ug/l	300	ND	124	70-130	9.87	25	
Surrogate: 4-BFB (PID)	*22.0*		*ug/l*	*20.0*		*110*	*70-145*			
Surrogate: para-TFT (FID)	*20.2*		*ug/l*	*20.0*		*101*	*70-150*			

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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APR-18-2000 14:28 FROM ENECOTECH SW SAN DIEGO TO SAM P.08

Del Mar Analytical

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(818) 779-1844 FAX (818) 779-1843
(858) 505-9596 FAX (858) 505-9689
(480) 785-0043 FAX (480) 785-0851

Enecontech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: El Capitan Oil
02-01636-001
Report Number: CJD0059

Sampled: 04/04/00-04/05/00
Received: 04/07/00

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit

NR Not reported

RPD Relative Percent Difference

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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APR-18-2000 14:28 FROM ENECOTECH SW SAN DIEGO TO SAM P.09

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# H2469-001

☐ TELEPHONE CONVERSATION

DATE 4/7/00 TIME 3:06 LOCATION Bay Wright

ATTENDEES/AGENCIES REPRESENTED * _____

PHONE NO. ( ) _____

☑ PERSON CALLING/CALLED Melissa Novak

☐ AGENCY REPRESENTED _____

CONVERSATION/MINUTES ** Were wells cleared & sampled per Work Plan Addendum of 3/20/00

She thinks it was done yesterday.

I said send analysis & gradient map. Report is not needed!

I will discuss locations of new wells with M. Gibbs.

NAME _____

SIGNED _____

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

* A sign-in sheet (HM-9048) should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

** Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

State Water Resources Control Board

Division of Clean Water Programs
2014 T Street • Sacramento, California 95814 • (916) 227-4406
Mailing Address: P.O. Box 944212 • Sacramento, California • 94244-2120
FAX (916) 227-4530 • Internet Address: http://www.swrcb.ca.gov/~cwphome/ustcf

Winston H. Hickox
Secretary for Environmental Protection

Gray Davis
Governor

RECEIVED
APR 10 10 45 AM '00
ENVIRONMENTAL HEALTH

APR 5 2000

Linda Wigington
Wigington Petroleum, Inc.
11427 Woodside Ave
Santee, CA 92071

H19469
DWF

UNDERGROUND STORAGE TANK CLEANUP FUND, CLAIM NO. 000912, FOR SITE ADDRESS: 11427 WOODSIDE AVE, SANTEE

The State Water Resources Control Board (State Board) is able to issue, pursuant to applicable regulations, the enclosed Letter of Commitment (LOC) in an amount not to exceed $15,000. This LOC is based upon our review of the corrective action costs you reported to have incurred to date. The LOC may be modified by the State Board.

It is very important that you read the terms and conditions listed in the enclosed LOC. Claims filed with the Underground Storage Tank Cleanup Fund far exceed the funding available and it is very important that you make use of the funding that has been committed to your cleanup in a timely manner.

Claimant is referred to the enclosed Insurance and Settlement Worksheet. Claimant is advised that any cost submitted that was incurred and paid for by Mr. Wright (former tank owner/operator) will only be reimbursed when claimant provides the required documentation.

You are reminded that you must comply with all regulatory agency time schedules and requirements and you must obtain three bids for any required corrective action. Only corrective action costs *required* by the regulatory agency to protect human health, safety and the environment can be claimed for reimbursement. **Unless waived in writing, you are <u>required</u> to obtain *preapproval of costs* for all future corrective action work (form enclosed).** If you have any questions on obtaining preapproval of your costs or the three bid requirement, please call Brian D. Kelley, our Technical Reviewer assigned to claims in your Region, at (916) 227-2783. Failure to obtain preapproval of your future costs may result in the costs not being reimbursed.

The following documents needed to submit your reimbursement request are enclosed:

"Reimbursement Request Instructions" package. **Retain this package for future reimbursement requests**. These instructions must be followed when seeking reimbursement for corrective action costs incurred after January 1, 1988. Included in the instruction package are samples of completed reimbursement request forms and spreadsheets.

"Bid Summary Sheet" to list information on bids received which **must be completed and returned**.

"Reimbursement Request" forms which you **must use to request reimbursement of costs incurred**.

"Spreadsheet" forms which you **must use in conjunction with your reimbursement request**.

☛ **THIS IS IMPORTANT TO YOU, PLEASE NOTE:**
You have 90 calendar days from the date of this letter to submit your first reimbursement request for incurred corrective action costs. **NO EXTENSIONS CAN BE GRANTED**. If you fail to do so, your LOC funds will automatically be reduced to zero (deobligated). Once this occurs, any future funds for this site are subject to availability when you submit your first reimbursement request. We continuously review the status of all active claims. You must continue to remain in compliance and submit a reimbursement request every 6 months. Failure to do so will result in the Fund taking steps to withdraw your LOC.

If you have any questions regarding the enclosed documents, please contact Anna Torres at (916) 227-4388.

Sincerely,

for Allan V. Patton, Manager
UST Cleanup Fund Program

Enclosures

cc: Mr. Chris Gonaver
San Diego County DEH
P.O. BOX 129261
San Diego, CA 92112-9261

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# 19469-001

☑ TELEPHONE CONVERSATION

DATE 9/12/98 TIME 10:50 - 11:15 LOCATION

ATTENDEES/AGENCIES REPRESENTED *

PHONE NO. ( )

☑ PERSON CALLING/CALLED Roger Bartholemew

☐ AGENCY REPRESENTED

CONVERSATION/MINUTES ** I am thinking of hiring Ct Expert

I reviewed.

Suggested review of all our files

R. B called again on 9/18. Has not gotten file request form - 2 calls so far

FAX 475-9523

also wants list of our lawyers

I faxed atty list

& faxed file request form

NAME

SIGNED

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

* A sign-in sheet (HM-9048) should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

** Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☐ MINUTES OF MEETING H# 19469-001

☑ TELEPHONE CONVERSATION

DATE 4/22/98 TIME 1:20 LOCATION Bay Wright

ATTENDEES/AGENCIES REPRESENTED * _____

PHONE NO. ( )

☐ PERSON CALLING/CALLED Peter Stang (PRC)

☐ AGENCY REPRESENTED _____

CONVERSATION/MINUTES ** Wiegerton wants 2 wells sampled. Grid of ~~plan~~ UST & to be removed. I suggest only that excavation work to do additional site assessment rather than sharp U.R. had occurred. Wait a few months after UST removal before sampling wells. gives G.W. a chance to "improve" from hit.

~~J.~~ J. Wing must follow "rules" to have any evidence of remediation. He is out of compliance.

NAME _____

SIGNED _____

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

* A sign-in sheet (HM-9048) should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

** Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

Notes for 1/10/97 mtg

1. Redevelop MW 3 MW 1
2. Get DTW measurement - call me
3. Sample 3 + 1 BTEX + Naph + MTBE

Depending on values

4. Install 2 new wells Near B03 + B06
5. RNA possible

RECORD OF MEETING/TELEPHONE CONVERSATION

CHECK APPROPRIATE BOX:

☑ MINUTES OF MEETING H# _____

☐ TELEPHONE CONVERSATION

DATE 1:00 - 1:30 TIME 1/18/07 LOCATION _____

ATTENDEES/AGENCIES REPRESENTED * _____

PHONE NO. ( ) _____

☐ PERSON CALLING/CALLED Jim Wrightson

☐ AGENCY REPRESENTED See attached

CONVERSATION/MINUTES ** I wrote out instructions for steps 1, 2, 3

Explained possible 4 & 5

Got 3 bids, Work Plan, Problem is not to bad

NAME _____

SIGNED _____

AGENCY - COUNTY OF SAN DIEGO, DEPARTMENT OF ENVIRONMENTAL HEALTH

* A sign-in sheet (HM-9048) should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

** Brief summary of subject, agreements, directions, and/or instructions and anything else pertinent. Use extra sheets as necessary.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "*Return Receipt Requested*" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Wright Companies
Attn: Richard Klipperman
c/o Corporate Management, Inc.
U.S. Bankruptcy Trustee
P.O. Box 3939
La Mesa, CA 91944-3939
DF:gl RE: #H19469-001

4a. Article Number

P 521 513 135

4b. Service Type

☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

10-29-96

5. Received By: *(Print Name)*

8. Addressee's Address *(Only if requested and fee is paid)*

6. Signature: *(Addressee or Agent)*

X Teresa Jorg

PS Form **3811**, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

P 521 513 135

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail *(See reverse)*

Sent to Wright Companies Attn: Richard Klipperman	
Street & Number c/o U.S. Bankruptcy Trustee P.O. Box 3939	
Post Office, State, & ZIP Code La Mesa, CA 91944-3939	
Postage	$
Certified Fee	#H19469-001
Special Delivery Fee	D. Felix
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	October 23, 1996

PS Form 3800, April 1995

Stick postage stamps to article to cover First-Class postage, certified mail fee, and charges for any selected optional services *(See front).*

1. If you want this receipt postmarked, stick the gummed stub to the right of the return address leaving the receipt attached, and present the article at a post office service window or hand it to your rural carrier *(no extra charge).*

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5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in item 1 of Form 3811.

6. Save this receipt and present it if you make an inquiry.

PS Form **3800**, April 1995 *(Reverse)*

DF

County of San Diego

DANIEL J. AVERA
DIRECTOR

LARRY T. AKER
ASSISTANT DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 85261, SAN DIEGO, CA 92186-5261
(619) 338-2222 FAX (619) 338-2377

SITE ASSESSMENT AND MITIGATION DIVISION

NOTICE OF REIMBURSEMENT RESPONSIBILITY (REISSUE)

October 15, 1996

Wright Companies
Attn: Richard Klipperman
c/o Corporate Management, Inc.
United States Bankruptcy Trustee
P.O. Box 3939
La Mesa, CA 91944-3939

Dear Mr. Klipperman:

UNAUTHORIZED RELEASE #H19469-001
BUY WRIGHT OIL
11427 WOODSIDE AVE., SANTEE, CA 92071-4725

This letter is to notify you of a change in persons identified as responsible parties for the **Unauthorized Release** of hazardous substances from the underground storage tank(s) (UST) at the location referenced above. A previous reimbursement notification may have been sent regarding this site. If this case is resolved, please retain this letter for your records.

The County of San Diego Site Assessment and Mitigation Division (SAM) has identified the following party(ies) as being responsible for the implementation of the environmental investigation and cleanup of this Unauthorized Release:

Wright Companies
Attn: Richard Klipperman
c/o Corporate Management, Inc.
United States Bankruptcy Trustee
P.O. Box 3939
La Mesa, CA 91944-3939

Mr. William Wright
3007 Regency Hill
Henderson, NV 89014

Wigington Petroleum, Inc.
Attn: Jim Wigington
P.O. Box 2504
Spring Valley, CA 92077

Please be advised that Article 4, Chapter 6.75 of the California Health & Safety Code (CH&SC) requires the tank owner, tank operator, or other responsible parties to take corrective action in response to an Unauthorized Release.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please fax your request to Nina Gonzales at the State Water Resources Control Board at (916) 227-4371 or telephone (916) 227-4408.

A determination of secondary responsible party status may be made if it is shown that one or more of the responsible party(ies) is performing corrective action and it is clear that the party seeking secondary status did not in any way initiate or contribute to the actual discharge. If the primary responsible party fails to perform corrective action, then the secondary responsible party will be considered a primary responsible party. To request designation as a secondary responsible party contact the undersigned Hazardous Materials Specialist.

Title 23 of the California Code of Regulations requires the responsible party(ies) to implement **initial corrective action measures** upon the discovery of an Unauthorized Release from a UST system. Enclosed for your information is a listing of initial corrective action measures and applicable notification requirements if these actions have not yet been completed.

Subsequent corrective action requirements will be determined upon SAM evaluation of the UST Unauthorized Release Report and consultation with the Regional Water Quality Control Board and other appropriate regulatory agencies. The responsible party(ies) will be notified of their additional corrective action requirements in writing by SAM. The satisfactory completion of corrective action at the Unauthorized Release site can only be acknowledged through SAM and RWQCB issuance of an official remedial action completion certification to the responsible party(ies).

The federal Petroleum Leaking Underground Storage Tank Trust Fund (Federal Trust Fund) provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The State Legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The direct and indirect costs of overseeing site investigation or remedial action at the above site are funded, in whole or in part, from the Federal Trust Fund. The above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site. YOU ARE HEREBY NOTIFIED that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Sections 25297.1 of the California Health and Safety Code, the above Responsible Party(ies) must reimburse the State Water Resources Control Board not more than 150 percent of the total amount of site specific oversight costs actually incurred while overseeing the cleanup of the above underground storage tank site, and the above

Responsible Party(ies) must make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.

The State Underground Storage Tank Cleanup Fund, provides funding to eligible responsible parties for corrective action and third party liability costs resulting from the Unauthorized Release of petroleum hydrocarbons. For more information on the UST Cleanup Fund, please contact the State Water Resources Control Board at (916) 227-4326.

The County of San Diego is currently the agency responsible for the oversight of your site. You have the right to request the designation of an administering agency to oversee the site investigation and remedial action at this site pursuant to CH&SC, Division 20, Chapter 6.65, Section 25262. See the enclosed letter from the State Water Resources Control Board for more information.

If you have any questions concerning this Notice, please contact the undersigned at (619) 338-2258, or the Division of Clean Water Programs, State Water Resources Control Board, P.O. Box 944212, Sacramento, CA 94244-2120.

Sincerely,

David Felix

DAVID FELIX, Hazardous Materials Specialist
Site Assessment and Mitigation Division

DF:gl

Enclosures

cc: Donna Barnickol, State Water Resources Control Board

CURRENT CASE STATUS: ☐ RESOLVED ON _____ ☑ ACTIVE

MONTH/YEAR

CERTIFIED/RRR

CORRECTIVE ACTION MEASURES

TANK OWNER/OPERATOR RESPONSIBILITIES

The San Diego County Site Assessment and Mitigation Division (SAM) has been notified that an Unauthorized Release has occurred at the underground storage tank site upon which you have been identified as a responsible party. The responsible parties are hereby required to initiate corrective action measures in accordance with the provisions stated below.

Initial Corrective Action Measures

- Maintain the Unauthorized Release site in a manner that does not create public health, safety and environmental hazards.
- Remove as much of the hazardous substance from the underground tank system as is necessary to prevent further release to the environment.
- Investigate the Unauthorized Release and prevent further migration of the released substance into the environment.
- Remedy hazards posed by contaminated soils that are exposed or excavated as a result of release confirmation, site investigation, or abatement activities.
- Submit all available information relevant to the underground tank site and the Unauthorized Release, including:

    1. The nature and estimated quantity of release.
    2. Current or potential off-site impacts on land uses, water wells/resources, subsurface utilities, etc.

- Follow the corrective action procedures, guidelines, and engineering controls described in the County of San Diego Site Assessment & Mitigation Manual.

Notification and Reporting Responsibilities

- Notify the local Fire Department and SAM immediately whenever a fire hazard or explosion hazard is present.
- Submit an Underground Storage Tank Unauthorized Release Report (Form No. HSC-05) to SAM within five (5) working days after initial discovery of a leak.
- Comply with subsequent SAM orders for written reporting and corrective action at the Unauthorized Release site.

P 521 513 141

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail *(See reverse)*

Sent to Mr. William Wright	
Street & Number 3007 Regency Hill	
Post Office, State, & ZIP Code Henderson, NV 89014	
Postage	$
Certified Fee	#H19469-001
Special Delivery Fee	D. Felix
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date October 23, 1996	

PS Form **3800**, April 1995

Stick postage stamps to article to cover First-Class postage, certified mail fee, and charges for any selected optional services *(See front).*

1. If you want this receipt postmarked, stick the gummed stub to the right of the return address leaving the receipt attached, and present the article at a post office service window or hand it to your rural carrier *(no extra charge).*

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6. Save this receipt and present it if you make an inquiry.

PS Form **3800**, April 1995 *(Reverse)*

DE

County of San Diego

DANIEL J. AVERA
DIRECTOR

LARRY T. AKER
ASSISTANT DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 85261, SAN DIEGO, CA 92186-5261
(619) 338-2222 FAX (619) 338-2377

SITE ASSESSMENT AND MITIGATION DIVISION

NOTICE OF REIMBURSEMENT RESPONSIBILITY
(REISSUE)

October 15, 1996

Mr. William Wright
3007 Regency Hill
Henderson, NV 89014

Dear Mr. Wright:

UNAUTHORIZED RELEASE #H19469-001
BUY WRIGHT OIL
11427 WOODSIDE AVE., SANTEE, CA 92071-4725

This letter is to notify you of a change in persons identified as responsible parties for the **Unauthorized Release** of hazardous substances from the underground storage tank(s) (UST) at the location referenced above. A previous reimbursement notification may have been sent regarding this site. If this case is resolved, please retain this letter for your records.

The County of San Diego Site Assessment and Mitigation Division (SAM) has identified the following party(ies) as being responsible for the implementation of the environmental investigation and cleanup of this Unauthorized Release:

Wright Companies
Attn: Richard Klipperman
c/o Corporate Management, Inc.
United States Bankruptcy Trustee
P.O. Box 3939
La Mesa, CA 91944-3939

Mr. William Wright
3007 Regency Hill
Henderson, NV 89014

Wigington Petroleum, Inc.
Attn: Jim Wigington
P.O. Box 2504
Spring Valley, CA 92077

Please be advised that Article 4, Chapter 6.75 of the California Health & Safety Code (CH&SC) requires the tank owner, tank operator, or other responsible parties to take corrective action in response to an Unauthorized Release.

Any action or inaction by this local agency associated with corrective action, including responsible party identification, is subject to petition to the State Water Resources Control Board. Petitions must be filed within 30 days from the date of the action/inaction. To obtain petition procedures, please fax your request to Nina Gonzales at the State Water Resources Control Board at (916) 227-4371 or telephone (916) 227-4408.

A determination of secondary responsible party status may be made if it is shown that one or more of the responsible party(ies) is performing corrective action and it is clear that the party seeking secondary status did not in any way initiate or contribute to the actual discharge. If the primary responsible party fails to perform corrective action, then the secondary responsible party will be considered a primary responsible party. To request designation as a secondary responsible party contact the undersigned Hazardous Materials Specialist.

Title 23 of the California Code of Regulations requires the responsible party(ies) to implement **initial corrective action measures** upon the discovery of an Unauthorized Release from a UST system. Enclosed for your information is a listing of initial corrective action measures and applicable notification requirements if these actions have not yet been completed.

Subsequent corrective action requirements will be determined upon SAM evaluation of the UST Unauthorized Release Report and consultation with the Regional Water Quality Control Board and other appropriate regulatory agencies. The responsible party(ies) will be notified of their additional corrective action requirements in writing by SAM. The satisfactory completion of corrective action at the Unauthorized Release site can only be acknowledged through SAM and RWQCB issuance of an official remedial action completion certification to the responsible party(ies).

The federal Petroleum Leaking Underground Storage Tank Trust Fund (Federal Trust Fund) provides funding to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The State Legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks. The direct and indirect costs of overseeing site investigation or remedial action at the above site are funded, in whole or in part, from the Federal Trust Fund. The above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site. YOU ARE HEREBY NOTIFIED that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Sections 25297.1 of the California Health and Safety Code, the above Responsible Party(ies) must reimburse the State Water Resources Control Board not more than 150 percent of the total amount of site

specific oversight costs actually incurred while overseeing the cleanup of the above underground storage tank site, and the above Responsible Party(ies) must make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.

The State Underground Storage Tank Cleanup Fund, provides funding to eligible responsible parties for corrective action and third party liability costs resulting from the Unauthorized Release of petroleum hydrocarbons. For more information on the UST Cleanup Fund, please contact the State Water Resources Control Board at (916) 227-4326.

The County of San Diego is currently the agency responsible for the oversight of your site. You have the right to request the designation of an administering agency to oversee the site investigation and remedial action at this site pursuant to CH&SC, Division 20, Chapter 6.65, Section 25262. See the enclosed letter from the State Water Resources Control Board for more information.

If you have any questions concerning this Notice, please contact the undersigned at (619) 338-2258, or the Division of Clean Water Programs, State Water Resources Control Board, P.O. Box 944212, Sacramento, CA 94244-2120.

Sincerely,

David Felix

DAVID FELIX, Hazardous Materials Specialist
Site Assessment and Mitigation Division

DF:gl

Enclosures

cc: Donna Barnickol, State Water Resources Control Board

CURRENT CASE STATUS: ☐ RESOLVED ON ☑ ACTIVE

_____
MONTH/YEAR

CERTIFIED/RRR

WP\H19469-001

CORRECTIVE ACTION MEASURES

TANK OWNER/OPERATOR RESPONSIBILITIES

The San Diego County Site Assessment and Mitigation Division (SAM) has been notified that an Unauthorized Release has occurred at the underground storage tank site upon which you have been identified as a responsible party. The responsible parties are hereby required to initiate corrective action measures in accordance with the provisions stated below.

Initial Corrective Action Measures

- Maintain the Unauthorized Release site in a manner that does not create public health, safety and environmental hazards.

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- Investigate the Unauthorized Release and prevent further migration of the released substance into the environment.

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- Submit all available information relevant to the underground tank site and the Unauthorized Release, including:

    1. The nature and estimated quantity of release.
    2. Current or potential off-site impacts on land uses, water wells/resources, subsurface utilities, etc.

- Follow the corrective action procedures, guidelines, and engineering controls described in the County of San Diego Site Assessment & Mitigation Manual.

Notification and Reporting Responsibilities

- Notify the local Fire Department and SAM immediately whenever a fire hazard or explosion hazard is present.

- Submit an Underground Storage Tank Unauthorized Release Report (Form No. HSC-05) to SAM within five (5) working days after initial discovery of a leak.

- Comply with subsequent SAM orders for written reporting and corrective action at the Unauthorized Release site.

P 521 513 142

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail *(See reverse)*

Sent to Wigington Petroleum, Inc. Attn: Jim Wigington	
Street & Number P.O. Box 2504	
Post Office, State, & ZIP Code Spring Valley, CA 92077	
Postage	$
Certified Fee	#H19469-001
Special Delivery Fee	D. Felix
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$
Postmark or Date	October 23, 1996

PS Form **3800**, April 1995

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PS Form **3800**, April 1995 *(Reverse)*

D-F

County of San Diego

DANIEL J. AVERA
DIRECTOR

LARRY T. AKER
ASSISTANT DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 85261, SAN DIEGO, CA 92186-5261
(619) 338-2222 FAX (619) 338-2377

SITE ASSESSMENT AND MITIGATION DIVISION

NOTICE OF REIMBURSEMENT RESPONSIBILITY
(REISSUE)

October 15, 1996

Wigington Petroleum, Inc.
Attn: Jim Wigington
P.O. Box 2504
Spring Valley, CA 92077

Dear Mr. Wigington:

UNAUTHORIZED RELEASE #H19469-001
BUY WRIGHT OIL
11427 WOODSIDE AVE., SANTEE, CA 92071-4725

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Wright Companies
Attn: Richard Klipperman
c/o Corporate Management, Inc.
United States Bankruptcy Trustee
P.O. Box 3939
La Mesa, CA 91944-3939

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Henderson, NV 89014

Wigington Petroleum, Inc.
Attn: Jim Wigington
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specific oversight costs actually incurred while overseeing the cleanup of the above underground storage tank site, and the above Responsible Party(ies) must make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board.

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The County of San Diego is currently the agency responsible for the oversight of your site. You have the right to request the designation of an administering agency to oversee the site investigation and remedial action at this site pursuant to CH&SC, Division 20, Chapter 6.65, Section 25262. See the enclosed letter from the State Water Resources Control Board for more information.

If you have any questions concerning this Notice, please contact the undersigned at (619) 338-2258, or the Division of Clean Water Programs, State Water Resources Control Board, P.O. Box 944212, Sacramento, CA 94244-2120.

Sincerely,

David Felix

DAVID FELIX, Hazardous Materials Specialist
Site Assessment and Mitigation Division

DF:gl

Enclosures

cc: Donna Barnickol, State Water Resources Control Board

CURRENT CASE STATUS: ☐ RESOLVED ON _____ ☑ ACTIVE

MONTH/YEAR

CERTIFIED/RRR

WP\H19469-001

CORRECTIVE ACTION MEASURES

TANK OWNER/OPERATOR RESPONSIBILITIES

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- Investigate the Unauthorized Release and prevent further migration of the released substance into the environment.
- Remedy hazards posed by contaminated soils that are exposed or excavated as a result of release confirmation, site investigation, or abatement activities.
- Submit all available information relevant to the underground tank site and the Unauthorized Release, including:

  1. The nature and estimated quantity of release.
  2. Current or potential off-site impacts on land uses, water wells/resources, subsurface utilities, etc.

- Follow the corrective action procedures, guidelines, and engineering controls described in the County of San Diego Site Assessment & Mitigation Manual.

Notification and Reporting Responsibilities

- Notify the local Fire Department and SAM immediately whenever a fire hazard or explosion hazard is present.
- Submit an Underground Storage Tank Unauthorized Release Report (Form No. HSC-05) to SAM within five (5) working days after initial discovery of a leak.
- Comply with subsequent SAM orders for written reporting and corrective action at the Unauthorized Release site.

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH

M E M O R A N D U M

TO: Donn Lipera, David Felix, and Carol Spangenberg DATE: 5/6/96

FROM: Darryl Fowler, LOP Dude

RE: Change in RP Status for Express Gas

Please review this Interoffice Memo from Donna Barnickol and make the appropriate changes. If the information in the memo is confirmed, the changes must include RP master update and a reissue of the NOR. Keep in touch.

If you have any questions, sorry you're on your own.

Just kiddin' people!

interoffice
MEMORANDUM

to: Darryl Fowler
San Diego County SAM
from: Donna Barnickol
subject: Express Gas Sites
date: April 29, 1996

I have received a letter from Ann Poppe representing Richard M. Kipperman, one of the RPs for various Express Gas sites. She indicated that for the following sites, the properties were transferred (per the Fourth Amended Plan of Reorganization) as follows:

H03087-001 to Fletcher Oil and Refining Company
PO Box 548
Wilmington, CA 90748

H19469-001 to Wigington Petroleum, Inc.
PO Box 2504
Spring Valley, CA 92077

fax and fyi service 5/6/96
New NOV 10/14/96 dlf

Please research the assessors office records and name the new properties owners as RPs, if appropriate.

The letter also informed us the following Express Gas sites (c/o Richard Kipperman, Bankruptcy Trustee) were not a part of the bankruptcy estate. This is not correct--they were a part of the estate, however, in reviewing my files I see that on 2/4/94 we were notified that the sites were no longer property of the bankruptcy estate. I conferred with Dorothy Jones about whether or not to keep Express Gas on as an RP since the other RP for each of the sites is paying the LOP costs. She said that, based on the 2/4/94 directive, it would be okay to delete them as an RP.

H21185-001
8001 Othello
San Diego, CA

H21452-001
5454 Balboa
San Diego, CA

H20233-001 message to H. D. Remove
1313 2nd Street
El Cajon, CA

H20116-001
12 N. 4th Street
Chula Vista, CA

If you have any questions, please call me at (916) 227-4306.

Post-it® Fax Note 7671	Date 4/29/96	# of pages ▶ 1
To Darryl Fowler	From D. Barnickol	
Co./Dept. San Diego Co-SAM	Co. SWRCB-LOP	
Phone # (619) 338-2371	Phone # (916) 227-4306	
Fax # (619) 338-2377	Fax # (916) 227-4349	

H19469-001

AS08 3823200600

* * * ASSESSOR*S PROPERTY SYSTEM * * *

382-320-06-00 SITE:11427 WOODSIDE AVE* TRA:16007
PD:1BLK 6*LOT 2*PAR AS PER ROS MAP NO 1477* STATUS:T
ZONE:M USE:BULK STORAGE (TANKS, ETC) ACRES:00001.15 S-R:

OWNR:CONS#WIGINGTON PETROLEUM INC\
CODES: 1 DOC#:582534 DATE:10/03/94 ZIP:91979
MAIL:P O BOX 2504*SPRING VALLEY CA\

151,665	LAND				MAP#:000817	
96,054	IMPS	PRIOR PN:	- - -	ORIGIN	CUT#:	YR:
0	PP			REDRAFT	CUT#:	YR:
0	X	PRIOR TRA:86010		TRA	CUT#:005122	YR:81

COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES

M E M O R A N D U M

TO: Dave Felix DATE: 2/15/96

FROM: Darryl Fowler, LOP Coordinator

RE: Current Status of H19469-001,002

On 2/15/96 Judy Reid, SWRCB and I discussed the current site status of Wigington Petroleum and El Capitan Associates (H19469-001 and 002). I provided Judy Reid with a brief chronology of events for this case. We also discussed DEH understanding of the events surrounding the RP's bankruptcy. I further explained that DEH was not clear on RP identification such as the property ownership, the results of the bankruptcy and tank owner or operator information. I informed Ms Reid that Donna Schimeck, SWRCB directed DEH not to work on the case since the RP was unknown.

Judy Reid informed me that she will contact Mr. Wigington and request information regarding the bankruptcy status and results and property ownership. Ms Reid explained that if she did not get the requested information to verify RP status or property ownership status then she will not complete the application process for cleanup funds.

Judy Reid will notify DEH on their application status after they complete their evaluation.

MEETING/PHONE/PEER REVIEW

RECORD

H _____-___
DATE: 12/12/95
TIME: 4:30
PAGE ___ OF ___
SPEC:

(Check One)

[] Meeting Minutes

Meeting Location: _____
(Attach Sign-up Sheet HM-9048)

[X] Telephone Conversation

Phone: (____) ____-_____
Name: _____

[] Peer Review

Name: Pete Strang & Fred Adler

TOPIC: # Wrigley Petroleum

SUMMARY: Want to redevelop wells. ~~Also~~ Sample, put in new well on property line.

I suggested submittal of W.P. ~~to~~ Sample to help in placement of additional well(s).

well should be down gradient & off site.

Philosophy is - control of spreading H.C.

We need to clean up while site remains a tank fuel depot.

STATE OF CALIFORNIA - CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

PETE WILSON, Governor

STATE WATER RESOURCES CONTROL BOARD

DIVISION OF CLEAN WATER PROGRAMS
2014 T STREET, SUITE 130
P.O. BOX 944212
SACRAMENTO, CALIFORNIA 94244-2120
(916) 227-4520
(916) 227-4349 FAX

SEP 25 1995

TO: Interested Responsible Parties

OPTION TO REQUEST DESIGNATION OF AN AGENCY TO OVERSEE UNDERGROUND STORAGE TANK (UST) LEAK CLEANUP

Responsible parties who are required to take corrective action at UST leak sites have the option to request designation of a single administering agency to implement and issue a final site certification covering all applicable cleanup laws. In so doing, responsible parties have the option of dealing with one agency, rather than multiple state and local agencies. The site designation process was established by Assembly Bill 2061 (Chapter 6.65 of the Health and Safety Code).

Chapter 6.65 allows responsible parties to request that a single state or local agency be assigned to oversee corrective action at sites including UST leak sites. Requests must be submitted as applications to the Site Designation Committee. This committee is made up of the Secretary of California Environmental Protection Agency, the Director of Department of Toxic Substances Control, the Chair of State Water Resources Control Board, the Director of the Department of Fish and Game, the Chair of the Air Resources Board, and the Director of the Office of Environmental Health Hazard Assessment, or their representative.

Applications must identify the agency proposed to oversee site investigation and cleanup. Based on factors contained in Chapter 6.65, the committee will decide whether the requested agency is qualified to oversee cleanup of the site under consideration.

Before filing applications, responsible parties should consult with the agency currently overseeing corrective action. Their staff will be able to provide information that will help you decide whether to take this option. If the agency that you have requested as the administering agency is not currently overseeing the corrective action, you should discuss your application with that agency.

If you have concerns about this letter or would like to obtain a copy of the site designation information package, which includes the application, please call Ms. Lisa Maddaus of the Division of Clean Water Programs at (916) 227-4520. In addition, this information is being made available through personal computer modem access on the SWRCB Bulletin Board (916-657-9722; Internet at http://www.swrcb.ca.gov) and Cal/EPA Access (916-322-5041; Internet at http://www.cahwnet.gov/epa).

Sincerely,

James Cornelius

James Cornelius, Chief
Program Support Branch

STATE OF CALIFORNIA - CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY PETE WILSON, *Governor*

STATE WATER RESOURCES CONTROL BOARD
DIVISION OF CLEAN WATER PROGRAMS
2014 T STREET, SUITE 130
P.O. BOX 944212
SACRAMENTO, CA 94244-2120

916/227-4306
Facsimile 916/227-4349

RECEIVED
JUL 31 8 49 AM '95
ENVIRONMENTAL HEALTH SERVICES

JUL 27 1995

David Colvin
Cohen, Johnson & Day
301 East Clark Avenue #870
Las Vegas, NV 89101

Dear Mr. Colvin:

UNDERGROUND STORAGE TANK (UST) LOCAL OVERSIGHT PROGRAM, BANKRUPTCY CASE NO. BK-S-89-03914 LBR, WRIGHT COMPANIES, 11427 WOODSIDE AVENUE, SANTEE, CA, SITE NO. H19469-001, SAN DIEGO COUNTY

This will confirm our recent telephone conversation regarding the above bankruptcy case. We filed a proof of claim for $2,192.36 for San Diego County UST oversight services in January 1991 (copy enclosed). As of this time, we have not received any payment on the claim. We would appreciate an update on what is happening regarding this issue. The County has incurred additional costs since 1991 and the outstanding balance through December 1994 is $3,449.40. We will soon file an amended proof of claim including the additional costs.

We would also appreciate any information you can obtain regarding who is going to assume responsibility for cleaning up the contamination at the above location. If you need additional information regarding the remediation requirements, please call Darryl Fowler, San Diego County Site Assessment and Mitigation, at (619) 338-2371.

If you have any questions regarding the oversight costs, please call me at (916) 227-4306.

Sincerely,

Donna Schimeck

Donna Schimeck
Local Oversight Program

Enclosure

cc: Darryl Fowler
San Diego County SAM
PO Box 85261
San Diego, CA 92186-5261

MEETING/PHONE/PEER REVIEW

RECORD

H _____-___
DATE: 3/13/95
TIME: 5:30
PAGE ___ OF ___
SPEC:

(Check One)

[] Meeting Minutes

Meeting Location: _____
(Attach Sign-up Sheet HM-9048)

[X] Telephone Conversation

Phone: (____) ____-____
Name: _____

[] Peer Review

Name: Peter Strang

TOPIC: H Bay Wright

SUMMARY: Question on additional well + abandonment of well in office. Separate issues - state will probably not reimburse for the well in building.
Old wells need re development, check seals then a round of sampling.

MEETING/PHONE/PEER REVIEW

RECORD

H 19469 - 001	
DATE: 2/14/95	
TIME: 4:44	
PAGE ___ OF ___	
SPEC:	

(Check One)

[ ] Meeting Minutes

Meeting Location: _____
(Attach Sign-up Sheet HM-9048)

[X] Telephone Conversation

Phone: (____) ____-____
Name: _____

[ ] Peer Review

Name: mike Gibbs (Crecotech)

TOPIC: Barry Wright

SUMMARY: Wigginton was to get on with LUST work. I said review last Crecotech report Well delineation completed on south side. Cleanup of soil needed offsite, G.W. control may be needed at property edge.

D. Felix

ROBERT K. ROSS, M.D.
DIRECTOR

County of San Diego

DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

OFFICE OF THE DEPUTY DIRECTOR
P. O. BOX 85261
SAN DIEGO, CA 92186-5261
(619) 338-2222
Fax #: 338-2174

HAZARDOUS MATERIALS MANAGEMENT DIVISION
P.O. BOX 85261
SAN DIEGO, CA. 92186-5261
(619) 338-2222

October 26, 1993

Wigington Petroleum Inc. dba El Capitan Oil Co.
c\o Jim Wigington
11427 Woodside Ave.
Santee, CA 2071-4725

Dear Mr. Wigington:

RE: FOLLOW-UP TO RESPONSE ON UNDERGROUND STORAGE TANK AND BUSINESS PLAN COMPLIANCE

The Hazardous Materials Management Division (HMMD) is in receipt of your correspondence dated September 13, 1993. Your response provided our office with an update on your underground storage tank (UST) monitoring compliance actions and a facility Business Plan. This letter is to address several issues regarding your correspondence, and to provide guidance in several areas of concern.

The HMMD is in receipt of the daily inventory reconciliation records for the months of March 1993 through July 1993, on your seven (7) single-wall product USTs, and one (1) single-wall waste oil UST. While daily calculations were not conducted on the seven product USTs for the month of March, the records appear to be complete for the remaining months. The HMMD is satisfied that you are in compliance with the protocol for daily inventory reconciliation as specified in the California Code of Regulations (CCR), Title 23, Section 2646.

However, the records for the waste oil UST indicate that you are sticking this UST daily, and not following the protocol specified in 23 CCR, Section 2645, for weekly gauging. Daily inventory reconciliation of the waste oil UST is not possible, as this UST is not metered. To comply with weekly gauging, four (4) liquid level measurements must be taken, with the average of two readings constituting one measurement. The first measurement must be taken at least 12 hours after product input or withdrawal, and a second

measurement at least 36 hours after the first measurement. These two measurements are compared to a weekly standard, and the average of the four week period (i.e., monthly) is then compared to a monthly standard. Please review pages 21 and 22 of the HMMD-UST Handout, and begin using the appropriate record-keeping procedure.

Integrity test results have been received and appear to be acceptable. However, the receipts from H&H Fuel Systems for repairs done on UST vapor lines [repipe of vapor line on 4,000 gallon Trick UST, and installation of vapor manifolds on unleaded and super USTs], appear to have been done without first obtaining authorization (permits) from the HMMD. Contact Mary Peters at (619) 338-2077, for further guidance on activities specific to UST vapor line repipe work.

A copy of the functional check conducted by Alm Services has been accepted as demonstrating compliance for the repair and functional check of the leak detection system [Tankguard] on the 4,000 gallon double-wall UST. However, a copy of your written plan on routine monitoring and release response for this UST, as required by Title 23, CCR, Section 2632 has still not been received by the HMMD.

With respect to your submission of a copy of the State Water Resources Control Board (SWRCB) Cleanup Fund claim acceptance (#912 -dated April 22, 1992), please note that this does not constitute compliance with the UST financial responsibility requirements. Reimbursement for monies spent on site assessment and mitigation activities as the result of UST which has experienced an unauthorized release is a separate issue from the financial responsibility coverage. Enclosed is a handout describing the State's financial responsibility requirements for your information.

The SWRCB has indicated to the HMMD that your site claim has been ranked #511 on the C-List, in the Cleanup Fund Revised Priority List, dated June 1, 1993. Per conversation with Diana Romero, of the SWRCB Cleanup Fund Program, your claim has not been officially reviewed by their staff. However, if your Cleanup Fund claim is reviewed and rejected by the State, this will also constitute ineligibility to use the Cleanup Fund Assurance Program for financial responsibility coverage. Furthermore, a rejected Cleanup Fund claim is viewed as rejection from the financial responsibility coverage until an appeal decision reverses the situation. Thus, the HMMD is encouraging you to demonstrate compliance of this facility with **both** the UST monitoring **and** the site assessment activities, which have been passed on to you by the previous facility operator. Please contact David Felix, with the Site Assessment and Mitigation Division, at 338-2258, for activities specific to site cleanup requirements.

Please review the HMMD-UST handout; complete the financial responsibility certification form provided; and submit a copy of

the completed form to the HMMD no later than December 31, 1993. This form requires that you specify the type and amount of coverage used including the $10,000 of coverage not covered by the SWRCB Assurance Fund. Remember that the regulations require you to maintain a copy of this document on-site and readily available during inspections.

I checked the SWRCB Guidance Bulletin #113-9 and confirmed that the only Alert Technologies Inc. device listed as acceptable equipment for automatic tank gauging (ATG), in California, is their **Model 2000 In-Tank Mass Measurement Probe System.** While this device is certified for a leak rate of 0.2 gallons per hour, please note that this device has a minimum data collection (test period) time of 2 hours; a requirement for annual calibration of the mass measurement probe and water sensor; and it does not automatically generate a printout of the leak test result. The HMMD will require that you maintain a printout of the monthly test results and we understand that this can be done by transferring the data to another unit with printing capabilities. Please note that the Federal UST regulations for monitoring with an ATG requires that you also use the error-corrected liquid level results for daily inventory reconciliation. The HMMD will update our records to reflect compliance with monitoring of the seven (7) product USTs, upon receipt of a work order/receipt demonstrating this device was installed by a certified petroleum equipment specialist.

Your facility Business Plan has been reviewed and two of the five items were found to be unacceptable. The site map requires minor modifications in order to be acceptable. The HMMD requests that the map be constructed with all the information specified in the handout. Your map does not provide the following: the form header information; the North arrow in the upper left corner; the nearest cross-street; surrounding property uses; emergency response equipment location; evacuation staging area; the main utility shut-offs; the hazardous materials symbols; the above and below-ground tank capacities; sprinkler or standpipe connections; nor the locations of Material Safety Data Sheets (MSDS) and the Business Plan. Please review the instructions in the Business Plan Site Map section for additional guidance, and **resubmit the site map within 30 calendar days.** We can assist you in redrawing the site map if you wish.

The hazardous materials disclosure of inventory was also incomplete and unacceptable. Your inventory did not include the aboveground storage tanks which we have disclosed, and included some materials that should not have been included in the inventory. For example, the inventory instructions specifically states not to include inventory stored in underground storage tanks. For your convenience, I have updated the facility disclosure, and have attached a copy of the inventory that the HMMD currently has in our records for this facility.

The HMMD concurs with your 5-year compliance plan, simply described as closure of all existing USTs and replacement with secondarily-contained USTs. This office will presume that your plan includes permanent closure of the waste oil UST, without a replacement UST system, as your correspondence only reference replacement of fuel USTs. Please note that nonmotor vehicle fuel USTs **must** comply with secondary containment by December 22, 1998, thus any fresh oil, solvent, or waste oil USTs at this facility will require secondary containment.

Please contact me at (619) 441-6651, if you have any questions regarding the contents of this letter.

Sincerely,

Christina Graulau

CHRISTINA GRAULAU, Supervising Hazardous Materials Specialist
Hazardous Materials Management Division

CG:gl

Encls: Business Plan Site Map
Attachment A: Current HMMD Inventory Disclosure List
Financial Responsibility Handout

cc: Mary Peters, EHS-SAM UST Plan Check
David Felix, EHS-SAM
File H#19469

Certified Mail/RRR

Item #	Product Description	Storage	Max Capacity	Annual Capacity
D001	AW-68 Hydraulic Oil	AS3	6,000 gal	6,000 gal
D002	30 Wt Oil	AS4	6,000 gal	6,000 gal
D003	15-40 Wt Oil	AS3	10,000 gal	10,000 gal
D004	40 Wt Oil	AS4	6,000 gal	6,000 gal
D005	Universal TDH	DM5	165 gal	165 gal
D006	Diesel	AS4	10,000 gal	10,000 gal
D007	Kerosene	AS3	6,700 gal	13,400 gal
D008	Solvent	AS1	1,000 gal	2,000 gal
D009	Acetone	DM5	110 gal	1,000 gal
D010	Propane	AS1	550 gal	550 gal
D011	Lubrication Oils	CF	6,880 gal	14,800 gal

(*Only two of the ten aboveground storage tanks were empty during the March 1993 inspection)

Feliy

County of San Diego

DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

OFFICE OF THE DEPUTY DIRECTOR
P. O. BOX 85261
SAN DIEGO, CA 92186-5261
(619) 338-2222
Fax #: 338-2174

HAZARDOUS MATERIALS MANAGEMENT DIVISION
P. O. BOX 85261
SAN DIEGO, CA 92186-5261
(619) 338-2222

August 19, 1993

El Capitan Oil Co.
c/o Jim Wigington
11427 S. Woodside Ave.
Santee, CA 92017

NOTICE OF VIOLATION

Dear Mr. Wigington:

RE: UNDERGROUND STORAGE TANK AND BUSINESS PLAN COMPLIANCE

This Notice is to follow-up with our telephone conversations on July 14 & 19, 1993, as well as the compliance inspection conducted on March 8, 1993 by this office. Records with the Hazardous Materials Management Division (HMMD) indicate that your facility continues to be in violation with the minimum underground storage tank (UST) monitoring and Business Plan requirements. This Notice will require you, as the UST operator, to submit evidence of corrective action with ongoing issues specified in this Notice, no later than **October 1, 1993.**

The HMMD has advised you on several occasions that effective January 1, 1993, existing single-wall USTs in areas of high groundwater can no longer use daily inventory reconciliation (DIR) as part of the monitoring program [Title 23 California Code of Regulations (CCR) Sec 2646]. You must develop and implement a UST monitoring program that accounts for the presence of high groundwater for the eight (8) single-wall fuel tanks at the site.

The 550 gallon waste oil UST is not affected by the high groundwater requirement although HMMD records indicate that you were directed to comply with the minimum monitoring requirement of weekly tank gauging. To demonstrate compliance, the HMMD is requesting that you submit a copy of the weekly gauging records from March through July, 1993 for this UST system.

The 4,000 double-wall UST is subject to other monitoring requirements. Title 23 CCR, Section 2632 specifically requires a written routine monitoring procedure, a written release response plan, and an annual functional check on the leak detection system [Tankguard]. During our telephone conversation you stated Alm Services installed a new probe for this system. You must submit a copy of the functional check conducted by Alm Services to the HMMD, and a copy of your written plan for routine monitoring and release response for this particular UST.

The issue of UST monitoring compliance is also important with respect to the financial responsibility requirements, which you must comply with by December 31, 1993. During our March 8, 1993 compliance visit, you indicated your intention to include a portion of the financial responsibility coverage through the Cleanup Fund Program operated by the State Water Resources Control Board (SWRCB). The HMMD understands that eligible UST owners/operators may demonstrate up to $990,000 of financial responsibility coverage for the USTs at their facility and may seek cost recovery up to this amount in the event of a release from a UST system.

However, the HMMD is aware that compliance with the UST permit and monitoring requirements are essential for demonstrating eligibility in the SWRCB Cleanup Fund Program. Until this facility complies with the minimum UST monitoring requirements, the HMMD will not acknowledge the use of the SWRCB Cleanup Fund Program as a means of financial responsibility coverage. Please note the regulations require that you keep a signed copy of the financial responsibility certification demonstrating the type and amount of coverage. A copy of this document must be kept onsite and readily available during inspections.

You have stated that your current financial situation makes it difficult to comply with UST monitoring requirements. The HMMD suggests you contact the State Department of Commerce, Office of Small Business, Underground Storage Tank Loan Program at (916) 445-6733 to inquire about your eligibility for a low-interest loan to permanently close or upgrade your USTs. This office may also be reached at their mailing address: 801 K street, Suite 1600, Sacramento, CA 95814.

Finally, HMMD records also show this facility is in violation of the California Health and Safety Code (HSC), Chapter 6.95, for failing to have a Business Plan. During our meeting on February 25, 1992, you were advised of the Business Plan requirements. Subsequently, we granted a extension of time on March 8, 1993 for complying with the Business Plan as you stated the property escrow would soon be resolved. However, during our July, 1993, phone conversations you stated that escrow was still not resolved.

Regardless of whether escrow has closed, the HMMD is requesting that you comply with the Business Plan requirements as soon as possible. For your convenience, I have enclosed a blank copy of our Business Plan handout. You must provide a completed copy of the following: 1) Emergency Response Outline 2)Emergency Coordinator Information 3) Complete and detailed Site Map (using standardized symbols) 4) Chemical Inventory Subject to Disclosure and 5) an Employee Training Outline.

A written response specifically addressing the UST issues identified in this letter, along with supporting documentation, is requested no later than **October 1, 1993.** Although you stated that you had prepared and submitted a written response regarding these issues before, to date the HMMD has not received any such documents. Please contact me at (619) 441-6651, if you have any questions regarding this Notice.

Sincerely,

Brian S. Gordon for Christina Graulau

CHRISTINA GRAULAU, Supervising Hazardous Materials Specialist
Hazardous Materials Management Division

CG:cad

Enclosure: Business Plan Handout

cc: City of Santee Fire Department, Fire Marshall
File H#19496

Certified Mail/RRR

H19469

August 16, 1993

El Capitan Oil Co.
c/o Jim Wigington
11427 S. Woodside Ave
Santee, CA 92017

NOTICE OF VIOLATION

Dear Mr. Wigington,

RE: UNDERGROUND STORAGE TANK AND BUSINESS PLAN COMPLIANCE

This Notice is to follow-up with our telephone conversations on July 14 & 19, as well as the compliance inspection conducted on March 8, 1993. Records with the Hazardous Materials Management Division (HMMD) indicate this facility continues to be in violati with the minimum underground storage tank (UST) monitoring, and Business Plan requirements. This Notice is to direct you, as the UST operator, to submit evidence of corrective action, with items specified in this Notice, no later than October 1, 1993.

The HMMD has advised you on several occasions that effective January 1, 1993, existing single-wall USTs in areas of high groundwater can no longer use daily inventory reconciliation (DIR as part of the monitoring program [23 California Code of Regulati You must develop and implement a UST monitoring program that accounts for the presence of high groundwater, for the eight single-wall fuel USTs at this facility.

The 550 gallon waste oil UST is not affected by the high groundwater requirement, although the HMMD records indicate that you were directed to comply with the minimum monitoring of weekly gauging for this UST system. To demonstrate compliance, the HMMD is requesting that you submit a copy of the weekly gauging record from March through July 1993 for this UST system.

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compliance visit, you indicated intentions to show a portion of t financial responsibility coverage through the Cleanup Fund Progra operated by the State Water Resources Control Board. The HMMD understands that eligible UST owners/operators may demonstrate up to $990,000 of financial responsibility coverage for the USTs at their facility, and may seek cost recovery up to this amount in t event of a release from a UST system.

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Sincerely,

CHRISTINA GRAULAU, Supervising Hazardous Materials Specialist
Hazardous Materials Management Division

Enclosure: Business Plan Handout

cc: File H#19496

bcc: Desiree Hogervorst, HMMD-ICP
David Felix, EHS-SA/M



FORMER BUY WRIGHT H19469
7/21/93

7/21/93

J. WILLIAM COX, M.D., Ph.D
DIRECTOR
[redacted]

County of San Diego

DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

OFFICE OF THE DEPUTY DIRECTOR
P. O. BOX 85261
SAN DIEGO, CA 92186-5261
(619) 338-2211
Fax #: 338-2174

HAZARDOUS MATERIALS MANAGEMENT DIVISION
P. O. BOX 85261
SAN DIEGO, CA 92186-5261
(619) 338-2222

September 30, 1992

NOTICE OF REIMBURSEMENT RESPONSIBILITY

William Wright
3007 Regency Hill
Henderson, NV 89014

Dear Mr. Wright:

RE: UNAUTHORIZED RELEASE #T0948/H19469-001
BUY WRIGHT OIL, 11427 WOODSIDE AV., SANTEE, CA 92071-4725

This letter is to notify you of the billing procedure for the unauthorized release (leak) investigation at the above referenced underground storage tank site. The County of San Diego is under contract with the State Water Resources Control Board (SWRCB) to oversee the investigation and remediation (clean-up) of unauthorized releases. All costs incurred on this case by the Hazardous Materials Management Division (HMMD) are being invoiced to the SWRCB who will bill you.

A previous reimbursement notification may have been sent regarding this site. If this case is resolved, please retain this letter with your records. Active cases should be resolved in a prompt and effective manner to help minimize the amount billed by the SWRCB.

The HMMD has identified the following party(ies) as being responsible for the implementation of the environmental investigation and cleanup of this Unauthorized Release:

Wright Companies
Attn: William Wright
c/o Corporate Management, Inc.
United States Bankruptcy Trustee
P.O. Box 3939
La Mesa, CA 91944-3939

William Wright
3007 Regency Hill
Henderson, NV 89014

The California Health and Safety Code (HS&C) Chapters 6.7 and 6.75 requires the tank owner, tank operator, property owner or other responsible parties to take corrective action in response to an Unauthorized Release. The California Code of Regulations (CCR), Title 23, Division 3, Chapter 16, Underground Storage Tank Regulations provides the release reporting and initial abatement requirements.

With regard to the contract, the SWRCB requires the HMMD notify you of the following:

> *"Whereas the federal Petroleum Leaking Underground Storage Tank Trust Fund provides funding to pay the local agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks; and Whereas the Legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks; and Whereas the direct and indirect costs of overseeing removal or remedial action at the above site are funded, in whole or in part, from the federal Trust Fund; and Whereas the above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site; YOU ARE HEREBY NOTIFIED that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Sections 25297.1 and 25360 of the Health and Safety Code, the above Responsible Party or Parties shall reimburse the State Water Resources Control Board the following:*
>
> *FOR all direct and indirect costs incurred by any and all state and local agencies while overseeing the cleanup of the above referenced underground storage tank site (prior to January 1, 1991); FOR not more than 150 percent of the total amount of site specific oversight costs actually incurred while overseeing the cleanup of the above underground storage tank site (beginning January 1, 1991); and the above Responsible Party or Parties shall make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board."*

The Underground Storage Tank (UST) Cleanup Fund provides funding to eligible responsible parties for corrective action and third party liability costs resulting from the unauthorized release of petroleum hydrocarbons. For more information on the UST Cleanup Fund, please contact the SWRCB at (916) 739-2475.

If you have any questions concerning this Notice, please contact the undersigned at (619) 338-2258.

Sincerely,

David Felix

DAVID FELIX, Hazardous Materials Specialist
Hazardous Materials Management Division

DF:hd

cc: Sandra L. Malos, State Water Resources Control Board
UGST Program Manager, San Diego Regional Water Quality Control Board

CURRENT CASE STATUS: ☐ RESOLVED ON ☑ ACTIVE

MONTH/ YEAR

WP\T0948.2

County of San Diego

J. WILLIAM COX. M.D., Ph.D
DIRECTOR
[redacted]

DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

OFFICE OF THE DEPUTY DIRECTOR
P. O. BOX 85261
SAN DIEGO, CA 92186-5261
(619) 338-2211
Fax #: 338-2174

HAZARDOUS MATERIALS MANAGEMENT DIVISION
P. O. BOX 85261
SAN DIEGO, CA 92186-5261
(619) 338-2222

September 29, 1992

NOTICE OF REIMBURSEMENT RESPONSIBILITY

Wright Companies
Attn: William Wright
c/o Corporate Management, Inc.
United States Bankruptcy Trustee
P.O. Box 3939
La Mesa, CA 91944-3939

Dear Mr. Wright:

RE: UNAUTHORIZED RELEASE #T0948/H19469-001
BUY WRIGHT OIL, 11427 WOODSIDE AV., SANTEE, CA 92071-4725

This letter is to notify you of the billing procedure for the unauthorized release (leak) investigation at the above referenced underground storage tank site. The County of San Diego is under contract with the State Water Resources Control Board (SWRCB) to oversee the investigation and remediation (clean-up) of unauthorized releases. All costs incurred on this case by the Hazardous Materials Management Division (HMMD) are being invoiced to the SWRCB who will bill you.

A previous reimbursement notification may have been sent regarding this site. If this case is resolved, please retain this letter with your records. Active cases should be resolved in a prompt and effective manner to help minimize the amount billed by the SWRCB.

The HMMD has identified the following party(ies) as being responsible for the implementation of the environmental investigation and cleanup of this Unauthorized Release:

Wright Companies
Attn: William Wright
c/o Corporate Management, Inc.
United States Bankruptcy Trustee
P.O. Box 3939
La Mesa, CA 91944-3939

William Wright
3007 Regency Hill
Henderson, NV 89014

The California Health and Safety Code (HS&C) Chapters 6.7 and 6.75 requires the tank owner, tank operator, property owner or other responsible parties to take corrective action in response to an Unauthorized Release. The California Code of Regulations (CCR), Title 23, Division 3, Chapter 16, Underground Storage Tank Regulations provides the release reporting and initial abatement requirements.

With regard to the contract, the SWRCB requires the HMMD notify you of the following:

> *"Whereas the federal Petroleum Leaking Underground Storage Tank Trust Fund provides funding to pay the local agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks; and Whereas the Legislature has authorized funds to pay the local and state agency administrative and oversight costs associated with the cleanup of releases from underground storage tanks; and Whereas the direct and indirect costs of overseeing removal or remedial action at the above site are funded, in whole or in part, from the federal Trust Fund; and Whereas the above individual(s) or entity(ies) have been identified as the party or parties responsible for investigation and cleanup of the above site; YOU ARE HEREBY NOTIFIED that pursuant to Title 42 of the United States Code, Section 6991b(h)(6) and Sections 25297.1 and 25360 of the Health and Safety Code, the above Responsible Party or Parties shall reimburse the State Water Resources Control Board the following:*
>
> *FOR all direct and indirect costs incurred by any and all state and local agencies while overseeing the cleanup of the above referenced underground storage tank site (prior to January 1, 1991); FOR not more than 150 percent of the total amount of site specific oversight costs actually incurred while overseeing the cleanup of the above underground storage tank site (beginning January 1, 1991); and the above Responsible Party or Parties shall make full payment of such costs within 30 days of receipt of a detailed invoice from the State Water Resources Control Board."*

The Underground Storage Tank (UST) Cleanup Fund provides funding to eligible responsible parties for corrective action and third party liability costs resulting from the unauthorized release of petroleum hydrocarbons. For more information on the UST Cleanup Fund, please contact the SWRCB at (916) 739-2475.

If you have any questions concerning this Notice, please contact the undersigned at (619) 338-2258.

Sincerely,

David Felix

DAVID FELIX, Hazardous Materials Specialist
Hazardous Materials Management Division

DF:hd

cc: Sandra L. Malos, State Water Resources Control Board
UGST Program Manager, San Diego Regional Water Quality Control Board

CURRENT CASE STATUS: ☐ RESOLVED ON _____ ☑ ACTIVE

MONTH/ YEAR

WP\T0948.1

MEETING/PHONE/PEER REVIEW

RECORD

H 19469-001
DATE: 2/25/92
TIME: 2:30
PAGE ___ OF 1
SPEC: D. Tully

(Check One)

[X] Meeting Minutes

[ ] Telephone Conversation

[ ] Peer Review

Meeting Location: Corporate Mgt
(Attach Sign-up Sheet HM-9048) 8885 Rio San Diego Dr

Phone: (____) _____ - _____

Name:

Name: McGuppenan, Richard M. Trustee

TOPIC: Bing Wright

SUMMARY: Alan C. Franklin, Jim Wrington C.C. reviewed permit reqs. to operate I reviewed site assessment needs - 2 wells monitoring if not offsite

J.W. does not own property yet, must decide after June 92. Like to operate. Says he wants to comply with all laws.

I said until then someone else is owner of property, there isn't little benefit in doing / giving lots of detail.

J.W. says D. Tranaway has been contacted for Environmental. Tranaway should contact me.

C.C. issued 2 NOV's at meeting

COUNTY OF SAN DIEGO

EST. NUMBER H 19469
PAGE 1 OF 2
SPECIALIST: GRAULAU
PHONE 441-6651

NOTICE OF VIOLATION

BUSINESS NAME EL CAPITAN OIL / BUY WRIGHT OIL / CORPORATE MGMT
BUSINESS ADDRESS 11427 WOODSIDE AVE City SANTEE ZIP 92071
~~OWNERS~~ TRUSTEE NAME RICHARD KIPPERMAN / AS Bankruptcy Trustee for W. Wright PHONE 668-4501
~~OWNERS~~ TRUSTEE ADDRESS 8085 LA MESA BL SUITE #220 CITY LA MESA ZIP 91944

On the date below, an inspection of your business was conducted under the authority of section 25185 of the California Health and Safety Code. This inspection was conducted with the purpose of determining compliance with Chapters 6.5; 6.7; 6.95 of the California Health and Safety Code and/or applicable State or Local regulations. The following statements describe violations of law and are intended to provide guidance to correct the violations noted. You are currently in violation of law and may be subject to further legal action. Failure to correct these violations in a timely manner may be a factor in determining the course of further legal action.

THIS NOTICE IS TO FOLLOW-UP ON AN OFFICIAL NOTICE ISSUED TO EL CAPITAN OIL (JIM WIGGINGTON), ISSUED ON FEBRUARY 19, 1992 AND THE NOTICE OF VIOLATION ISSUED TO BUY WRIGHT OIL (THOMAS BOLGER - RECEIVER), ISSUED ON MAY 8, 1991, AND TELEPHONE CONVERSATIONS WITH REPRESENTATIVES OF CORPORATE MANAGEMENT, (BANKRUPTCY TRUSTEES FOR WILLIAM WRIGHT). THE HMMD UNDERSTANDS THE PROPERTY REFERENCED ABOVE HAS NOT BEEN FORMALLY RELINQUISHED TO MR. WIGGINGTON; HOWEVER MR. WIGGINGTON HAS BEEN OPERATING THE FACILITY AND HOLDS A DEED INTEREST IN THE PROPERTY. UNDERGROUND STORAGE TANK LAWS AND REGULATIONS REQUIRE THE TANK OWNER OR/AND TANK OPERATOR COMPLY WITH UST PERMITTING; MONITORING; RELEASE REPORTING; SITE CHARACTERIZATION - ABATEMENT - FREE PRODUCT REMOVAL; REPAIR - UPGRADES; CLOSURE; AND FINANCIAL RESPONSIBILITY REQUIREMENTS.

CORRECTIVE ACTION REQUIRED:

① OBTAIN A VALID OPERATING PERMIT. AN OUTSTANDING BALANCE OF $ 1203.00 IS OVER-DUE AND THE 1992 FEES OF $ 1300.00 WILL BE DUE ON APRIL 30, 1992. SUBMIT FEES TO THE HMMD AT 1255 IMPERIAL AVE (3RD FLOOR) - SAN DIEGO 92101 BEFORE FEBRUARY 29, 1992.

② PREPARE AND SUBMIT AN UNDERGROUND TANK MONITORING PLAN, TAKING INTO CONSIDERATION TITLE 23 (CCR) AUGUST 8, 1991 AMMENDMENTS (i.e. HIGH GROUNDWATER ... etc) SUBMIT WITHIN 30 CALENDAR DAYS TO ATTN: CHRISTINA GRAULAU AT ADDRESS BELOW (*)

ISSUED TO: _____ TITLE Bankruptcy Trustee
ISSUED BY: Christina Graulau DATE 2/25/92 TIME 3:25
IDENTIFICATION (CA DRIVERS LICENSE OR DATE OF BIRTH) _____

☐ If this box is checked, provide written documentation of compliance with this notice to this office within 10 days. Section 66328 (d) of the CA Code of Code of Regulations requires, that at a minimum, this documentation must state:
1. The corrective action to be taken
2. The expected date of completion

(*) Department of Health Services; Hazardous Materials Management Division, PO Box 85261 San Diego CA, 92138-5261
(619) 338-2222

DHS:HM-912 (07/89)

COUNTY OF SAN DIEGO

EST. NUMBER H 19469
PAGE 2 OF 2
SPECIALIST: GRAULAU
PHONE

NOTICE OF VIOLATION

BUSINESS NAME EL CAPITAN OIL / BUY WRIGHT OIL / CORPORATE MGMT
BUSINESS ADDRESS 11427 WOODSIDE AVE City SANTEE ZIP 92071
~~OWNERS~~ TRUSTEE NAME RICHARD KIPPERMAN / AS BANKRUPTCY TRUSTEE FOR W.P. OIL & GAS PHONE 668-4501
~~OWNERS~~ ADDRESS 8085 LA MESA BL SUITE # 220 CITY LA MESA ZIP 91944

On the date below, an inspection of your business was conducted under the authority of section 25185 of the California Health and Safety Code. This inspection was conducted with the purpose of determining compliance with Chapters 6.5; 6.7; 6.95 of the California Health and Safety Code and/or applicable State or Local regulations. The following statements describe violations of law and are intended to provide guidance to correct the violations noted. You are currently in violation of law and may be subject to further legal action. Failure to correct these violations in a timely manner may be a factor in determining the course of further legal action. <CORRECTIVE ACTIONS CONTINUED>

(3) PREPARE AND SUBMIT A SITE ASSESSMENT AND MITIGATION PLAN THAT ADDRESSES THE UNRESOLVED UNAUTHORIZED RELEASE INVESTIGATION AND REMEDIATION ACTIVITY AT THE FACILITY. SUBMIT THIS PLAN TO THE ATTENTION OF DAVID FELIX AT ADDRESS BELOW.

(4) PREPARE AND SUBMIT WRITTEN DOCUMENTATION THAT ADDRESSES THE WELL LOCATED IN THE BUSINESS OFFICE FOR THE FOLLOWING POINTS:

(a) DECLARE USE (PRESENT AND FUTURE) OF WELL

(b) DEMONSTRATE WELL MEETS STANDARDS SPECIFIED IN DEPT OF WATER RESOURCES BULLETINS 74-81 AND 74-90.

SUBMIT THIS REPORT TO THE ATTENTION OF KEVIN HEATON AT ADDRESS LISTED BELOW

(5) SUBMIT EVIDENCE OF, OR PROGRESS IN OBTAINING FINANCIAL ASSURANCE COVERAGE. SUBMIT THIS TO THE ATTENTION OF CHRISTINA GRAULAU AT ADDRESS LISTED BELOW.

(6) PREPARE AND SUBMIT AN ACCEPTABLE BUSINESS PLAN TO THE ATTENTION OF CHRISTINA GRAULAU AT ADDRESS LISTED BELOW

FAILURE TO COMPLY WITH THESE REQUIREMENTS MAY RESULT IN REINSPECTION FEES AND FUTURE LEGAL ACTION

ISSUED TO: [signature] TITLE WM. WRIGHT BANKRUPTCY TRUSTEE
ISSUED BY: Christina Graulau DATE 02/26/92 TIME 3:25
IDENTIFICATION (CA DRIVERS LICENSE OR DATE OF BIRTH)

☐ If this box is checked, provide written documentation of compliance with this notice to this office within 10 days. Section 66328 (d) of the CA Code of Code of Regulations requires, that at a minimum, this documentation must state:
1. The corrective action to be taken
2. The expected date of completion

Department of Health Services; Hazardous Materials Management Division, PO Box 85261 San Diego CA, 92138-5261
(619) 338-2222

Telecon 7-26-91

Call Richard Tom - for SDHS (213) 346-2637

He is lawyer for SDHS involved with H-W. case for Wright Cos.

We discussed nature of Bill Wrights problems in S-D.

He wanted to learn about any objections to H.W. lawyer asking for payment. I said no.

I reminded him of Penn Terra case, he says does not hold water in new decisions.

I noted cleanup costs on our cases are probably less than property value, we will work on whoever takes over property to do cleanup.

M

COPY TO D. FELIX
H19469

ROSS M. PYLE (Cal. Bar #29318)
PETER L. DUNCAN (Cal. Bar #123308)
KELLI LYNN (Cal. Bar #144857)
JENNINGS, ENGSTRAND & HENRIKSON
A Professional Law Corporation
501 West Broadway, Suite 1400
San Diego, California 92101
(619) 557-7800

Proposed Attorneys for
Richard M. Kipperman, Chapter 11 Trustee

UNITED STATES BANKRUPTCY COURT

SOUTHERN DISTRICT OF CALIFORNIA

In re WILLIAM P. WRIGHT, Debtor.	Case No. 91-05169-H11 NOTICE OF MOTION BY TRUSTEE FOR AUTHORITY TO APPOINT GENERAL COUNSEL AND TO PAY GENERAL COUNSEL AND TRUSTEE AS AN ADMINISTRATIVE SUPERPRIORITY

LAW OFFICES
JENNINGS, ENGSTRAND & HENRIKSON
A PROFESSIONAL LAW CORPORATION
501 WEST BROADWAY, SUITE 1400
SAN DIEGO, CALIFORNIA 92101
(619) 557-7800

TO THE DEBTOR, ALL CREDITORS AND OTHER PARTIES IN INTEREST:

YOU ARE HEREBY NOTIFIED that Richard M. Kipperman, the Chapter 11 Trustee herein, has filed his Motion For Authority to Appoint General Counsel and to Pay General Counsel and Trustee as an Administrative Superpriority which seeks employment of Jennings, Engstrand & Henrikson, A Professional Law Corporation ("JEH"), as the Trustee's counsel and authorizes payment of fee awards to Trustee's counsel and the Trustee on an administrative superpriority basis, pursuant to section 364(c) of the Bankruptcy Code. The motion further requests the Court's authority to pay certain costs from the Debtor's estate and authority to reimburse JEH monthly for its out-of-pocket expenses. The Court's approval of all cost reimbursements and fees will be sought pursuant to

subsequent fee applications. A copy of the Motion, the Memorandum of Points and Authorities in Support Thereof and the Declaration of Ross M. Pyle are on file with the Court.

1. Hearing on the Applicant's Motion for Authority to Appoint General Counsel and to Pay General Counsel and Trustee as an Administrative Superpriority shall be held on August 1, 1991, at 10:30 a.m., in Department 3 of the United States Bankruptcy Court for the Southern District of California at 940 Front Street, Fifth Floor, San Diego, California.

2. Opposition to the Motion for Authority to Appoint General Counsel and to Pay General Counsel and Trustee as an Administrative Superpriority shall be filed with the Clerk of the United States Bankruptcy Court for the Southern District of California located at 940 Front Street, Room 5-N-26, San Diego, California 92189-0020, by July 29, 1991.

3. Reply to any opposition shall be filed with the Clerk of the United States Bankruptcy Court for the Southern District of California located at 940 Front Street, Room 5-N-26, San Diego, California 92189-0020, by 12:00 p.m. on July 31, 1991.

Dated: July 19, 1991

JENNINGS, ENGSTRAND & HENRIKSON,
A Professional Law Corporation

By: Peter L. Duncan
Peter L. Duncan
Proposed Attorneys for
Chapter 11 Trustee

[A:CMWRIGHT.NOI]
July 19, 1991

LAW OFFICES
JENNINGS, ENGSTRAND & HENRIKSON
A PROFESSIONAL LAW CORPORATION
501 WEST BROADWAY, SUITE 1400
SAN DIEGO, CALIFORNIA 92101
(619) 557-7800

CERTIFICATE OF SERVICE

I, the undersigned whose address appears below, certify:

That I am, and at all times hereinafter mentioned was, more than eighteen (18) years of age;

That on the 19th day of July, 1991, I served a true and correct copy of the following pleading(s): NOTICE OF MOTION BY TRUSTEE FOR AUTHORITY TO APPOINT GENERAL COUNSEL AND TO PAY GENERAL COUNSEL AND TRUSTEE AS AN ADMINISTRATIVE SUPERPRIORITY by first class mail, postage prepaid on: SEE ATTACHED SERVICE LIST.

I declare under penalty of perjury that the foregoing is true and correct. Executed this 19th day of July, 1991, at San Diego, California.

Kathy Esteban
501 West Broadway, Suite 1400
San Diego, CA 92101

[203\LKC\FORM.CS]

cc: David Felix Cpeda

JENNINGS, ENGSTRAND & HENRIKSON
A PROFESSIONAL LAW CORPORATION
501 WEST BROADWAY
SUITE 1400
SAN DIEGO, CALIFORNIA 92101-3541

TELEPHONE
(619) 557-7800
FAX: (619) 557-7760

WRITER'S DIRECT LINE:
(619) 557-7627

W. H. JENNINGS
1899-1983

LEO R. B. HENRIKSON
OF COUNSEL

HON. JAMES L. FOCHT
OF COUNSEL

RICHARD G. OPPER

RECEIVED
JUL 22 12 43 PM '91
HEALTH SERVICES

July 19, 1991

Department of Health Services
Hazardous Materials Management Division
Attention: Mr. Paul Crecelius
Post Office Box 85261
San Diego, CA 92138-5261

Re: Notice of Violation Est. No. H 19469
Buy Wright Oil

Dear Mr. Crecelius:

Thank you for taking the time to share some thoughts with me about the notification your office issued earlier this year. Please be advised that Mr. Richard M. Kipperman has assumed the responsibilities of the trustee as of June 21, 1991. He is representing the estate of Mr. William Wright, currently a Chapter 11 debtor.

Mr. Kipperman has asked me to advise you that there are, at present, no active business operations going on at 11427 Woodside Avenue, in Santee. He does not believe there is any sale of petroleum or other related products at the site currently. Further, individuals who may hold card keys that previously granted them access to this site no longer do have access as the security system codes have been altered.

El Capitan Associates (Rodney D. Means, general partner), and Mr. Floyd J. Wiggington are secured creditors of the property. They have filed motions for relief from stay before the bankruptcy court. If granted, their motions would allow them to foreclose on their security interests in the property. We do not currently know their anticipated future plans for the property. If the motions for relief from stay are granted, then these two secured creditors will get clear record title to the property before it will pass to others, if that is their plan.

I hope this information is of some assistance to you. If I can help in any way in resolving the outstanding issues with regard to the underground storage tank systems on the site, please do not hesitate to call.

Sincerely,

JENNINGS, ENGSTRAND & HENRIKSON
A Professional Law Corporation

Richard G. Opper

RGO:EJ
cc Mr. Richard M. Kipperman
{A3:\crecelius}

Telcon 3/13/91

Re: Bay Wright

Call from Seth Levey

Lawyer for insurance co of Wright Petroleum.
He asked about status - referred to my 3/2/90 ltr.
I noted Ditty letter and bankruptcy -

also informed him of Notice to abandon and hearing on 3/21.

gave him phone # of Tom Grimmett atty.

Discussed our philosophy on site -

Noted complexity of Wright companies + other violations at other Wright sites

From Assessor info 3/8/91

11427 Madrid Ave APN 382 320 0600

Owned by William Wright

Mail - ~~3007~~ Regency Hill
Henderson, NV 89014

Purchased 12/21/89

3/7/91 Telecon - Calif Jaqui Sikorzak 916 739-4259
Re: Burg Wright Bill
Lyn Wynkell re Board Legal Counsel
for State Water Board
(916) 739-4320

Craig Wilson 916 322-0200

I called Winchell - had #
Call ~~Williams~~ - Wilson - no answer

Telcon 3/7/91

Call from York Himerdinger (Wright Oil)

Reports that he was wholesale manager for Fiesta Oil, a business name for Wright Oil of Nevada. Operated Woodside Ave terminal. All employees just terminated - no warning. He is going to document his involvement before vacating office.

He says facility suffered a kerosine release recently. Has not been reported yet but he will note it in long letter he is sending to my attention.

I told him about motion to abandon which we received from State Water Board. He was agitated because trustee gave no warning to employees.

df

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
DIVISION OF CLEAN WATER PROGRAMS
2014 T STREET, SUITE 130
P.O. BOX 944212
SACRAMENTO, CA 94244-2120
FAX (916) 739-2300

GEORGE DEUKMEJIAN, Governor

TRANSMITTAL OF FAX MATERIAL

DATE: 2.28.91

TO: KEN CALVERT
CO OF SAN DIEGO
HAZ MAT MGMT DIV
FAX #(619)338-2377

FROM: DIVISION OF CLEAN WATER PROGRAMS
JAQUI SIKORYAK (916) 739-4259
UNDERGROUND STORAGE TANKS

NO. OF PAGES 4 (including this sheet)

[X] For Your Information
[ ] Per Your Request
[ ] For review & comments

REMARKS: NEED TO KEEP YOU INFORMED OF CHAT 7 SITUATION

K. Calvert passed to D. Felix 3/1/91
I told KC about Penn Terra decision in 3rd Appeals Court.

H. STAN JOHNSON, ESQ.
COHEN, LEE, JOHNSON & MERIALDO
301 E. Clark Ave., #870
Las Vega, NV 89101
(702) 382-2111
Attorney for TOM R. GRIMMETT, TRUSTEE

RECEIVED
FEB 1 2 25 PM '91
COURT
PATRICIA GRAY
CLERK

UNITED STATES BANKRUPTCY COURT

DISTRICT OF NEVADA

In re:

WRIGHT COMPANIES,

BK-S- 89-3914-LBR
MOTION NO.
DATE: 3-21-91
TIME: 2:00pm

NOTICE OF MOTION TO ABANDON PROPERTY

NOTICE IS HEREBY GIVEN that MOTION TO ABANDON PROPERTY was filed herein on February 15, 1991, by H. Stan Johnson, Esq., attorney for TOM R. GRIMMETT.

Any opposing memorandum must be served and filed with 15 days after service of this Notice and Motion) Local Rule 140-4) but not less than 5 days before the hearing date, (Local Rule 965(a)). If no opposition is filed, the Court may grant the relief requested in the Motion. A copy of the Motion may be obtained by phoning or requesting it in writing from counsel for the Trustee.

NOTICE IS FURTHER GIVEN the hearing on said MOTION will be held before a U.S. Bankruptcy Judge, in the Federal Building, 300 Las Vegas Blvd. So., Bankruptcy Courtroom#2Las Vegas, Nevada, on the 21 day of March, 1991, at the hour of 2:00 pm.

DATED this 15 day of Feb., 1991.

PATRICIA GRAY-EDWARDS, CLERK

By Bankruptcy Deputy Clerk

H. STAN JOHNSON, ESQ.
COHEN, LEE, JOHNSON & MERIALDO
301 E. Clark Ave., #870
Las Vegas, NV 89101
(702) 382-2111
Attorney for RAY FARRER, TRUSTEE

RECEIVED
AND FILED
FEB 15 1 26 PM '91
U.S. BANKRUPTCY COURT
PATRICIA GRAY
CLERK

UNITED STATES BANKRUPTCY COURT

DISTRICT OF NEVADA

In re:

WRIGHT TERMINALS,

BK-S- 89-3913-LBR
MOTION NO.
DATE: 3-21-91
TIME: 2:00 pm

NOTICE OF MOTION TO ABANDON PROPERTY

NOTICE IS HEREBY GIVEN that MOTION TO ABANDON PROPERTY was filed herein on February 15, 1991, by H. Stan Johnson, Esq., attorney for RAY FARRER, TRUSTEE.

Any opposing memorandum must be served and filed with 15 days after service of this Notice and Motion) Local Rule 140-4) but not less than 5 days before the hearing date, (Local Rule 965(a)). If no opposition is filed, the Court may grant the relief requested in the Motion. A copy of the Motion may be obtained by phoning or requesting it in writing from counsel for the Trustee.

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DATED this 15 day of Feb, 1991.

PATRICIA GRAY-EDWARDS, CLERK

By JOANNE LLOYD
Bankruptcy Deputy Clerk

COHEN, LEE, JOHNSON & MERIALDO
301 E. Clark Ave., #87[redacted]
Las Vega, NV 89101
(702) 382-2111
Attorney for TOM R. GRIMMETT, TRUSTEE

RECEIVED
[illegible] 1 25 PM '91

H19469

UNITED STATES BANKRUPTCY COURT

DISTRICT OF NEVADA

COURT
PATRICIA GRAY
CLERK

In re:	BK-S- 89-3914-LBR
	MOTION NO.
WRIGHT COMPANIES,	DATE: 3-21-91
	TIME: 2:00pm
	NOTICE OF MOTION TO ABANDON PROPERTY

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DATED this 15 day of Feb, 1991.

PATRICIA GRAY-EDWARDS, CLERK

By [signature]
Bankruptcy Deputy Clerk

Felix

County of San Diego

J. WILLIAM COX, M.D., Ph.D
DIRECTOR
STEVEN A. ESCOBOZA
ASSISTANT DIRECTOR

DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

OFFICE OF THE DEPUTY DIRECTOR
P.O. BOX 85261
SAN DIEGO, CA 92138-5261
(619) 338-2211
Fax #: 338-2174

HAZARDOUS MATERIALS MANAGEMENT DIVISION
P.O. BOX 85261
SAN DIEGO, CA 92138-5261
(619) 338-2222

December 19, 1990

Mr. York Himerdinger
Wright Companies
11427 Woodside Avenue
Santee, CA 92071

Dear Mr. Himerdinger:

19469

RE: UNAUTHORIZED RELEASE #T0948/H19426-001
11427 WOODSIDE AVENUE, SANTEE, CA 92071

A review of the Hazardous Materials Management Division's (HMMD) files indicates that the unauthorized release issue associated with an underground storage tank at this site has not been resolved. The last activity on this site appears to be greater than three (3) months ago.

The California Code of Regulations, Title 23, Chapter 3, Subchapter 16, Section 2652 (d) states that until cleanup is complete, reports shall be submitted to the local agency and the Regional Water Quality Control Board (RWQCB) every three months or at a more frequent interval if specified.

Within thirty (30) days of receipt of this letter, submit a written update report to the HMMD and the RWQCB summarizing the site activities and the proposal for any further work. Submit the updates at the frequency previously specified by the HMMD, not to exceed the minimum of every three months (October 15th, January 15th, April 15th, July 15th). Updates must be submitted until which time the unauthorized release is resolved.

Please be reminded that the State Water Resources Control Board (SWRCB) will bill the responsible party for all local agency time expended on the unauthorized release investigation. Site assessments and remediation activities completed in a comprehensive and timely manner may minimize the amounts billed by the SWRCB.

Please contact Dave Felix, Hazardous Materials Specialist, at (619) 338-2258, if you have questions regarding this matter.

Sincerely,

Vickie Church

VICKIE CHURCH, Hazardous Materials Specialist
Hazardous Materials Management Division

VC:cmc

cc: James Munch, RWQCB
Tom Grimmett, Trustee

WP\T0948

BUYWRIGHTOIL

MARVIN PAEPER
Manager

Gasoline • Lubricants
Diesel • Kerosene • Solvents
California Gold Fuel



11427 Woodside Ave.
Santee, Ca 92071
(619) 448-5891



PHONE MEMO

TO Files

DATE 10/9/90 TIME 9:30 AM PM

FROM York Himerdinger

AREA CODE (619) NO. 562-3152

OF Associated with U.S. Bankruptcy Court EXT.

MESSAGE report & discuss a Contaminated property site. Please call this afternoon after 2:00 —

SIGNED YH

PHONED ☒ CALL BACK ☐ RETURNED CALL ☐ WANTS TO SEE YOU ☐ WILL CALL AGAIN ☐ WAS IN ☐ URGENT ☐

Himerdinger
to Ce (Las Vegas)

Re: Burg Wright on Woodside Ave Santee.

Eastern boundry -

mauser is owner on eastern side of Burg Wright. Has found contamination. York is reporting it.

[Send ~~to~~ Communication to Y.H. at
11427 92071]

I noted that we were already aware and had asked W. Wright via 2 letters to place well on southeast side of property.

I noted other Wright / Express gas sites. I will send Y.H. a list today

I noted that we did not plan to push for cleanup as long as tank farm was in business but they would have to monitor and make sure that any contamination was confined to site

I told him about file review process.

Conversation with Dennis Tranzuray - 8/30

Bankruptcy Trustee for Wright Companies
Tom Grimmett - Woodside Ave.
Asst Trustee Lynn Anderson

Bathin Las Vegas

Telecon 5-2-90

Call Diana Staves PA. Dept of Environmental Resources (415) 645-7440

She is on maternity leave until Oct and is the only person who would be familiar with entirety of Penn Terra case.

dlf

Telecon 4/6/90 #19469

Call from Dennis Fransway
Re: Billy Wright aid

He says A. Ditty should have mailed letter in response to my last request. I said I had nothing. He will check with Ditty.

df

Law Offices of
ANTHONY T. DITTY
3131 Camino Del Rio North
Suite 900
San Diego, California 92108

Tel. (619) 281-3366
Fax: (619) 563-0756

"HMMU"

APR 9 3 11 PM '90

April 5, 1990

Mr. David Felix
ENVIRONMENTAL HEALTH SERVICES
Hazardous Materials Management Division
P.O. Box 85261
San Diego, California 92138-5261

Re: Unauthorized Release #TO948/HI9469-001
11427 Woodside Avenue, Santee, CA 92071
Our File No. 123071

Dear Mr. Felix:

On March 2, 1990, you forwarded to my offices as well as to my client's office a letter concerning the above-referenced property. I would like to respond to that letter and provide you with an update as to the company's position with regard to this site.

As you may or may not be aware, Wright Companies, the operator of the site, filed for bankruptcy in the Las Vegas Federal Court on December 18, 1989. While I will not go into the details surrounding that bankruptcy filing, it should suffice to say that the filing of the bankruptcy as well as the circumstances leading to the filing has distracted management's attention from this site and toward the effective reorganization of the business. The bankruptcy is a Chapter 11 filing and a reorganization is the company's objective. We are advised any enforcement action by the Department is stayed by the bankruptcy filing. This nowithstanding, we intend to proceed with the clean up efforts and to work with you as recources permit.

Because of the bankruptcy filing, there is a shortage of funds for expenses incurred in other than the ordinary course of business. Because of the particular problems associated with the bankruptcy, hiring of consultants, and approval of non-standard administrative expenses has taken considerable time. The company intends to exert its best efforts to meet any obligations imposed by the Department of Health Services, however, the procedural morass, and need for obtaining court approval on some matters has taken some time.

The company has a proposal from a local environmental consultant for the installation of additional wells, abandonment of the

interior well, monitoring of the wells constructed in 1988, and sampling of soils and ground water for determining the appropriate remediation method. I am in the process of attempting to obtain approval for the expenditure of funds necessary to accomplish these tasks. Once approval is obtained I will be contacting our consultant and give them the go ahead to commence work.

The site, as you know, was purchased from a third party, James Wiggington. At the time of the purchase there were some problems with the property which were not disclosed. You may or may not be aware that the issues relating to the contamination problem are currently in litigation. This is also contributing to the problems of structuring and implementation of a remediation plan.

To provide you with some time table within which you can expect further action, I am optimistic the company will have approved and obtained approval from the bankruptcy court of a "next phase" remediation plan which would include further testing of soils and water as well as the installation of some additional wells by June 15, 1990. This is based on an assumption that the approval of the bankruptcy court, to the extent needed, may be obtained on a 30-day cycle with a two week review time and two to three weeks of intervaning administration time. While I appreciate this is beyond the April 30, deadline that you had previously set, I believe it represents the company's best efforts at moving this matter forward from this point.

Let me finally express my apology for the delay in getting back to you on your March 2, 1990, letter. Unfortunately, due to the bankruptcy filing, it was necessary for local bankruptcy counsel of Nevada to petition the court to approve my representing the company with regard to any of the pending matters. Because of the delay in that approval process, several matters were left unattended; this matter was but one of them. Hopefully, delays associated with the bankruptcy and the related litigation on this matter will be minimal from this point forward. I assume that if you have any questions you will be contacting my office directly. I encourage you to call if you should have any questions.

Sincerely,

Anthony T. Ditty
ATD:cb
ltr\felix.1
cc: Mr. Bob Dearinger
Eneco Tech

County of San Diego

J. WILLIAM COX, M.D., Ph.D.
DIRECTOR
(619) 236-2237

STEVEN A. ESCOBOZA
ASSISTANT DIRECTOR
(619) 236-7633

DEPARTMENT OF HEALTH SERVICES

1700 PACIFIC HIGHWAY, SAN DIEGO, CALIFORNIA 92101-2417

ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS MANAGEMENT DIVISION
P. O. BOX 85261
SAN DIEGO, CA 92138-5261
(619) 338-2222

March 2, 1990

Mr. William Wright
Wright Oil Company
8685 N. Magnolia Avenue
Santee, CA 92071

Dear Mr. Wright:

RE: UNAUTHORIZED RELEASE #T0948/H19469-001
11427 WOODSIDE AVENUE, SANTEE, CA 92071

Wright Oil Company has failed to provide written reports to this office on progress of the Unauthorized Release investigation and remediation activity at the above referenced site. The request for these reports was made in an Official Notice from this office dated June 13, 1988. The last report in our files is dated August 3, 1988. Failure to provide these reports places Wright Oil in violation of section 2652(d) Title 22, of the California Code of Regulations.

The last information on site investigation and clean-up at the above referenced site was provided by Dennis Fransway in a meeting with me on December 15, 1988. At that time, Mr. Fransway indicated that plans for clean-up of fuel-contaminated ground water were being considered. During that meeting, Mr. Fransway was informed of the need for an additional monitoring well on the southeast property line. The need for this additional well had previously been made to Wright Oil Company by means of a letter to Mr. Fransway dated November 18, 1988.

By April 1, 1990 submit to this office and the Regional Water Quality Control Board (RWQCB) a written update on any work which has occurred since August, 1988. Update reports are to be submitted to this office and the RWQCB on the first of each month until further notice.

If the additional monitoring well has not been installed, make arrangements for the work to be completed by April 30, 1990.

When the additional well is installed, ground water from all monitoring wells must be sampled. The samples are to be analyzed for Total Petroleum Hydrocarbons by DOHS-TPH Method, for Organic Lead by EPA Method 7421, and for aromatic organic compounds by EPA Method 602. Provide this office and the RWQCB with the sample results. The agencies will then make a decision on the need for any future investigation/clean-up of the soil and ground water contamination.

If you have any questions on these requests, please call me at (619) 338-2258.

Sincerely,

David Felix

DAVID FELIX, Hazardous Materials Specialist
Hazardous Materials Management Division

DF:ydt

cc: Jim Munch - RWQCB
Anthony Ditty
Enecotech

WP/T0948

1/29/90 Discuss with Mark Burg Wright

Highest water sample 19 ug/l in middle of site

Free product in well (non permitted) in building. ~~Baildt~~ Bailed out

I suggest
Needs one well near B3 on down gradient side of property at south property boundry.

Needs up gradient well near Oil drum storage
Sample all wells
~~Monitor all wells 2 times/year~~

If no off property migration -
~~monitor~~ sample all wells twice a year for indefinate period.

If offsite migration has occured
find extent, do G.W. cleanup

If offsite occurs in future -
begin cleanup

County of San Diego

J. WILLIAM COX, M.D., Ph.D
DIRECTOR
(619) 236-2237

DEPARTMENT OF HEALTH SERVICES

1700 PACIFIC HIGHWAY, SAN DIEGO, CALIFORNIA 92101-2417

ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS MANAGEMENT DIVISION
P.O. BOX 85261
SAN DIEGO, CA 92138-5261
(619) 236-2222

January 10, 1989

Mr. Bob Allen
County of San Diego
Department of Public Works
5555 Overland Avenue, Bldg. #2
San Diego, CA 92123

Dear Mr. Allen:

SUBJECT: FUEL CONTAMINATED SOIL AT 11427 WOODSIDE AVENUE, SANTEE
#T0948/H19469-001

Dennis Fransway, environmental coordinator for Wright Companies, the generator, has requested to dispose of contaminated soil at a County Landfill. Both the County Department of Health Services, Hazardous Materials Management Division (HMMD) and the San Diego Regional Water Quality Control Board (RWQCB) have reviewed the proposal and accompanying data.

Based on all the information submitted, the approximately 100 cubic yards of soil does not contain concentrations greater than 0.5 mg/kg Total Petroleum Hydrocarbons (TPH). Both the HMMD and the RWQCB consider this waste to be suitable for disposal at a San Diego County landfill.

The generator is required to submit a receipt acknowledging the final disposition of this soil.

County of San Diego
Dept. of Health Services
Hazardous Materials Management Division

Regional Water Quality Control Board

:jj

cc: D. Fransway
RWQCB
HMMD, D. Felix

QUALITY ASSURANCE LABORATORY

BUY WRIGHT OIL
ATTN: DENNIS FRANSWAY
8685 N. MAGNOLIA
SANTEE, CA 92071

DATE OF REPORT	SEPTEMBER 1, 1988
DATE RECEIVED	AUGUST 23, 1988
DATE OF SAMPLE	AUGUST 18, 1988
DATE COMPLETED	AUGUST 31, 1988
ANALYZED BY	EM SP
SAMPLE TYPE	3 SOIL

ANALYSES RESULTS

		LOG NUMBER:	8608-88	8609-88	8610-88
		SAMPLE ID:	BUY WRIGHT #1	BUY WRIGHT #2	BUY WRIGHT #3
ANALYSIS	METHOD	UNITS:	MG/KG	MG/KG	MG/KG
TPH	DHS EXTRACTION*		<0.5	<0.5	<0.5/<0.5 **
BENZENE	EPA 8020			<0.5	
TOLUENE	EPA 8020			<0.5	
XYLENES	EPA 8020			<0.5	

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

** DUPLICATE ANALYSIS

Initial Samples taken from trench walls - may 25

Dana Walker
DANA WALKER
LABORATORY DIRECTOR

Mailing Address:
P.O. Box 22567
San Diego, CA 92122

San Diego
6555 Nancy Ridge Dr., Suite 300
San Diego, CA 92121
(619) 566-1060
Fax: (619) 458-9093

Arizona
(602) 468-0691
Orange County
(714) 261-7242

CHECK APPROPRIATE [redacted]K:

[redacted]TE EXPRESS GAS
S NAT L. GRNG

Felix COPY

H03087

☐ MINUTES OF MEETING

☒ TELEPHONE CONVERSATION

DATE 12-28-88 TIME 2:30PM LOCATION HQ

ATTENDEES/AGENCIES REPRESENTED* _____

PHONE NO. ( ) 449-5140

☒ PERSON CALLING/CALLED Ken Sharp
Dennis Fransway

☐ AGENCY REPRESENTED _____

CONVERSATION*/MINUTES Ken Sharp stated a 2' section of the diesel vent line was replaced by their maintenance dept. because the vent line was broken when the tank was being uncovered for precision testing. Ken Sharp stated no permit was obtained to repair the vent line. Dennis Fransway stated that the diesel tank failed a precision test about 1½ months ago - leak rate 0.1 gph per Dennis. He also stated the tank was retested and passed the precision test done by another tank tester (Par Am). Ken Sharp stated the spoils pile from the excavation was self hauled to 11427 Woodside Ave, Santee (Bury Wright). Dennis Fransway stated that the →

NAME _____ SIGNED John Misleh

AGENCY - S.D. COUNTY DEPARTMENT OF HEALTH SERVICES; DIVISION OF ENVIRONMENTAL HEALTH

* A sign-in sheet should be passed around at the beginning of the meeting,

→ spoils pile could have been taken to the dump or to the 11427 Woodside Ave, Santee location. Ken Sharp stated the diesel tank is in use at this time. I told Dennis Fransway to send me the precision test results and a letter explaining the events that occurred - i.e. - precision tests; self-hauling spoils pile and Vent line repair

NOTES Ken Sharpe

→ 2' section repaired vent line when uncovering tank by maintenance

Dennis stated Fransway failed 0.1 gph → Lube Eq. or Maintenance (high level) precision test month ½ ago (Nov.)

→ soil taken to
→ stock pile of contaminated soil
TOO948 at 11427 Woodside Ave.
(2 yds) Santee

WRIGHT COMPANIES

P.O. BOX 2668 • EL CAJON, CALIFORNIA 92021 • (619) 562-3152

"HMMU"

Dec 22 4 31 PM '88

December 20, 1988

San Diego County Health Department
HMMD
P.O. Box 85261
San Diego, California 92138-5261

ATTN: David Felix

RE: Buy Wright Oil Company, 11427 Woodside Ave., Santee

Dear Mr. Felix:

During underground tank removal procedures at the 11427 Woodside Avenue property, Buy Wright Oil Company stockpiled approximately 100 yards of potentially contaminated soils. Three separate soil samples were collected from the stockpile on August 18, 1988 and analyzed for TPH and one sample for BTX content. I forwarded the resulting data to your attention in September 1988. As you know, all results were below detectable levels.

In our meeting of December 15, I indicated that Buy Wright Oil Company would like to remove these materials to a County landfill. In your subsequent personal inspection on December 19, you indicated that this may be feasible.

We would be pleased if you would consider this request and provide Buy Wright Oil Company with any assistance possible.

As I indicated, there is approximately 100 yards of material which consists of sandy textured soil mixed with small amounts of broken up concrete.

Thank you for your attention and time in helping us with this situation. We look forward to hearing from you.

Sincerely,

WRIGHT COMPANIES

Dennis F. Fransway

Dennis F. Fransway
Environment and Safety Coordinator

DFF/saf

Meeting 12/15/88 10 AM

D. Felix, K. Heaton, D. Franseway, Ken? of Wright Patrol.

Franseway has bailed 12" FP from well in building
Found no FP 1 month later. Piping and possible
pump in well.

Discussion on additional well on SE side of property.
Heaton confirms location near B2
Additional well near building is needed to replace old
well in Building which should be abandoned.

Suggest leaving wells in place for future monitoring
Franseway says more work to figure capture zones
will be done. Get k values

K.H. reviewed options for water disposal
Sewer - 1 year
NPDES - g.w. may not meet surface discharge regs.
Infiltration - use gallery or leach field

DF said he would visit site next week to
view spoil disposal piles for sampling

Telcom - return call to 12/8/88

D. Franceway - 10:30

Re:

Woodside Drive - general proposal expected
Wants meeting with mgt + K.H.

Express #1 - wants to discuss

Hess roofing - I said I would find spec. charge
T 1080 - H 04147-001
Says he is helping a Wright customer - as advisor

10 am Thurs - Reserve mtg room
Need K.H.

County of San Diego

J. WILLIAM COX, M.D., Ph.D
DIRECTOR
(619) 236-2237

DEPARTMENT OF HEALTH SERVICES

1700 PACIFIC HIGHWAY, SAN DIEGO, CALIFORNIA 92101-2417

ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS MANAGEMENT DIVISION
P.O. BOX 85261
SAN DIEGO, CA 92138-5261
(619) 236-2222

November 18, 1988

Dennis Fransway
Buy Wright Oil
8685 N. Magnolia Ave.
Santee, CA 92071

Dear Mr. Fransway:

RE: UNAUTHORIZED RELEASE #T0948/H19469
11427 WOODSIDE AVE, SANTEE, CA 92071

The Enecotech report of August 3, 1988 has been reviewed.

In general, this office agrees with the recommendations presented in the report. Remediation of ground water and soil are required at this site to protect the beneficial uses of ground water in the area. We question the interpretation of the extent of ground water contamination. An additional well is needed in the vicinity of boring B-03 to confirm the limits of the ground water plume.

The Regional Water Quality Control Board has established the following maximum contaminant levels for this site.

100 mg/kg	Total Fuel Hydrocarbons in soil	(by DHS-TPH Method)
0.7 ug/1	Benzene in ground water	(by EPA Method 602)
100 ug/1	Toluene in ground water	(by EPA Method 602)
620 ug/1	Xylene in ground water	(by EPA Method 602
680 ug/1	Ethylbenzene in ground water	(by EPA Method 602)
50 ug/1	Total Lead in ground water	(by EPA Method 7421)

Other contaminants in ground water may not exceed the State Action Levels for drinking water; the same contaminants in soil may not exceed 100 times the State Action Levels.

Spoil piles on site must be sampled according to the guidelines of this department (copy attached). After the spoil piles are correctly sampled, this office can provide guidance on proper disposal sites and treatment alternatives.

Fransway, Dennis November 18, 1988

The old well located in the "TBA" storage building is of particular concern. Telephone conversations with you indicate this well contained some free product. I would like some explanation of how the product in this old well relates to the Enecotech conclusions concerning the remainder of the site.

If you wish to utilize the old well as a monitoring well, this office must have construction details to be sure that it will yield valid data. If the well cannot be used, it must be destroyed per county ordinance.

Please contact Kevin Heaton of this office for details on well regulations.

By December 15, 1988, please provide a schedule and specific plans for the next phase of work at the site. Call me at 236-2222 if you wish to discuss these matters.

Sincerely,

David Felix

DAVID FELIX, Hazardous Materials Specialist
Hazardous Materials Management Division

DF:lja

cc: Enecotech
Anthony Ditty
RWQCB
K. Heaton

9/21/88

Telecon
Dennis Fromsway

I suggested 2 composites from University Ave site.
Has other samples from Woodside spoil pile.
Will send results.

Has bailed well in building at Woodside
Product; will sample it on weekend.
Has samples

What is other Express site connected with Sanesco.

On University Ave site - I said additional samples
may show that soil can go to local landfill.

DWF

Telcom 8/12/88

Dennis Tramway

Re: disposal of soil from tanks removal

Report of 8/3/88

T-20	Samples 5'50	Leaving Gas
T 23	880	?
T 11	1000	Gas
T 19	5'00	Diesel

Soil from 19 and T-20 less than 5 yds^3 each

Piles have been moved.

Tramway will get composite samples from each

Do 8015, BTX

I said have lab do gasoline chain length

DWF

Site Visit 2/20/88 2:00

Burg Wright Petroleum

Talked to Marvin Paeper - Mgr.

Looked at location of removed tanks and wells locations

He thinks wells ~ 30 ft deep unknowingly they go to G.W. - all have locked caps

DWF

Felix

County of San Diego

J. WILLIAM COX, M.D., Ph.D
DIRECTOR
(619) 236-2237

DEPARTMENT OF HEALTH SERVICES

1700 PACIFIC HIGHWAY, SAN DIEGO, CALIFORNIA 92101-2417

ENVIRONMENTAL HEALTH SERVICE
HAZARDOUS MATERIALS MANAGEMENT DIVISION
P.O. BOX 85261
SAN DIEGO, CA 92138-5261
(619) 236-2222

OFFICIAL NOTICE

June 13, 1988

William Wright
Wright Oil Co.
8685 N. Magnolia Ave.
Santee, CA 92071

RE: UNAUTHORIZED RELEASE #T0948/H19469
11427 WOODSIDE AVENUE, SANTEE

Dear Mr. Wright:

The initial Unauthorized Release Report submitted by Dennis Fransway dated April 18, 1988, for the site referenced above conforms to the reporting requirements, as prescribed in the California Health and Safety Code, Chapter 6.7 and the California Administrative Code, Title 23, Chapter 3, Subchapter 16, Article 5, Section 2652.

For the duration of the site mitigation process, you are required to provide periodic written supplemental reports to this Department to update the Unauthorized Release Report pursuant to the California Administrative Code, Title 23, Chapter 3, Subchapter 16, Article 5, Section 2652.

Please submit a written supplemental report to update the Unauthorized Release Report every month. The report should include a summary of the investigation and mitigation progress accomplished to date, along with the projected accomplishments for the next reporting period. The update report is due by July 1, 1988.

If during the site mitigation process any significant situation is encountered that was not known nor anticipated at the time of the initial Unauthorized Release Report, please provide a written statement describing the situation in order to amend the Unauthorized Release Report.

As a reminder, a copy of each manifest for hauling any hazardous waste generated as a result of the site characterization and mitigation procedure must be included with the written supplement reports.

If you have any questions on this matter please contact me at (619) 236-2222.

Sincerely,

David Felix

DAVID FELIX, Hazardous Materials Specialist
Hazardous Materials Management Division

DF:tjl

cc: RWQCB
Anthony Ditty

Law Offices of
ANTHONY T. DITTY
3430 Camino Del Rio North
Suite 300
San Diego, California 92108

(619) 281-3366

AUG 31 3 33 PM '88

May 20, 1988

Mr. David Felix
County Health Department
Hazardous Waste Division
P.O. Box 85261
San Diego, CA 92138-5261

RE: 11427 WOODSIDE AVENUE, SANTEE

Dear Mr. Felix:

Pursuant to your telephone conversation with my office of May 19, 1988, this letter is intended to serve as notice to you that the undersigned, as the legal owners of the above-referenced property, desire to have all notices sent to the following individuals:

Dennis Fransway P.O. Box 20677 El Cajon, CA 92021	Anthony T. Ditty, Esq. 3430 Camino Del Rio N.,#300 San Diego, CA 92108

Until you are notified otherwise, these individuals are to act as our liason with the San Diego County Health Department with respect to the underground soil contamination problems located at the referenced property.

Sincerely,

Anthony T. Ditty, Esq.

ATD:lmk

Dated: 8-29-88

WILLIAM P. WRIGHT

Dated : 8-29-88

BARBARA D. WRIGHT

felix.ltr

RECEIVED
AUG 2 9 1978





PHONE MEMO

TO HEATON

DATE 5-31

TIME 8:40 AM PM

FROM DICK THURLOW

OF EL CAJON

AREA CODE

NO. 441-4615

EXT.

MESSAGE

Woodside Inc Wright Oil

several tanks had problems

Piping leaks

Have removed 6 tanks in excavation

SIGNED

PHONED ☐ CALL BACK ☑ RETURNED CALL ☐ WANTS TO SEE YOU ☐ WILL CALL AGAIN ☐ WAS IN ☐ URGENT ☐

Telcon - from D. Fraseway Re Woodside Ave
By Rich Petroleum 5/18 4:10

Has 5 monitoring wells in place, 8 borings
Will start removing tanks next week
Rick Raft has been in communication with Heaton re wells

He asked about filling tank excavations, I said OK but might have to dig out again.
I suggested use eyes, nose, OVA to excavate contaminated soil, segregate load from questionable, take verification samples (1 per 200 ft² plan area, one over on side wall below piping). Take samples from spoil piles. Submit data to HmmD.

DWF

☐ MINUTES OF MEETING

☑ TELEPHONE CONVERSATION

DATE 4/18/88 TIME 0913 LOCATION _____

ATTENDEES/AGENCIES REPRESENTED* _____

PHONE NO. ( ) 449-5140

☑ PERSON CALLING/CALLED Dennis Fransaway

☐ AGENCY REPRESENTED Express Gas

CONVERSATION*/MINUTES

T949/H20497 March 22, 1988 Receive

21427 Woodside Ave

Lakeside, CA

Eneco Tech has been hired for site assessment activity. They will respond the Official Notice and send a site assessment plan.

NAME _____ SIGNED Darryl J Fowler

AGENCY - S.D. COUNTY DEPARTMENT OF HEALTH SERVICES; DIVISION OF ENVIRONMENTAL HEALTH

* A sign-in sheet should be passed around at the beginning of the meeting, allowing all representatives to sign their name, list the agency they are representing, and telephone number.

meeting - 4/8 10:40 D Fransway, R. Groff
Cypress Gas 11427 Woodside Ave Santee
(Ram Oil)
Finding buried tanks with lines cut off and buried
Will begin doing tank pulls
Site is not paved

Many above-ground tanks

Big operation - Cypress gas has owned for ~1 yr.

Fransway expects some problems here.
Will use Enecotech for investigation (Rick Groff)
Office in Denver (303) 293-2703
Some litigation involved according to Fransway

This work has not started yet.
I will take care when it starts?

DMF

INDUSTRY INSPECTION ADDENDUM REPORT

ESTABLISHMENT # _____ DATE 3-31-87

INSPECTOR Chalmers (C0828)

RAM oil CO. (TEXACO)
11427 - Woodside AVE - Santee 92071

10 Underground storage tanks on property
3 - GASOLINE
4 - diesel
1 - 2500 G Stoddard Solvent
1 - Waste oil 550 G
1 - Kerosene

Owner: (Jim Wigington) told me this date that have tanks have passed precision tests (due again in September) and all tanks are registered with us -- please verify.

this memo is for your information in the tank program.

MENA

DHS:HM-975 (3/86)

COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES

County of San Diego

J. WILLIAM COX, M.D., Ph.D
DIRECTOR
(619) 236-2237

DEPARTMENT OF HEALTH SERVICES

1700 PACIFIC HIGHWAY, SAN DIEGO, CALIFORNIA 92101-2417

ENVIRONMENTAL HEALTH SERVICES
HAZARDOUS MATERIALS MANAGEMENT DIVISION
P O BOX 85261
SAN DIEGO CA 92138-5261
(619) 236-2222

OFFICIAL NOTICE

March 22, 1988
Mr. Anthony Ditty
3430 Camino Del Rio North Ste. 300
San Diego, CA 92108

RE: UNAUTHORIZED RELEASE #T 0948 1H20497
11427 Woodside Avenue Lakeside

Dear Mr. Ditty :

Information provided to this Department by Law Offices of Anthony Ditty indicates that the underground hazardous substance storage facility at the location referenced above has experienced an Unauthorized Release (leak).

The conditions created by the Unauthorized Release must be reported and corrected in accordance with Sections 25295 and 25297 of Chapter 6.7 of the California Health and Safety Code (H&SC) and Section 2652, Subchapter 16, Chapter 3, Title 23 of the California Administrative Code (CAC), and Chapter 6.5 of the H&SC and Title 22 of the CAC.

As the owner/operator of the underground storage tank, it is your responsibility to:

1. Take immediate action to prevent further unauthorized release;
2. Determine the extent and impact of the unauthorized release;
3. Submit a written Unauthorized Release Report to this Department within five workdays of receipt of this Notice;
4. Complete and distribute within five workdays the enclosed State Water Resources Control Board's "Underground Storage Tank Unauthorized Release(Leak)/Contamination Site Report";
5. Submit supplemental report as required to update the initial report; and,
6. Complete any site mitigation (cleanup) required.

The Unauthorized Release Report must address all six Elements listed on the reverse side of this Official Notice, to the extent of the best information known at this time. Additional information and responsibilities are also listed. Please note Item G concerning responsibility for payment for staff time expended on the investigation.

Subsequent site characterization and mitigation actions will be determined upon evaluation of the written report and consultation with the Regional Water Quality Control Board and other appropriate regulatory agencies.

Please call me at (619) 236-2222 if you have any questions regarding this Official Notice.

Sincerely,

Darryl J. Fowler
Hazardous Materials Specialist

Enclosure

cc: RWQCB cc: William Fishbeck

Law Offices of
ANTHONY T. DITTY
3430 Camino Del Rio North
Suite 300
San Diego, California 92108

(619) 281-3366

"HMMU"

MAR 18 3 02 PM '88

Larry O.

March 17, 1988

Water Quality Control Board
9771 Clairemont Mesa Blvd.
Suite B
San Diego, CA 92124-1331

San Diego County Department of Health Services
Underground Tank Unit
P.O. Box 85261
San Diego, CA 92138-5261

Re: Property located at 11427 Woodside Avenue, Lakeside, CA

To Whom it May Concern:

This letter is intended to place the San Diego Department of Health Service and the Regional Water Quality Control Board on notice of a potential release of petroleum products into the soil and possible ground water on property located at 11427 Woodside Avenue, Lakeside, CA.

Some months ago, this property was purchased by my client from Wigington Petroleum. My client has recently discovered a well on the property which contains free floating petroleum product. Two abandoned underground tanks which were apparently leaking prior to my client's taking possession have also been discovered.

My client is in the process of investigating the site and hiring a consultant to define the scope of the problem. Naturally, this office will provide you with all pertinent information upon request. Please contact my office to advise what steps you will require during the initial stages of investigation.

Sincerely,

ANTHONY T. DITTY

ATD:sm
\w\123000sd.ltr

Express Gas

108 Ross Way Ste 501

Reno, NV 89501

WRIGHT COMPANIES

P.O. BOX 2668 • EL CAJON, CALIFORNIA 92021 • (619) 562-3152

SEP 27 3 05 PM '88
HMMU

September 22, 1988

Mr. David Felix
San Diego County Health Department
HMMU
P.O. Box 85261
San Diego, California 92138-5261

Dear Mr. Felix:

Please accept this letter as an update to the investigation at 11427 Woodside Avenue in regards to unauthorized release previously reported. The activities are as follows:

A Report of Investigation has been completed and submitted. The consulting firm is in the process of developing a proposal for a remediation program. This proposal will be sent to HMMU as soon as it is received.

Three samples were collected from the soil stockpile and evaluated for TPH and one sample for BTX. The results are attached. The sampling procedures consisted of digging into the pile at three locations to a depth of approximately one foot. The sample locations were at either end and in the center of the pile, approximately half way between the crest and the botton.

The results indicate that the TEH and BTX's are all below the detectable levels. Upon approval, Buy Wright will have this material transported to a local landfill.

I will contact you as soon as I receive the proposal for the clean-up phase. If you have any questions, please contact me at (619) 562-3152.

Sincerely,

WRIGHT COMPANIES

Dennis F. Fransway

Dennis F. Fransway
Environmental and Safety Coordinator

DFF/saf

QUALITY ASSURANCE LABORATORY

BUY WRIGHT OIL
ATTN: DENNIS FRANSWAY
8685 N. MAGNOLIA
SANTEE, CA 92071

DATE OF REPORT	SEPTEMBER 1, 1988
DATE RECEIVED	AUGUST 23, 1988
DATE OF SAMPLE	AUGUST 18, 1988
DATE COMPLETED	AUGUST 31, 1988
ANALYZED BY	EM SP
SAMPLE TYPE	3 SOIL

ANALYSES RESULTS

		LOG NUMBER:	8608-88	8609-88	8610-88
		SAMPLE ID:	BUY WRIGHT #1	BUY WRIGHT #2	BUY WRIGHT #3
ANALYSIS	METHOD	UNITS:	MG/KG	MG/KG	MG/KG
TPH	DHS EXTRACTION*		<0.5	<0.5	<0.5/<0.5 **
BENZENE	EPA 8020			<0.5	
TOLUENE	EPA 8020			<0.5	
XYLENES	EPA 8020			<0.5	

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

** DUPLICATE ANALYSIS

Dana Walker
DANA WALKER
LABORATORY DIRECTOR

Mailing Address:
P.O. Box 22567
San Diego, CA 92122

San Diego
6555 Nancy Ridge Dr., Suite 300
San Diego, CA 92121
(619) 566-1060
Fax: (619) 458-9093

Arizona
(602) 468-0691
Orange County
(714) 261-7242

QUALITY ASSURANCE LABORATORY
CHAIN OF CUSTODY

COMPANY: Buy Wright Oil (Wright Companies)

PROJECT NAME/NUMBER:

Q.A. LOG NUMBER: 8608-88 TO 8610-88

SAMPLE ID	DATE OF SAMPLE	SAMPLE LOCATION	CONT TYPE	SAMPLE TYPE	ANALYSIS REQUIRED	COMMENTS
Buy Wright #1	8-18-88	Waste Soil	Glass	Soil	TEH	TPH gas + BTX
#2	" "				TEH - BTX	↓
#3	" "				TEH	try to note carbon chains found (ex. C^5-C^{10}) (from Health Dept

SEND RESULTS TO ATTN: Dennis Fransway

PHONE #: 562-3152

MAIL TO: Wright Companies
8685 N. Magnolia Santee 92071

RELINQUISHED BY	DATE/TIME	RECEIVED BY
Dennis F. Fransway	8/23/88	
RELINQUISHED BY	DATE/TIME	RECEIVED BY
RELINQUISHED BY	DATE/TIME	RECEIVED BY

QUALITY ASSURANCE LABORATORY

BUY WRIGHT OIL
ATTN: DENNIS FRANSWAY
8685 N. MAGNOLIA
SANTEE, CA 92071

DATE OF REPORT	SEPTEMBER 1, 1988
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ANALYSIS	METHOD	UNITS:	MG/KG	MG/KG	MG/KG
TPH	DHS EXTRACTION*		<0.5	<0.5	<0.5/<0.5 **
BENZENE	EPA 8020			<0.5	
TOLUENE	EPA 8020			<0.5	
XYLENES	EPA 8020			<0.5	

TPH - TOTAL PETROLEUM HYDROCARBONS

* RECOMMENDED PROCEDURE FROM LEAKING UNDERGROUND FUEL TANK FIELD MANUAL, MAY 1988

** DUPLICATE ANALYSIS

Initial Samples taken from trench walls - may 25

Dana Walker
DANA WALKER
LABORATORY DIRECTOR

Mailing Address:
P.O. Box 22567
San Diego, CA 92122

San Diego
6555 Nancy Ridge Dr., Suite 300
San Diego, CA 92121
(619) 566-1060
Fax: (619) 458-9093

Arizona
(602) 468-0691
Orange County
(714) 261-7242

QUALITY ASSURANCE LABORATORY
CHAIN OF CUSTODY

COMPANY: Buy Wright Oil (Wright Companies)

PROJECT NAME/NUMBER:

Q.A. LOG NUMBER: 8608-88 TO 8610-88

SAMPLE ID	DATE OF SAMPLE	SAMPLE LOCATION	CONT TYPE	SAMPLE TYPE	ANALYSIS REQUIRED	COMMENTS
Buy Wright #1	8-18-88	Waste Soil	Glass	Soil	TEH	TPH gas + BTX
#2	" "				TEH - BTX	↓
#3	" "				TEH	try to note carbon chains found (ex. C^5-C^{10}) (from Health Dept

SEND RESULTS TO ATTN: Dennis Fransway

PHONE #: 562-3152

MAIL TO: Wright Companies
8685 N. Magnolia Santee 92071

RELINQUISHED BY	DATE/TIME	RECEIVED BY
Dennis F. Fransway	8/23/88	
RELINQUISHED BY	DATE/TIME	RECEIVED BY
RELINQUISHED BY	DATE/TIME	RECEIVED BY

"HMMU"
AUG 9 2 50 PM '88

ENVIRONMENTAL ASSESSMENT AT
11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Prepared for:

Buy Wright Oil
868 North Magnolia #B
SanTee, California 92071

Prepared by:

EnecoTech Inc.
Trinity Place, Suite 700
1801 Broadway
Denver, Colorado 80202

August 3, 1988

PROJECT NUMBER: 185-001

EnecoTech

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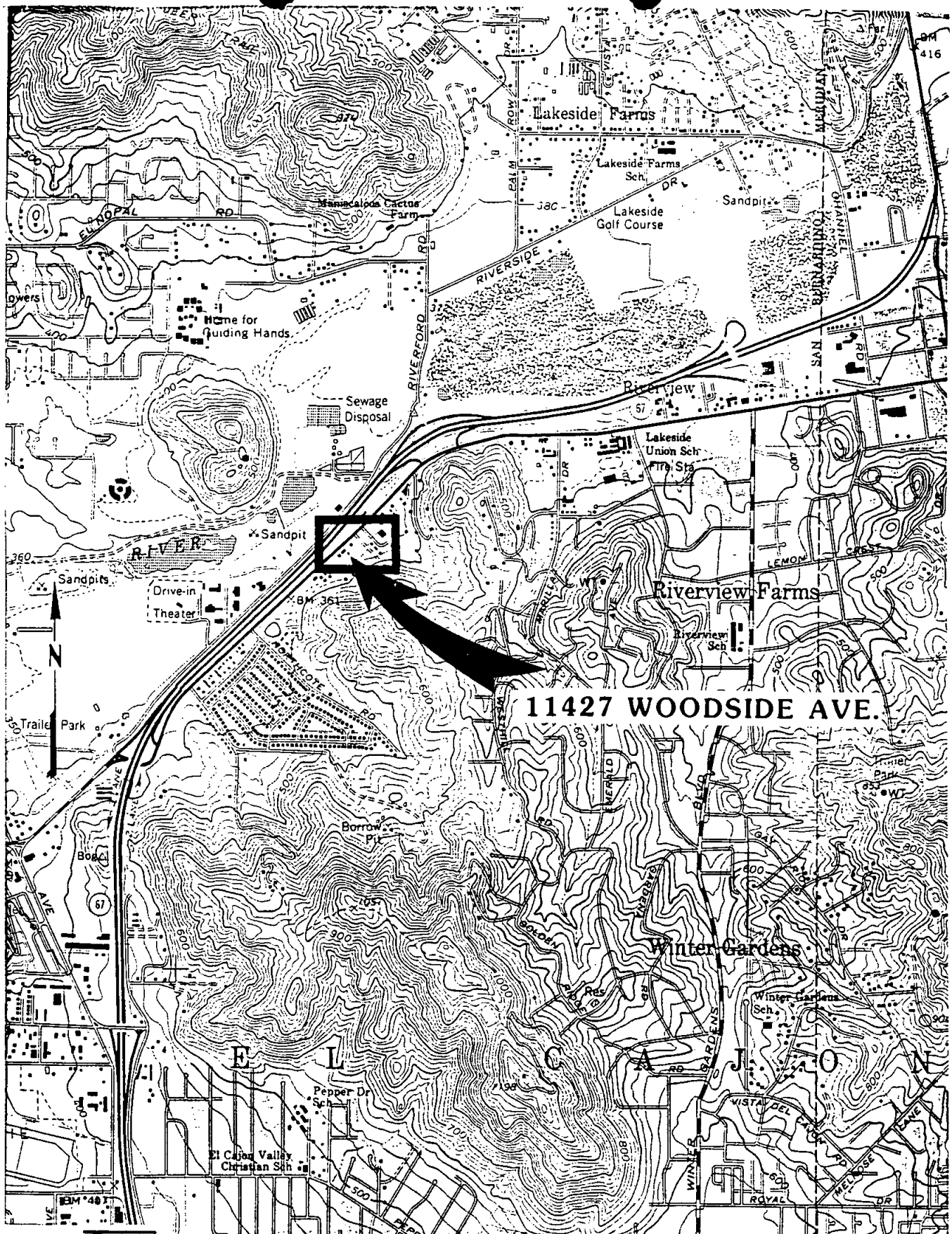
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115514



EnecoTech

Denver Colorado

BUY WRIGHT OIL

Project: 11427 WOODSIDE AVE.

SITE LOCATION MAP

File No.: 185-001 Date: MARCH 88 Figure No.: 1

1.1 Project Description

EnecoTech initiated work on this project in April, 1988. The first task was to evaluate all regional hydrologic and geologic data.

Through evaluation of existing hydrogeologic data available for the region, a network of boreholes was proposed to BWO to determine the existing environment. The boreholes were located to define the horizontal and vertical, the occurrence and extent of any residual petroleum hydrocarbons entrained in the unconsolidated materials at the site.

The borehole construction activities consisted of drilling of nine boreholes to static water level and two boreholes to a total depth of 30 feet. All of the boreholes were drilled with solid stem continuous flight augers. Soil samples were collected from all boreholes for chemical analysis. In addition to the boreholes, four monitoring wells were constructed during this study.

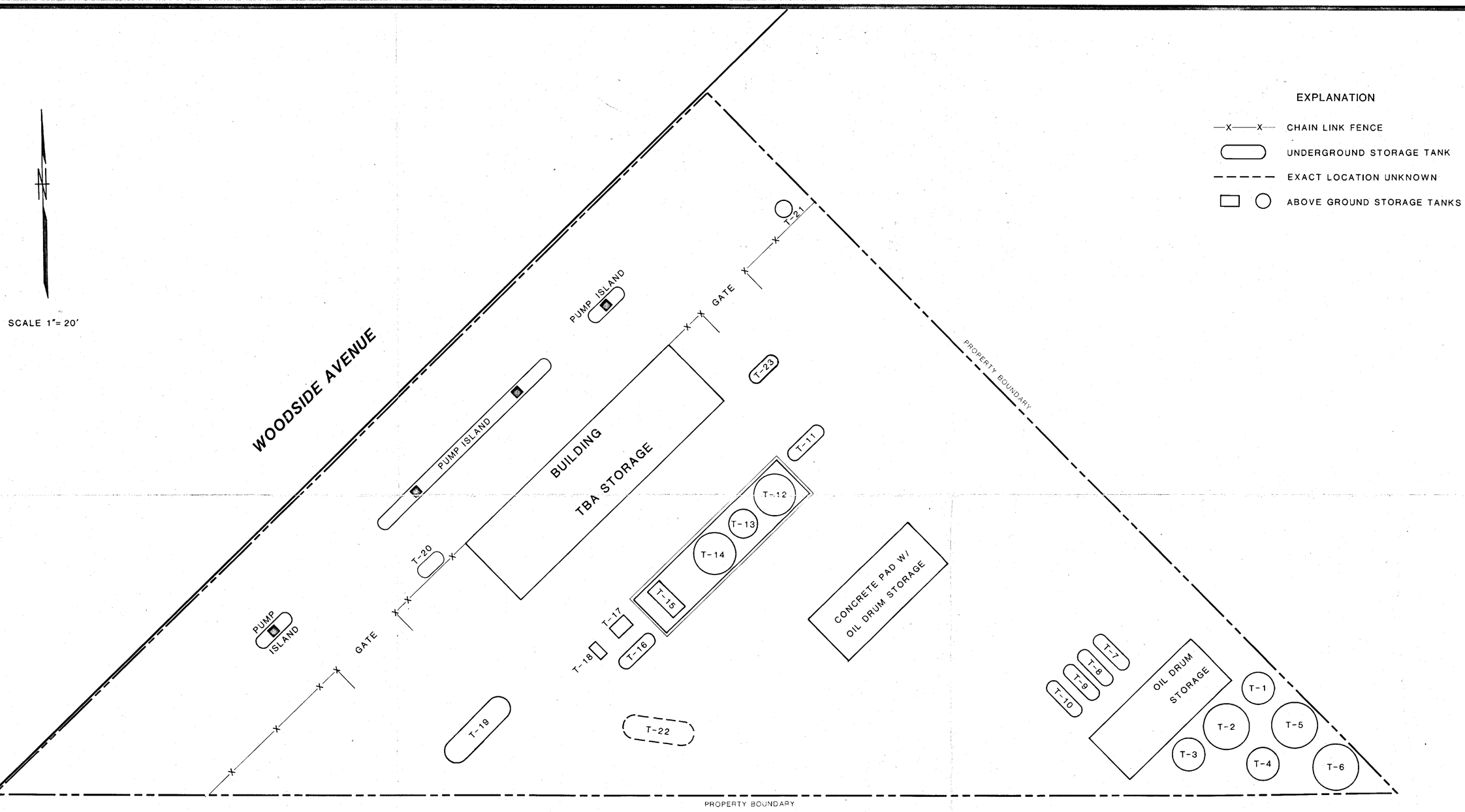
1.2 Facility Overview

The location of the Buy Wright Oil facility is shown on Figures 1 and 2. The facility provides commercial fueling and bobtail service and consists of nine underground storage tanks, eight above ground storage tanks, a barrel storage area and three fuel dispensing islands. Products available at the facility are: Unleaded gasoline, regular gasoline, diesel fuel (#1 and 2), kerosene, solvents and bulk lubricants. The site is located on a triangular parcel land bounded on the southwest and northeast by commercial warehouse facilities, and to the northwest by Woodside Avenue. Further north is Highway 67, other industrial facilities and the San Diego river. Woodside Avenue has moderate traffic, while traffic on Highway 67 ranges from light to heavy.

1.3 Comprehensive Work Plan

A comprehensive work plan was developed to address the following tasks:

- **TASK 1:** Conduct a site visit and tentatively locate borehole locations. Also locate underground utility lines;



EnecoTech
San Diego, California

BUY WRIGHT OIL

Project:
11427 WOODSIDE AVE. SANTEE, CALIFORNIA

SITE PLOT MAP

File No.: 185-001 Date: JULY, 1988 Figure No.: 2

- o **TASK 2:** Drill boreholes to define the vertical and areal extent of contamination. The subsurface geologic and hydrogeologic conditions will also be evaluated. Soil and/or ground water samples will be collected and submitted for analyses. The boreholes will be used to strategically locate monitoring wells.

- o **TASK 3:** Install monitoring wells based on the borehole drilling

- o **TASK 4:** Prepare an environmental report describing the results of the field investigation with recommendations for a recovery program if required.

1.4 Physical Setting

1.4.1 Geology

The BWO facility is located on unconsolidated Quaternary colluvial (slope wash) and alluvial deposits. These deposits unconformably overlie Cretaceous age granitic composition bedrock of the California Batholith (Kennedy and Peterson 1972).

The top of the granitic composition bedrock is highly weathered to an undetermined depth.

1.4.2 Hydrology

The study area borders the El Cajon Hydrologic Area which is characterized by a Mediterranean climate with warm, dry summers and cool, wet winters. The mean annual rainfall ranges from thirteen inches on the valley floor to eighteen inches in the surrounding hills. The mean annual temperature is 63 degrees Fahrenheit (F), with occasional summer temperatures of more than 90^{o}F and winter temperatures below freezing.

1.4.2.1 Surface Water

The BWO facility is located in the San Diego River Basin. The mean annual flow in the San Diego River averages <1 cubic feet per second (cfs). Maximum daily flows can be as high as 3800 cfs for 10 year flood and 9200

cfs for the 100 year event. Peak flows generally occur during spring run-off and major precipitation events. The river is predominantly an intermittent stream in this region.

1.4.2.2 Shallow Ground water

The unconfined, unconsolidated aquifer associated with the San Diego River valley is utilized for domestic and agricultural demands. Recharge to the unconsolidated aquifer occurs by direct precipitation and infiltration, run-off infiltration and from springs and underground recharge from crystalline rocks.

2.0 SITE INVESTIGATION

A phased approach to the field investigation was conducted. This approach allowed an iterative means to determine quantitatively and qualitatively the magnitude of contamination if any, beneath the facility. Those phases consisted of the following major activities.

- o Solid stem auger drilling with modified California split spoon sampling;
- o In-field soil gas quantification of spoon soil samples for pre-laboratory screening
- o Laboratory analysis of split spoon soil samples;
- o Monitoring well construction;
- o Survey of monitoring wells (northing, easting and elevation);
- o Ground water level monitoring; and
- o Ground water sampling and analysis.

2.1 Borehole and Monitoring Well Location Rationale

The objectives of the borehole drilling, sampling and ground water monitoring well construction are to identify the site specific hydrogeologic environment and to identify the horizontal and vertical extent of any residual hydrocarbon contaminants in the soils; any free product on top of the ground water, any dissolved constituents in the ground water, and determine ground water hydraulic gradients and direction of flow. In addition, these data points shall be used in the identification of the sources for any contaminants, either on-site or off-site, past, present and future. All borehole and monitoring well locations were unique with the exception of borehole BH-09 and monitoring well MW-02, which are the same locations.

2.2 Borehole Network

Eleven boreholes were drilled during the course of this field investigation. The boreholes were advanced utilizing an Ingersoll-Rand TH-10 drill rig. Morrison Drilling of Alpine, California, license number 297450, was contracted to conduct the actual drilling. Prior to drilling,

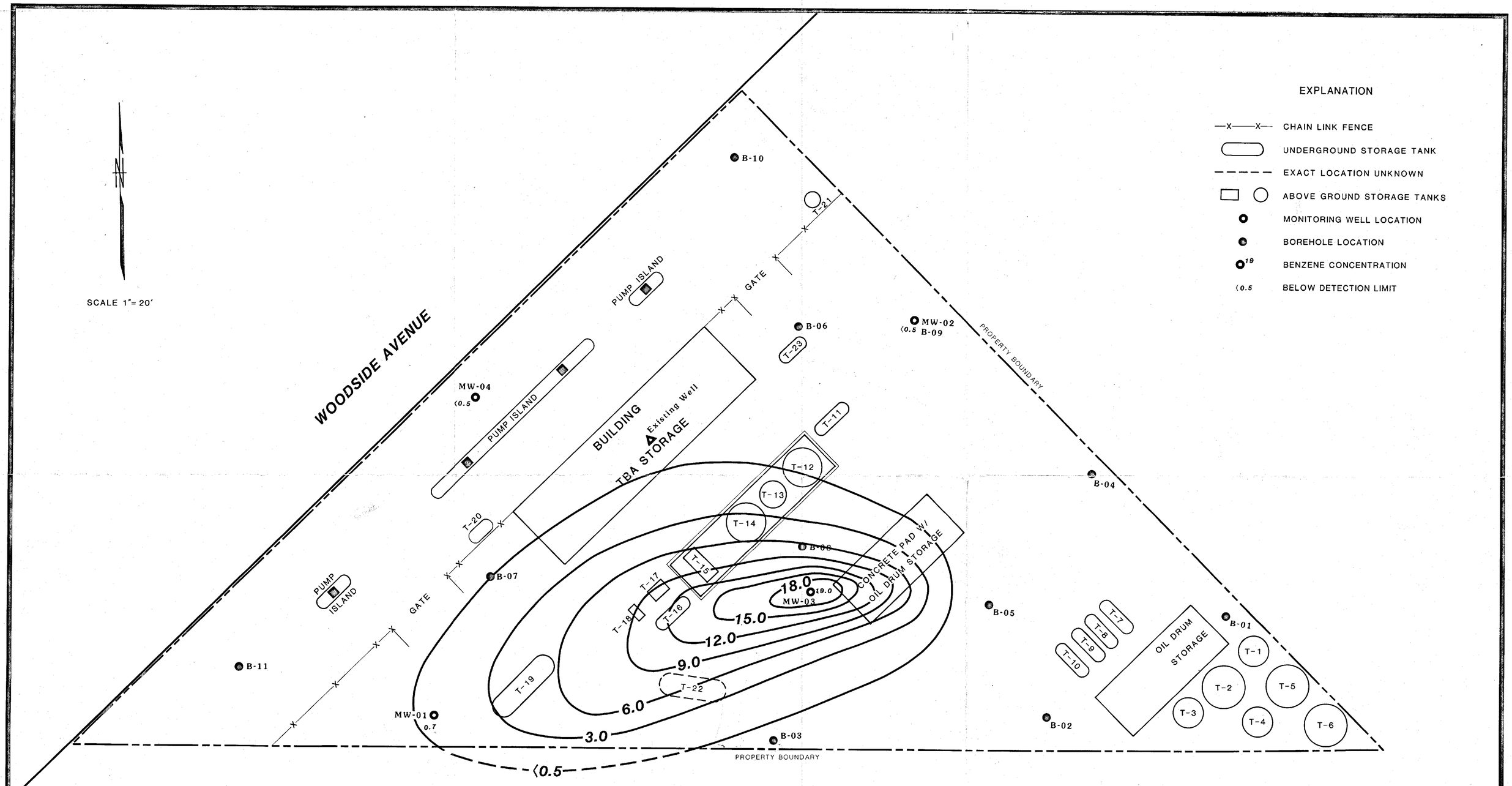
all drilling equipment was inspected and steam cleaned. No drilling fluids were used while drilling the boreholes. The location of the boreholes are presented on Figure 3. Lithologic logs can be found in Appendix C.

2.2.1 Borehole Drilling

The boreholes have been designated with the prefix BH. Modified California split spoon samples were taken from all boreholes. The split spoon sampling method corresponds to accepted sampling methods of both the State of California and the County of San Diego. Boreholes BH-03 through BH-11 were drilled to static water level. Borehole BH-01 and BH-02 were drilled to a total depth of 30 feet, where no ground water was detected. A berm was constructed around the perimeter of all boreholes to prevent surface infiltration in the open borehole. All boreholes were backfilled with a cement bentonite grout subsequent to completion.

2.2.2 Borehole Soil Sample Screening and Sample Collection

The boreholes were drilled with four inch diameter solid stem augers which were tripped out of the boring for split spoon sampling. The borehole side walls displayed excellent integrity and sloughing was minimal. A 2.5 inch inside diameter modified California split spoon sampler equipped with stainless steel sleeves was utilized for sample retrieval. This method of sampling allows detailed analysis of relatively undisturbed soil samples. Sampling frequency was generally on five foot intervals, although some boreholes required increased frequency. Also, some shallow samples were obtained utilizing a shelby tube equipped with stainless steel sleeve driven with a slide hammer. The soil samples were visually inspected by the site geologist to determine textural properties of the soils, and evidence and extent of petroleum hydrocarbon staining. In addition to the visual inspection, an infield evaluation of hydrocarbon contamination was made using a Foxboro Instruments Organic Vapor Analyzer (OVA) flame ionization device. This unit provides a quantification, in parts per million (ppm), of a wide range of volatile hydrocarbons present in the soil atmosphere. The stainless steel sleeves were removed from the split spoon samples, the ends covered with 4 inch wide teflon (TM) tape, capped and placed in a freezer located at the BWO facility All sampling equipment was thoroughly decontaminated utilizing an alconox wash and triple potable water rinse. All samples were submitted to Quality Assurance Laboratory (QAL) of San Diego, California. Chain-of-custody



Water ~30' BGS

NOTE:
- CONTOUR LINES REPRESENT LINES OF EQUAL PARTS PER BILLION
- BOREHOLE LOCATIONS ARE APPROXIMATE

EnecoTech San Diego, California	BUY WRIGHT OIL	BENZENE CONTOUR PLOT GROUND WATER SAMPLES 05-25-88
Project: 11427 WOODSIDE AVE. SANTEE, CALIFORNIA		
File No.: 185-001	Date: JULY, 1988	Figure No.: 7

forms can be found in Appendix D and QAL reports can be found in Appendix E. OVA readings in Table 1 and Analytical results can be found in Table 2.

2.3 Monitoring Well Network

Four ground water monitoring wells were constructed at the BWO facility. Figure 3 shows the location of these monitoring wells. Table 3 presents total depths and depths to water for these monitoring wells. The manner by which these monitoring wells were constructed follows that described by the EPA (1986) and accepted by the State of California and County of San Diego. Lithologic logs can be found in Appendix C and monitoring well as builts can be found in Appendix F. Prior to drilling, all equipment was steam cleaned. No drilling fluids were utilized during well construction.

2.3.1 Monitoring Well Construction

The boreholes for the monitoring wells were also drilled by Morrison Drilling. An Ingersoll-Rand TH-10 was utilized for the drilling program. The boreholes were advanced using 6.25 inch inside diameter hollow stem augers with an approximate 12 inch outside diameter. The lithologic logs were obtained from the cuttings returned on the auger flights. The monitoring wells are designated MW-01 through MW-04.

All hollow stem augers and monitoring well casings were decontaminated by steam cleaning before use. All well construction materials were new and inspected to insure they were free of defects. All well materials were stored at the site wrapped in visqueen sheet plastic. Representative well construction materials were archived for future scrutiny. Standard procedures were followed during the soils investigation, well construction, well development and sampling to avoid cross contamination.

The wells were constructed by drilling approximately ten feet into the saturated zone with the 6.25 inch hollow stem auger. New four inch inside diameter (ID) flush jointed threaded schedule 40 PVC blank and 0.020 inch factory mill slotted casing with threaded end caps were placed through the hollow stem auger to the bottom of the borehole and were then suspended approximately one foot off the bottom of the borehole. Care was taken to ensure that the screened interval in each well was placed at least five feet and no more than ten feet above the static water level detected while drilling. The annular space from the bottom of the borehole to two feet

TABLE 1

OVA READINGS - WHILE DRILLING
11427 WOODSIDE AVENUE
BUY WRIGHT OIL

Borehole Number	Depth[1]	OVA (ppm) TPH
BH-01	5.0	B.G.
	10.5	B.G.
	20.5	1-3 ND
BH-02	3.0	B.G.
	10.0	B.G.
	15.5	B.G. ND
BH-03	10.0	B.G.
	18.0	B.G. ND
	30.0	40-50 46
BH-04	2.0	10.0+
	10.0	B.G.
	30.0	B.G. ND
BH-05	5.0	B.G.
	10.0	B.G.
	30.0	B.G. ND
BH-06	4.0	B.G.
	10.0	75.0 360
	15.0	110
	25.0	75
	30.0	15 280
BH-07	3.0	B.G. ND
	5.0	B.G. ND
	10.0	20.0 2.4

---

[1] Below ground surface (in feet).

TABLE 1
(continued)

OVA READINGS - WHILE DRILLING
11427 WOODSIDE AVENUE
BUY WRIGHT OIL

Borehole Number	Depth[1]	OVA (ppm)	TPH
BH-07	15.0	100+	2.4
	20.0	100+	
	30.0	800	ND
BH-08	3.0	B.G.	
	10.0	B.G.	
	20.0	B.G.	4.4
	25.0	700	
	30.0	350	440
BH-09	4.0	B.G.	
	10.0	B.G.	
	20.0	B.G.	
	30.0	B.G.	ND

---

[1] Below ground surface (in feet).

TABLE 2

ANALYTICAL RESULTS - SOIL SAMPLES
11427 WOODSIDE AVENUE
BUY WRIGHT OIL

(Units in Parts Per Million)

Borehole Number	Sample Depth[1]	TPH	Benzene	Toluene	Xylene	CNTIC#
BH-01	20.5	<0.5	NA[2]	NA	NA	00220
BH-02	15.5	<0.5	NA	NA	NA	00221
BH-03	15.0	<0.5	NA	NA	NA	00222
BH-03	30.0	46[3]	NA	NA	NA	00223
BH-04	30.0	<0.5	NA	NA	NA	00224
BH-05	30.0	<0.5	NA	NA	NA	00225
BH-06	10.0	360[4]	NA	NA	NA	00226
BH-06	30.0	280[4]	<0.5	<0.5	<0.5	00227
BH-07	5.0	<0.5	NA	NA	NA	00228
BH-07	15.0	2.4[5]	NA	NA	NA	00229
BH-07	30.0	<0.5	<0.5	<0.5	<0.5	00230
BH-08	20.0	4.2[5]	NA	NA	NA	00231
BH-08	30.0	440[4]	<0.5	<0.5	<0.5	00232
BH-09	30.0	<0.5	<0.5	<0.5	<0.5	00233
BH-10	5.0	<0.5	NA	NA	NA	00234
BH-10	30.0	<0.5	<0.5	<0.5	<0.5	00235
BH-11	5.0	<0.5	<0.5	<0.5	<0.5	00236
BH-11	30.0	<0.5	<0.5	<0.5	<0.5	00237
MW-04	1.0	14.0	NA	NA	NA	00238
MW-04	5.0	<0.5	<0.5	<0.5	<0.5	00239

---

1 Below ground surface.
2 NA - Not analyzed.
3 Diesel range.
4 Gasoline range.
5 Weathered gasoline.

TABLE 3

DEPTH TO GROUND WATER
11427 WOODSIDE AVENUE
BUY WRIGHT OIL
MAY 25, 1988

Monitoring Well Number	Depth to Water (TOC)[1]	Total Depth (TOC)	Elevation (TOC)[2]	Static Water Elevation[2]
MW-01	28.73	41.32	363.90	335.17
MW-02	30.03	44.15	365.40	335.37
MW-03	30.83	44.39	366.07	335.24
MW-04	27.68	41.81	362.90	335.25

---

1 Top of casing, datum point (feet).
2 Feet above mean sea level.

above the screened interval was backfilled with #3 Lonestar Monterey silica sand. The annular space between the PVC and the inside wall of the hollow stem auger acted as a tremie pipe to eliminate bridging of the sand pack and collapse of the borehole on to the screen. The annular space from the top of the gravel pack to three feet above the top of the gravel pack was sealed with 1/4 inch bentonite pellets, which were hydrated for 1/2 hour. The remaining annular space was sealed with a cement grout (10 percent bentonite) to the surface. The blank PVC casings extended about one foot above ground surface. To protect the well from vehicular impact or tampering, a four foot long, seven inch diameter, locking steel protective casing was placed at the well head so 2.5 feet extended below ground surface and 1.5 feet extended above ground surface with the exception of MW-04. Due to the amount of traffic where MW-04 was located, a flush mount completion was implemented. The flush mount consisted of the aforementioned locking steel well protector being placed to three inches above ground surface and a twelve inch diameter OPW man hole cover, cemented in place four inches above ground surface. Additionally, all wells had a cement apron poured to surround the protective casing and the well head thus preventing surface water from ponding.

2.3.2 Monitoring Well Development

The monitoring wells were thoroughly developed following their construction. This was performed with a surge block and bailing. All development equipment was thoroughly decontaminated prior to insertion into the wells.

2.3.3 Monitoring Well Sampling

Ground water samples were obtained from all newly constructed monitoring wells on May 25, 1988. Ground water sampling procedures included:

- Thorough decontamination of all sampling equipment;
- Measuring fluid levels and total depths of wells;
- Determining well volume;
- Bailing three well volumes from wells utilizing a 3" OD PVC bailer;
- Sample retrieval utilizing an ORS teflon bailer;
- Containing samples in two 40 ml VOA bottles and storing them at $4^{o}C$;
- Sample submitted to Quality Assurance Laboratory for TEH and BTX analysis.

At no time did procedures promote the aeration of samples, or stripping of volatiles (i.e., bailer impacting the water surface thus removing volatiles). Table 4 represents analytical results of water samples. Appendix D contains chain-of-custody forms and Appendix F contains original laboratory reports.

2.4 Additional Site Investigations

2.4.1 Site Discoveries

During the course of this investigation a well was discovered within the main structure at the facility. A thorough search of State engineers records and State well permits, was conducted, but no as built or historic information was recorded. The well is 12" diameter, cement cased with a measured total depth of 35.4'. Static water was measured at 27.9'. An appreciable amount of free floating product was observed in the well. It is felt at this time that the product represents retention in the well and does not reflect HC's present in the adjacent formation material.

Using this basis to draw conclusion

2.4.2 Underground Storage Tanks Removal

Also, concurrent with this investigation, a total of four underground storage tanks (USTs) were excavated and removed from the BWO facility. Dennis Fransway, Environment Coordinator for BWO directed this phase of investigation and conducted all sampling. The City of SanTee Fire Department and SDDH representatives were on-site to observe this activity.

A total of eight soil samples were collected from the side walls and bottoms of the excavated trenches. The samples were contained in eight ounce clear glass jars and immediately stored on ice. These samples were then submitted to Q.A. Laboratory with proper chain-of-custody and analyzed for TEH and selectively BTX. Previous tank and sample locations can be found on Figure 4. Analytical results can be found in Table 5.

2.4.3 Well Surveys

In June, 1988, Arrow Surveying of El Cajon, California was contracted to survey the eastings, northings and elevations of the newly constructed monitoring wells. This information was necessary for determining ground water gradient and direction of flow.

TABLE 4

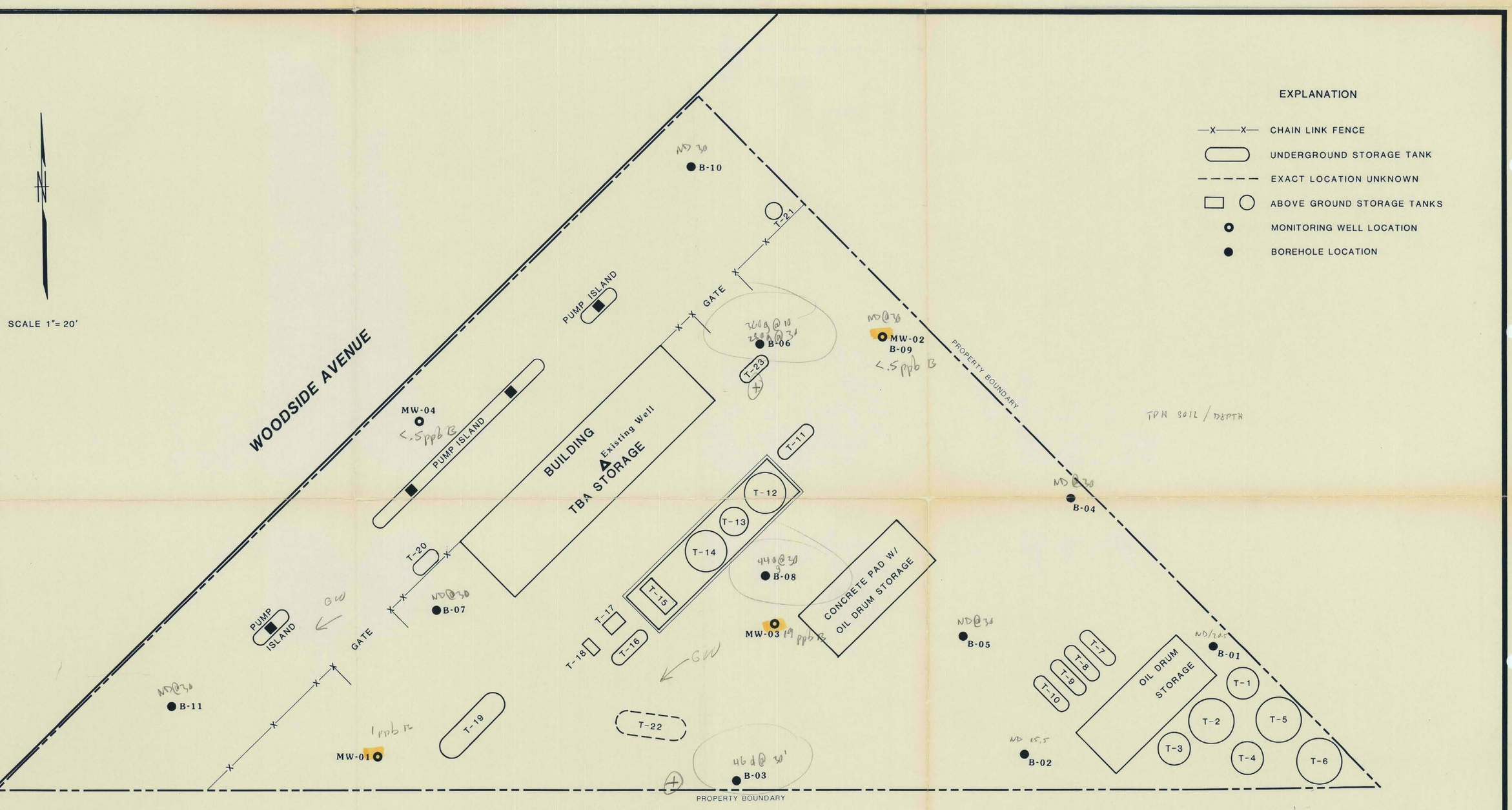
ANALYTICAL RESULTS
GROUND WATER SAMPLES
11427 WOODSIDE AVENUE
BUY WRIGHT OIL
MAY 25, 1988

Well Number	TEH (ppb)	Benzene (ppb)	Toluene (ppb)	Xylene (ppb)
MW-01	0.6	0.7	<0.5	<0.05
MW-02	<0.5[1]	<0.5	<0.5	<0.5
MW-03	140	19	3.4	1.3
MW-04	6.3	<0.5	<0.5	<0.5

---

[1] <0.5 - Below detection limit.

NOTE: ppb - parts per billion.



NOTE: BOREHOLE LOCATIONS ARE APPROXIMATE

EnecoTech San Diego, California	BUY WRIGHT OIL	BOREHOLE AND MONITORING WELL LOCATIONS
Project: 11427 WOODSIDE AVE. SANTEE, CALIFORNIA		
File No.: 185-001	Date: JULY, 1988	Figure No.: 3

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

ORIGINAL
File with DWR

WATER WELL DRILLERS REPORT

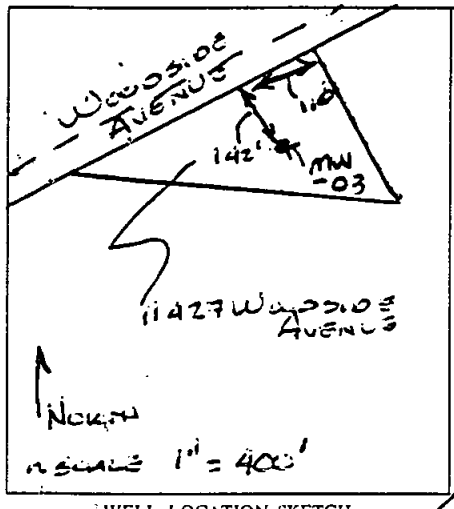
Do not fill in
No. 259753

Notice of Intent No. _____
Local Permit No. or Date 04-26-88

State Well No. _____
Other Well No. _____

(1) OWNER: Name BUJWEIGHT OIL
Address 8081 N. MAGNOLIA
City SANTEE, CA ZIP 92071

(2) LOCATION OF WELL (See instructions):
County SAN DIEGO Owner's Well Number MW-03
Well address if different from above 11427 WOODSIDE, SANTEE
Township 15S Range 1W Section N/A
Distance from cities, roads, railroads, fences, etc. APPROXIMATELY 142' SE FROM AN INTERSECTION AT A POINT 110' FROM NE CORNER



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☑ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☐
(Describe) MONITORING

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☐ Air ☐
Other ☑ AUGER Bucket ☐

(6) GRAVEL PACK:
Yes ☑ No ☐ Size #3
Diameter of bore 8" DIA
Packed from 22' to 46' ft.

(7) CASING INSTALLED:
Steel ☐ Plastic ☑ Concrete ☐

From ft.	To ft.	Dia. in.	Gage or Wall
+1.0	24.5	4"	SCH 40

(8) PERFORATIONS:
Type of perforation or size of screen MFG SLOTTED
Material PVC

From ft.	To ft.	Slot size
24.5	44.5	020

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☑ No ☐ If yes, to depth 19' ft.
Were strata sealed against pollution? Yes ☑ No ☐ Interval 19.0-22.0 ft.
Method of sealing BENTONITE / BENTONITE GROUT

(10) WATER LEVELS:
Depth of first water, if known 26 ft.
Standing level after well completion 30.83 (335.29 MSL) ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☑ If yes, by whom? _____
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☑ No ☐ If yes, by whom? CA LAB
Was electric log made Yes ☐ No ☑ If yes, attach copy to this report

(12) WELL LOG: Total depth 46 ft. Completed depth 44.5 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	2	FILL; LIGHT BROWN, DRY, SILTY GRAVELLY SAND
2	20	SAND; LIGHT BROWN, MOIST, VERY FINE TO FINE SAND WITH A TRACE SILT
20	24	SANDY CLAY; BROWN, MOIST SAND (V. FINE) CLAY WITH OCCASSIONAL SCATTERED GRAVEL
24	46	SILTY SAND; DARK BROWN, MOIST TO WET, VERY FINE TO FINE SILTY SAND ALL = 1 TOTAL DEPTH

Work started 05-13 19 88 Completed 05-13 19 88

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Signed _____ (Well Driller)
NAME MORRISON DRILLING - F.G. MAXWELL (Person, firm or corporation) (Typed or printed)
Address P.O. BOX 117
City ALPINE, CA ZIP 92001
License No. 274570 Date of this report 06-02-88

ONLY
NOT FOR PUBLIC USE
WATER CODE SEC. 7752

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

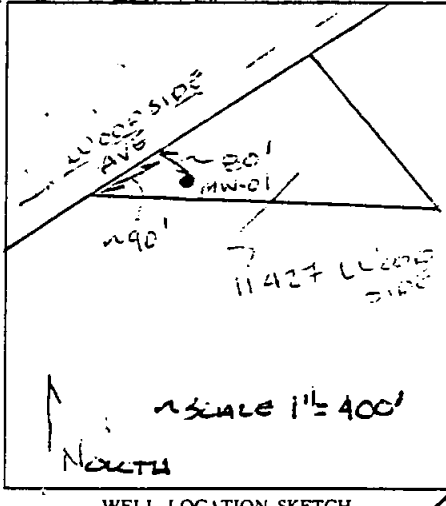
Do not fill in
No. 259751

Notice of Intent No. _____
Local Permit No. or Date 04-26-88

State Well No. _____
Other Well No. _____

(1) OWNER: Name BUYWEIGHT OIL
Address 8681 N. MAGNOLIA
City SANTEE, CA ZIP 92071

(2) LOCATION OF WELL (See instructions):
County SAN DIEGO Owner's Well Number MW-01
Well address if different from above 11427 WOODSIDE SANTEE
Township 15S Range 1W Section N/A
Distance from cities, roads, railroads, fences, etc. APPROXIMATELY 80' SOUTH-SOUTHEAST FROM POINT ON NW SIDE 90' NE FROM SW CORNER



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☑ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☑
(Describe) MONITORING

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☐ Air ☐
Other ☑ Bucket ☐
AUGER

(6) GRAVEL PACK:
Yes ☑ No ☐ Size # 3
Diameter of bore 12" in.
Packed from 20.0 ft. to 46.0 ft.

(7) CASING INSTALLED:
Steel ☐ Plastic ☑ Concrete ☐

From ft.	To ft.	Dia. in.	Gage or Wall
+0.5	22.0	4	SCH 40

(8) PERFORATIONS:
Type of perforation or size of screen: MILL SLOTTED

From ft.	To ft.	Slot size
22.0	46.0	020

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☑ No ☐ If yes, to depth 17.0 ft.
Were strata sealed against pollution? Yes ☑ No ☐ Interval 17.0-20.0 ft.
Method of sealing BENTONITE / BENTONITE GROUT

(10) WATER LEVELS:
Depth of first water, if known ~22 ft.
Standing level after well completion 23.73 (335.17) ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☑ If yes, by whom? _____
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☑ No ☑ If yes, by whom? CA LAB
Was electric log made Yes ☐ No ☑ If yes, attach copy to this report

(12) WELL LOG: Total depth 46 ft. Completed depth 42 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	30'	SILTY SAND GRADING TO SAND; BROWN MOIST TO WET, SILTY VERY FINE SAND WITH A TRACE CLAY
30'	46'	SILTY SANDY CLAY; BROWN TO GREY BROWN, SATURATED, SILTY, SANDY CLAY
	46'	= TOTAL DEPTH

Work started 05-11 19 88 Completed 05-11 19 88

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Signed _____
NAME MICKELSON DRILLING G. MAXWELL (Well Driller)
(Person, firm, or corporation) (Typed or printed)
Address P.O. BOX 117
City ALPINE CA ZIP 92001
License No. 247450 Date of this report 06-02-88

CONFIDENTIAL
NOT FOR PUBLIC USE
WATER CODE SEC. 13752

DWR 188 (REV. 12-86)
IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM
86 96353

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do not fill in

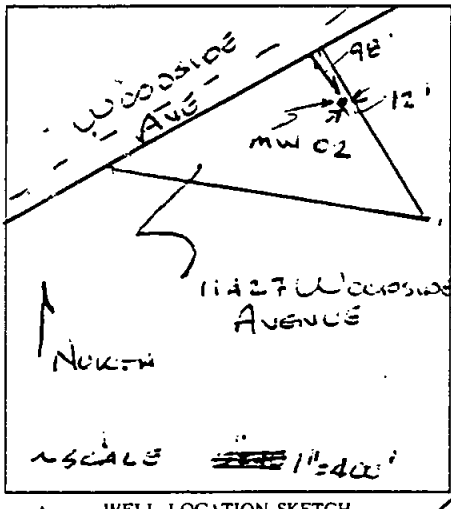
No. 259752

Notice of Intent No. _____
Local Permit No. or Date 04-20-88

State Well No. _____
Other Well No. _____

(1) OWNER: Name BUILDERS OIL
Address 8181 N. MAGNOLIA
City SANTEE, CA ZIP 92071

(2) LOCATION OF WELL (See instructions):
County SAN DIEGO Owner's Well Number MW-C2
Well address if different from above 11427 WOODSIDE, SANTEE CA
Township 15S Range 1W Section N/A
Distance from cities, roads, railroads, fences, etc. APPROXIMATELY 98' SSE [redacted] AT 90° ELCAJON PT 12' FROM NE [redacted] CORNER



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☑ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☑
(Describe) MONITORING

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☐ Air ☐
Other ☑ AUGER Bucket ☐

(6) GRAVEL PACK:
Yes ☑ No ☐ Size #3
Diameter of bore 12"
Packed from 22 ft. to 46 ft.

(7) CASING INSTALLED:
Steel ☐ Plastic ☑ Concrete ☐

From ft.	To ft.	Dia. in.	Gage or Wall
+1.0	24.0	4"	SCH 40

(8) PERFORATIONS:
Type of perforation or size of screen: MACHINE SLOTTED

From ft.	To ft.	Slot size
24.0	46.0	020

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☑ No ☐ If yes, to depth 19.0 ft.
Were strata sealed against pollution? Yes ☑ No ☐ Interval 19.0-22.0 ft.
Method of sealing BENTONITE / BENTONITE GROUT

(10) WATER LEVELS:
Depth of first water, if known 29 [redacted] ft.
Standing level after well completion 30.03 [redacted] MSL ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☑ If yes, by whom? _____
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☑ No ☐ If yes, by whom? CAL LABS
Was electric log made? Yes ☐ No ☑ If yes, attach copy to this report

(12) WELL LOG: Total depth 46 ft. Completed depth 46 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
C	7'	SILTY SAND, BROWN, DENSE, MOIST, SILTY FINE SAND
7	22'	SAND, LIGHT BROWN, MOIST, FINE TO MEDIUM SUBANGULAR QUARTZ SAND WITH A TRACE OF COARSE AND VERY FINE SAND
22	46	SANDY SILTY CLAY, BROWN, MOIST TO WET, SANDY SILTY CLAY
	46	END OF BORE

[redacted]

Work started 05-12 19 88 Completed 05-13 19 88

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Signed _____ (Well Driller)

NAME MCKISSICK DRILLING - G MAXWELL (Person, firm, or corporation) (Typed or printed)

Address P.O. BOX 117

City ALPINE CA ZIP 92001

License No. 297450 Date of this report 05-02-88

DWR 188 (REV. 12-86) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM 86 96355

NOT FOR PUBLIC USE
WATER CODE SEC. 13752

APPENDIX C

LITHOLOGIC LOGS

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION MW-01
			0-30.0 SILTY SAND GRADING TO SAND; Brown, moist to wet, silty, very fine sand with < trace clay.
5			
			@ 9.0' Grades to a fine to medium sand with a trace coarse sand.
10			
			@ 13.0 Grades to a fine to medium sand with some coarse to very coarse sand.
15			
20			
25			@ 25.0-26.0' Grey brown, moist, sandy (very fine) silty clay lense.
			▽ 28.73' (05/25/88)
30			30.0-46.0 SILTY SANDY CLAY; Brown to grey brown, saturated, silty, sandy clay.
40			
45			@ 44.0' Scattered gravels to 1" diameter.
			Total Depth = 46.0'

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
5-11-88

DATE COMPLETED
5-11-88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Hollow Stem Auger

DRILL RIG
Ingersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

SUPERSEDED

ENECOTECH
San Diego, California

BUY WRIGHT OIL

LITHOLOGIC LOG OF MONITORING WELL BORING

PROJECT 11427 WOODSIDE
SANTEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION MW-02	
			0-7'	SILTY SAND; brown, dry to moist, silty fine sand
	X	B.G.		
5			7-22'	SAND; light brown, fine to medium, sub-angular sand with a trace coarse and very fine sand.
10	X	B.G.		
15				
			17-18'	Silty clay lense
20				
			22'-46	SANDY SILT CLAY; Brown, moist to wet, sandy, silty clay
25				
			@ 27'	Increase in clay
30	X	B.G.	▽ 30.03' (05/25/88)	
40				
45			Total Depth = 46.0'	

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
05-12-88

DATE COMPLETED
05-12-88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Hollow Stem Auger

DRILL RIG
Ingersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

CONFIDENTIAL

EnecoTech
San Diego, California

BUY WRIGHT OIL

LITHOLOGIC LOG OF MONITORING WELL BORING

PROJECT 11427 WOODSIDE
SAN TEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION MW-03
			0-2.0 FILL; Light brown, dry, silty gravelly sand
			2.0-20' SAND; Light brown, moist, very fine to fine sand with a trace silt.
5			
10			
15			
			20'-24.0' SANDY CLAY; Brown, moist, sandy (very fine) clay with occassional scattered gravel to 1" diameter.
20			
			24.0-46.0 SILTY SAND; Dark brown, moist to wet, very fine to fine silty sand.
25			@25' SLIGHT HC ODOR
			@30' STRONG HC ODOR
30			▽ 30.83' (05/28/88)
40			
45			Total Depth = 46.0'

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION
0'

DATE STARTED
5-13-88

DATE COMPLETED
5-13-88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Hollow Stem Auger

DRILL RIG
Ingersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

CONFIDENTIAL

EnecoTech
San Diego, California

BUY WRIGHT OIL

LITHOLOGIC LOG OF MONITORING WELL BORING

PROJECT 11427 WOODSIDE
SAN TEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION MW-04
			0-0.5 ASPHALT
			0.5-5.0 SILTY SAND; Brown, dry to moist, silty very fine sand.
5			5.0-18.0 SAND; Light brown, moist fine to medium sand with a trace coarse sand.
10			
15			
			18.0-22.0' SILTY SANDY CLAY; Grey brown, moist to wet, silty sandy clay.
20			
25			
			27.0-44.0' SAND; Light brown, fine to medium sand with a trace clay, trace silt.
30			▽ 27.68' (05/25/88)
40			Total Depth = 44.0'
45			

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
5-13-88

DATE COMPLETED
5-13-88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Hollow Stem Auger

DRILL RIG
Ingersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

EnecoTech
San Diego, California

BUY WRIGHT OIL
PROJECT 11427 WOODSIDE
SAN TEE, CALIFORNIA

LITHOLOGIC LOG OF MONITORING WELL BORING

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION
			BH-01
0			0-4.5' SANDY SILT; brown, dry to moist, sand (very fine to fine) silt with a trace to some, fine to medium, subangular gravel and a trace clay
5	X	B.G.	4.5-16.5' SILTY SANDY CLAY; red brown, moist, silty, sandy clay - color change to a light red brown
10	X	B.G.	
15			16.5-30.0' WEATHERED BEDROCK - DECOMPOSED GRANITE; brown, slightly moist highly weathered granadiorite composition bedrock
20	X	B.G.	
25			
30			Total Depth = 30.0'

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
4/28/88

DATE COMPLETED
4/28/88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Solid Stem Auger

DRILL RIG
Ingersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

CONFIDENTIAL

EnecoTech
San Diego, California

BUY WRIGHT OIL

LITHOLOGIC LOG OF SOIL BORING

PROJECT 11427 WOODSIDE
SAN TEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION BH-02
0			[GP] SILTY CLAY; brown, moist silty clay with a trace fine to medium sand.
0	X	B.G.	
5			@ 6.0' Color change to red brown
10	X	B.G.	@ 10.5' Grades to a sandy clay
15	X	B.G.	
			@ 17.0' DECOMPOSED GRANITE - WEATHERED BEDROCK; brown, slightly moist, highly weathered granodionite composition bedrock
20			
25			
30			Total Depth = 30.0'

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
04/30/88

DATE COMPLETED
04/30/88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Solid Stem Auger

DRILL RIG
Ingersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

CONFIDENTIAL

EnecoTech
San Diego, California

BUY WRIGHT OIL

LITHOLOGIC LOG OF SOIL BORING

PROJECT 11427 WOODSIDE
SAN TEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION BH-03
0			0-0.5' FILL; light brown, sandy fine gravel. 0.5' SILTY SAND; brown, moist, silty very fine to fine sand with a trace clay
10	X	B.G.	8.0' Grades to a fine sand with a trace medium to coarse sand 10.5; SILTY CLAY: brown, moist silty clay with a trace fine sand
15	X	B.G.	
20			19.0' Sand lense 21.0' SCATTERED GRAVLES TO 2" WITHIN SILTY SAND CLAY MATRIX; OVA = 70-90 ppm off cuttings
25			
30	X	45	Total Depth = 30.0'

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
04/29/88

DATE COMPLETED
04/29/88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Solid Stem Auger

DRILL RIG
Ingersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

CONFIDENTIAL

EnecoTech
San Diego, California

BUY WRIGHT OIL

LITHOLOGIC LOG OF SOIL BORING

PROJECT 11427 WOODSIDE
SAN TEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION — BH-04
0	X	10+	0-11.0' SANDY SILT; brown, moist, sandy (very fine to fine) silt with a trace clay
5			@7.0' Increase in clay content
10	X	B.G.	11.0-17.0' SANDY CLAY; brown, moist sandy clay with a trace silt
15			17.0-30.0' CLAY; red brown, moist to wet (at V), clay with a trace sand.
20			
25			
30	X	B.G.	Total Depth = 30.0'

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
04/29/88

DATE COMPLETED
04/29/88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Solid Stem Auger

DRILL RIG
Ingersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

CONFIDENTIAL

ENECOTECH
San Diego, California

BUY WRIGHT OIL

LITHOLOGIC LOG OF SOIL BORING

PROJECT 11427 WOODSIDE
SAN TEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION BH-05
0			0-2' SANDY CLAY; brown, dry to moist, silty sandy clay 2-4' SAND CLAY; brown, moist sandy (very fine) sand
5	X	B.G.	4.0' SAND; light brown, moist, fine to medium, angular to subangular sand with a trace coarse sand
10	X	B.G.	10.0' Grades to a fine to coarse sand 11-12' Clay lense
15			
20			22-24' Clay lense
25			24.0' Grades to a fine to very coarse sand with scatterings surround gravles up to 2" OVA
30	X	B.G.	Total Depth = 30'

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
04/29/88

DATE COMPLETED
04/29/88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Solid Stem Auger

DRILL RIG
Ingersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

CONFIDENTIAL

EnecoTech
San Diego, California

BUY WRIGHT OIL

LITHOLOGIC LOG OF SOIL BORING

PROJECT 11427 WOODSIDE
SAN TEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION
			BH-06
0			0-0.5' ASPHALT 0.5-2' SILTY SAND; brown, moist silty sand with a trace clay
5	X	B.G.	2.0-16.0' SAND; light brown, moist, fine to medium sand with a trace coarse to very coarse sand
10	X	N/A	
15	X	N/A	@ 14' COLOR CHANGE TO LIGHT GREY, BROWN; vapor stain? Slight H C odor 16-30' SILTY CLAY; brown, moist, silty sandy clay
20			@ 22' Decrease in clastics (sand)
25	X	N/A	
30	X	N/A	Total Depth - 30'

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
04/30/88

DATE COMPLETED
04/30/88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Solid Stem Auger

DRILL RIG
Ingersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

CONFIDENTIAL

ENECOTECH
San Diego, California

BUY WRIGHT OIL
LITHOLOGIC LOG OF SOIL BORING

PROJECT 11427 WOODSIDE
SAN TEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

TABLE 5

ANALYSIS OF SOIL SAMPLES
TRENCH SIDE WALL: BOTTOM SAMPLES
11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

(Units in Parts Per Million)

Sample Number	Tank Trench	Number	TEH	Benzene	Toluene	Xylene
550-15[1]	550		<0.5	NA[2]	NA	NA
550-2B[3]	550		1100	65	475	130
550-3B	550		59	<0.5	8	9
880-1BI	880	DIESEL	600	<0.5	3.5	40
880-2	880		110	NA	NA	NA
1000-1B	1000	2000 Gls	<0.5	<0.5	<0.5	<0.5
5K-B	5000		110	<0.5	<0.5	<0.5
5K-5	5000	DIESEL	1300	NA	NA	NA

---

1 Trench side wall sample.
2 NA - Not analyzed.
3 Trench bottom sample.

3.0 SITE SPECIFIC CHARACTERIZATION

Site specific geologic, hydrogeologic and evidence of petroleum hydrocarbon contamination was determined from data generated by the implementation of the aforementioned field activities. The following section discusses this data and correlates it with regional setting.

3.1 Site Geology

The geology at the BWO facility consists of alluvial interbedded with colluvial material transported and deposited via stream flow (flash flood) and slope wash (shed off the hillside to the south). These materials were deposited unconformably on a granite composition bedrock which displayed extreme weathering.

Alluvial material consisted of angular, fine to medium sands with occasional increases in grain size to very coarse sand with scattered gravels to two inches diameter. Grading within the alluvial material was poor ranking the material as GP on the United Soil Classification Scheme (USCS). Based on local topography, the majority of the alluvial material originated from drainages to the south which are minor, first order tributaries of the San Diego River to the North.

Colluvial, slope wash material consisted of sandy clay loams, silty clay loams with occasional scattered gravels to one inch diameter. Ranking of the colluvial material on the USCS placed it in the CL, SM range. Based on local topography, the material the colluvial material originated from the hillsides to the south.

3.2 Site Hydrology

Ground water encountered at the BWO facility was limited to unconfined perched water within the unconsolidated alluvial and colluvial materials. Depth to ground water ranged from 28 to 30 feet in boreholes BH-033 through 11 and monitoring wells MW-01 through MW-04. Ground water was not encountered in boreholes BH-01 and BH-02 due to the shallow depth to weathered bedrock (17-18 feet).

Ground water flow direction is to the west and in the direction of the San Diego River. The ground water gradient at the site is approximately four feet per mile. A contour plot of the shallow ground water can be found on Figure 5.

3.3 Petroleum Hydrocarbon Contamination

The residual hydrocarbon contamination is confined to depths of 10 to 20 feet below the ground surface. The vertical distribution of the residual products indicates that most of it is entrained in the vadose zone.

3.3.1 Residual Hydrocarbons Contamination

Residual hydrocarbon contamination was observed in boreholes BH-06, BH-07 and BH-08. TEH values on the order of 360 ppm, 2.4 ppm and 440 ppm respectfully was encountered was in these borings, slightly elevated TEH was also encountered in MW-04 at 1 foot, but due to the close proximity to the pump island, it is suspected to represent a very local, shallow (1.0') occurrence. Field screening with the OVA generally supported these analytical results (see Tables 1 and 2).

Soil sample analysis adjacent to underground storage tanks upon their removal indicated the greatest values in TEH. Much of this contamination appeared to occur at the fill end of the tanks indicating that much of this contamination was a result of spillage while filling rather than questionable tank/line integrity.

3.3.2 Ground Water Hydrocarbon Contamination

There was no measurable immiscible layer of hydrocarbons detected while monitoring fluid levels in the newly constructed monitor wells. Although, a slight sheen and odor was detected in MW-03.

Analytical results of ground water samples taken from these wells indicated elevated TEH in Monitoring Wells MW-01, MW-03 and MW-04 (Table 4). Additionally, benzene was detected in MW-03 and MW-01 as well as toluene and xylene in MW-03. Figures 6 and 7 display contour plots for TEH and benzene.

SCALE 1"= 20'

WOODSIDE AVENUE

PUMP ISLAND

PUMP ISLAND

GATE

GATE

PUMP ISLAND

BUILDING

TBA STORAGE

CONCRETE PAD W/ OIL DRUM STORAGE

OIL DRUM STORAGE

T-1

T-2

T-3

T-4

T-5

T-6

T-7

T-8

T-9

T-10

T-11 SP-5K 5000 gal. tank

T-12

T-13

T-14

T-15

T-16

T-17

T-18

T-19 SP-7500 7500 gal. tank

T-20 SP-550 550 gal. tank

T-21

T-22

T-23 SP-880 880 gal. tank

PROPERTY BOUNDARY

PROPERTY BOUNDARY

SOIL TPH ppm

660-110

DIESEL

ND

GAS

1100

RACING GAS

DIESEL 1300 - 110

EXPLANATION

—X——X— CHAIN LINK FENCE

UNDERGROUND STORAGE TANK

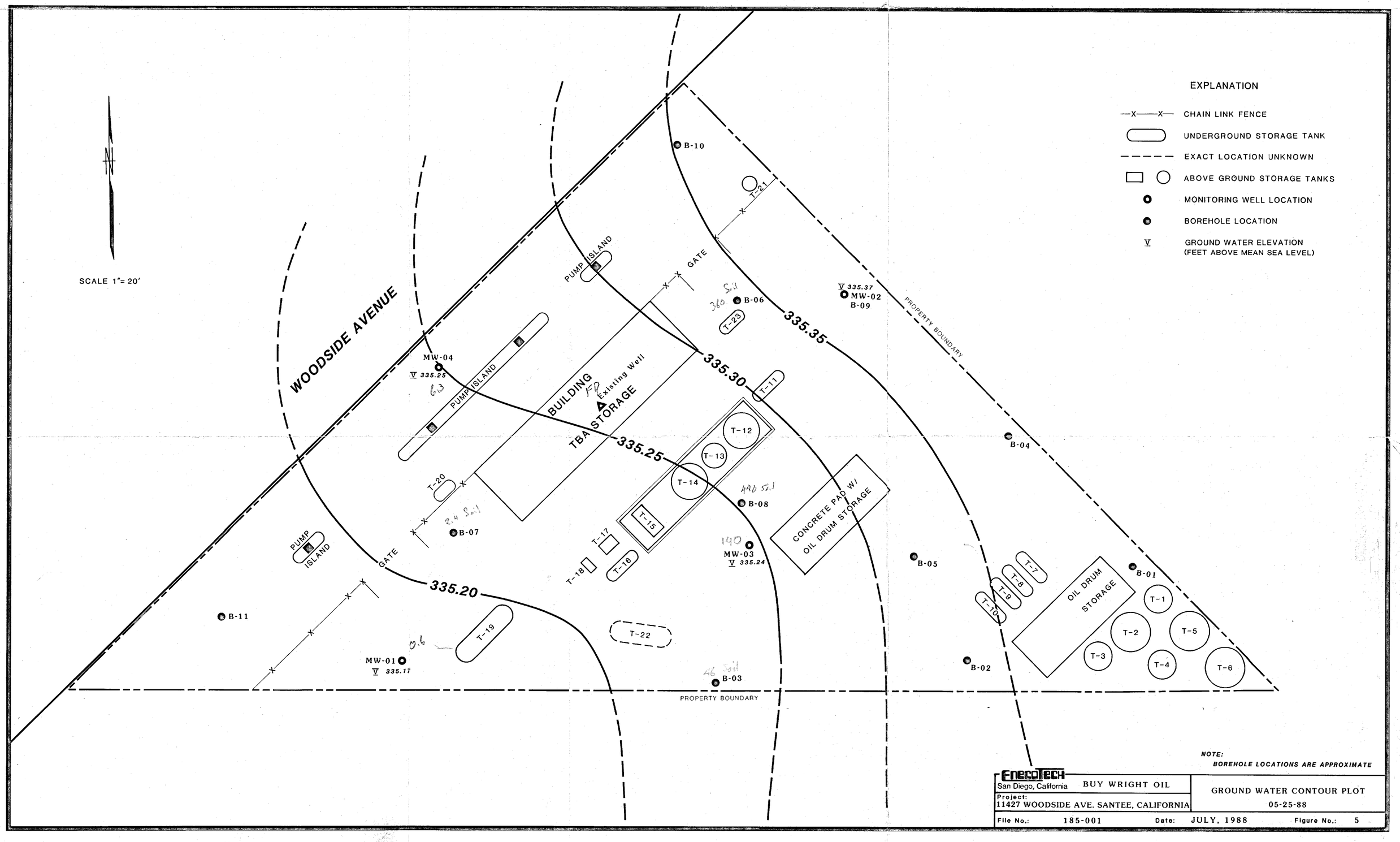
EXACT LOCATION UNKNOWN

ABOVE GROUND STORAGE TANKS

REMOVED UNDERGROUND STORAGE TANK

SP-550 SAMPLE PREFIX

EnecoTech San Diego, California	BUY WRIGHT OIL	LOCATIONS OF REMOVED UNDERGROUND STORAGE TANKS
Project: 11427 WOODSIDE AVE. SANTEE, CALIFORNIA		
File No.: 185-001	Date: JULY, 1988	Figure No.: 4



EnecoTech San Diego, California	BUY WRIGHT OIL	GROUND WATER CONTOUR PLOT 05-25-88
Project: 11427 WOODSIDE AVE. SANTEE, CALIFORNIA		
File No.: 185-001	Date: JULY, 1988	Figure No.: 5

4.0 CONCLUSIONS

Hydrocarbon contamination at the BWO facility was evidenced in soils beneath the site based upon field observations and analytical results. Contamination of ground water was limited to dissolved constituents with no measurable free floating hydrocarbons detected in the newly constructed wells. However, free product was observed in an existing well at the site which was discovered during the course of this investigation.

Upgradient and perimeter boreholes support the contention that hydrocarbon contamination is present at the site but displays little or no off-site migration. Upgradient boreholes BH-01, BH-02 and BH-05 displayed no hydrocarbon contamination based on field observation and analytical data. Perimeter boreholes BH-04 and BH-09, also displayed no hydrocarbon contamination.

Soil samples collected from centrally located boreholes BH-06, BH-07 and BH-08 did display hydrocarbon soil contamination with TEH results of 360 ppm, 2.4 ppm and 440 ppm respectfully. Perimeter borehole BH-03 also displayed hydrocarbon contamination on the order of 46ppm. This contamination was in the diesel, gasoline and weathered gasoline range.

Soil samples collected from downgradient boreholes BH-10 and BH-11 displayed no hydrocarbon contamination visually or analytically. Also, soil samples that were taken while drilling downgradient monitoring well MW-04 displayed TEH of only 14.0ppm. As was mentioned previously due to the shallow depth of this sample, one foot, and the proximity to the central pump island, it is suspected to represent local surficial contamination. A sample taken at five feet in MW-04 showed no contamination.

Ground water samples collected from the newly constructed wells support no or minimal off-site migration of hydrocarbon contaminants. No free product was detected in the monitoring wells, although centrally located MW-03 displayed TEH concentrations on the order of 140 parts per billion (ppb) and benzene, toluene and xylene concentrations on the order of 19 ppb, 3/4 ppb and 1.3 ppb. Also, perimeter monitoring well MW-01 displayed TEH concentration of 0.6 ppb and benzene on the order of 0.7 ppb and MW-04 displayed TEH concentrations of 6.3 ppb.

Based upon this field and analytically generated data, it is apparent that petroleum hydrocarbon contamination at the facility is centrally located and is not significantly impacting the water resources of the area.

5.0 RECOMMENDATIONS

EnecoTech's recommendations for remediation at the BWO facility will be limited by the scope of the investigation completed to date. Based upon the initial site assessment and assuming no or minimal off-site migration of hydrocarbon contamination, remediation could be successfully undertaken by the following two methods, additional data gathering activities and concerns:

- Due the large amount of soil that would require removal from the site, active soil venting could be employed to mitigate residual volatile hydrocarbons entrained in the vadose zone. This venting could atmospherically exhausted or, alternatively treated with an absorbent or catalytic combustor.

Additional data may be required to determine the mechanics of air flow through the soils present at the site.

- Based upon the meeting with the County of San Diego Department of Health representative, Dave Phelix, ground water is considered a beneficial use in the area and, therefore, benzene concentrations cannot exceed 0.7 ppb. Hence, remediation of ground water at the site will be required. A recovery well, or wells can be utilized to remove ground water at the site. On-site treatment of this water utilizing a stripper or carbon filter device can be implemented.

Site specific aquifer data acquisition efforts will be necessary to implement the pumping and on-site treatment of ground water. These efforts may include, but are not limited to:

1. Pumping or slug tests to determine properties used to calculate maximum/minimum pumping rates and their radius of influence, etc.

2. The permitting of the appropriation of ground water and on-site treatment.

APPENDIX A

COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH
PERMIT APPLICATION

ENECOTECH

April 21, 1988

County of San Diego
Department of Health Services
Hazardous Materials Management Unit
1700 Pacific Highway
San Diego, California

Attention: Mr. Kevin Heaton 185-001

Dear Mr. Heaton,

Enclosed please find the permit application for the construction of 5 monitoring wells to be constructed at Buy Wright Oil's (BWO) facility located at 11427 Woodside Avenue, Santee, California (parcel #382-320-0600). Also, enclosed is a check for $600.00 to cover the cost of processing this permit, a site plot plan, permit application supplement and tentative well construction specifications. The total number of necessary monitoring wells to be constructed is preliminary. The County of San Diego Department of Health Services will be notified during and upon completion of the proposed field activities to determine the need to modify the attached permit application.

All monitoring wells will be constructed in accordance with the County of San Diego and State of California regulations utilizing Morrison Drilling, License Number 297450, of Alpine, California. Morrison Drilling is recognized as a knowledgeable driller in this region and will aid in the completion of the proposed field activities.

Buy Wright Oil also proposes the construction of 10 to 15 boreholes to be advanced to a total depth not greater than 30' or above static water level. The boreholes will be utilized for soil sampling so as to determine an environmental assessment in the unsaturated zone at the facility, which will also aid in the locating of the proposed monitoring wells. Upon completion, all boreholes will be properly abandoned with a cement-bentonite grout mixture from total depth to ground level. Buy Wright Oil requests exemption from the fee for these proposed boreholes with the understanding that they will be properly abandoned subsequent to their completion.

P.O. Box 27135 • San Diego, California 92128-0917 • (619) 487-0884

If you have any questions concerning this matter, please do not hesitate to contact me at (619) 931-8787 or Dennis Fransway at (619) 562-3152.

Sincerely,

Rick G. Graff
Project Hydrogeologist

RGG:js

Attachments

A.P.N. 382-320-06
Control # H9469

PERMIT APPLICATION FOR GROUND WATER AND VADOSE MONITORING WELLS

Site Address: 11427 Woodside Avenue Santee California 92001

Property Owner:
Name Bud Wright Oil Phone # (619) 562-3152
Mailing Address 8685 Magnolia #B Santee California 92001

Driller:
Name Morrison Drilling License # 297450 Phone # (619) 445-0205
Mailing Address PO Box 117 Alpine CA 92001

Registered Geologist/Engineering Geologist/Civil Engineer (RG/CEG/RCE):
Name Benjamin P Doty Reg. # C 039295 Phone # (303) 233-0577
Mailing Address 1240 Orchard Road Golden Colorado 80401

Number of Wells To Be Constructed: 5 monitoring wells 10 borings | 600.00 fee paid on 4-22-88 CK 18446

Bond Posted By: Morrison Drilling | Proposed Date of Drilling: April 25-29 1988

Type of Well:
- ✓ Ground Water
- ___ Vadose
- ___ Other

Drilling Method:
- ✓ Auger
- ___ Mud Rotary
- ___ Air Rotary
- ___ Percussion
- ___ Other ___

Materials To Be Used:
Casing
- Type PVC
- Gauge SCH 40
- Diameter 4"
- Well Screen Size .020

Seal
- ✓ Neat Cement
- ✓ Cement & Bentonite
- ✓ Other Bentonite

Gravel Pack
- Specify To be determined after sieve analysis

Proposed Construction:

Cement Seal	0	to	17'
Bentonite Seal	17'	to	20'
Gravel Pack	20'	to	43'
Perforation	22'	to	42'

Note: For wells with multiple completion attach a well construction diagram.

I hereby agree to comply with all regulations of of Department of Health Services and with all ordinances and laws of the County of San Diego and the State of California pertaining to well construction and destruction.

Bud Morrison 4-19-88
Driller Signature Date

Disposition of Application
✓ Approved ___ Denied

Conditions Submit additional Bore with well log. All borings shall be sealed as required in accordance with DEHP Bulletin 74-81

Within 30 days of well completion, I will furnish the Department of Health Services and the State of California with a complete and accurate well log. I will certify the design and construction of the well in accordance with the permit application.

Terri M. Hall 4-26-88
Health Officer Date

RG/CEG/RCE Signature 04/17/88
Date

PERMIT APPLICATION SUPPLEMENT
VADOSE AND GROUND WATER MONITORING WELLS

1. Well design, logging and construction must be supervised by a Geologist, Engineering Geologist or Civil Engineer who is registered or certified by the State of California.

2. Provide verification of a Well Drilling C-57 license.

3. Provide a plot plan giving location of existing improvements such as structures, underground tanks, underground utilities, underground piping and the proposed monitoring and/or observation wells.

4. What is the proposed purpose of the well? To monitor the ground water quality of the shallow alluvial aquifer.

5. What procedures will be used to prevent the well from providing an avenue to contamination during construction?

A burm will be constructed around the perimeter of the boring, sand bags and Benseal will be on hand in case of an emergency.

6. What field procedures will be utilized to determine if contamination exists?

Contamination will be evidenced by discoloration, odor and organic vapor emination as detected by a Foxboro Instruments organic vapor analyser (OVA)

7. What procedures will be used to determine whether samples will be sent for laboratory testing or archiving?

Samples will be screened for analysis or archiving based on the following criteria: 1) samples displaying obvious hydrocarbon contamination (worst case); 2) hydrocarbon contamination plus elevated OVA readings (worst case) 3) obviously clean (background).

8. What constituents will be monitored and tested? Total petroleum hydrocarbons (TPH (EPA method 8015); Benze, Toluene and Xylene (BTX) (EPA method 8020); Flashpoint (Pensky-Martens Closed Cup Method); Organic lead (EPA method 7421)

..ow will samples be tra[redacted]orted and preserved? Sample[redacted]ill be immediately stored in an ice chest and stored at 4°C until the contract laboratory accepts custody. Proper Chain of Custody will be maintained at all times.

10. What sampling method will be used?

Soil samples will be collected utilizing a modified California Drive sampler.

11. Are you proposing a variation from the methods and/or procedures presented in the Requirements for construction of Vadose and Ground Water Monitoring Wells (dated May 1986)? If yes, specify these variations.

No, monitoring well construction will be in accordance with the Department of Water Resources and County of San Diego regulations. If site specific field activities warrant a variance, one will be applied for at that time.

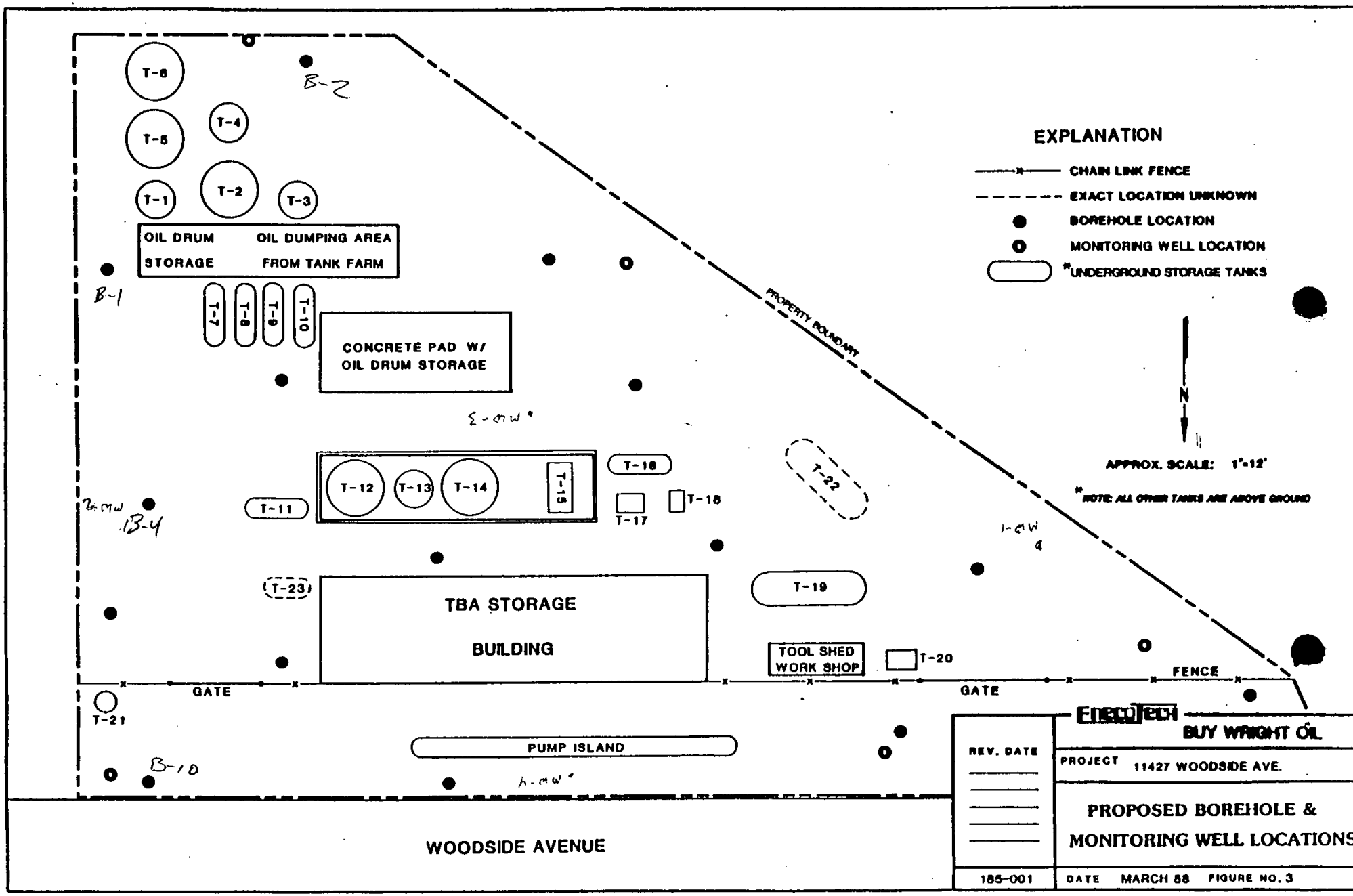
12. What procedures will be used to insure no contamination will be introduced by the drilling equipment?

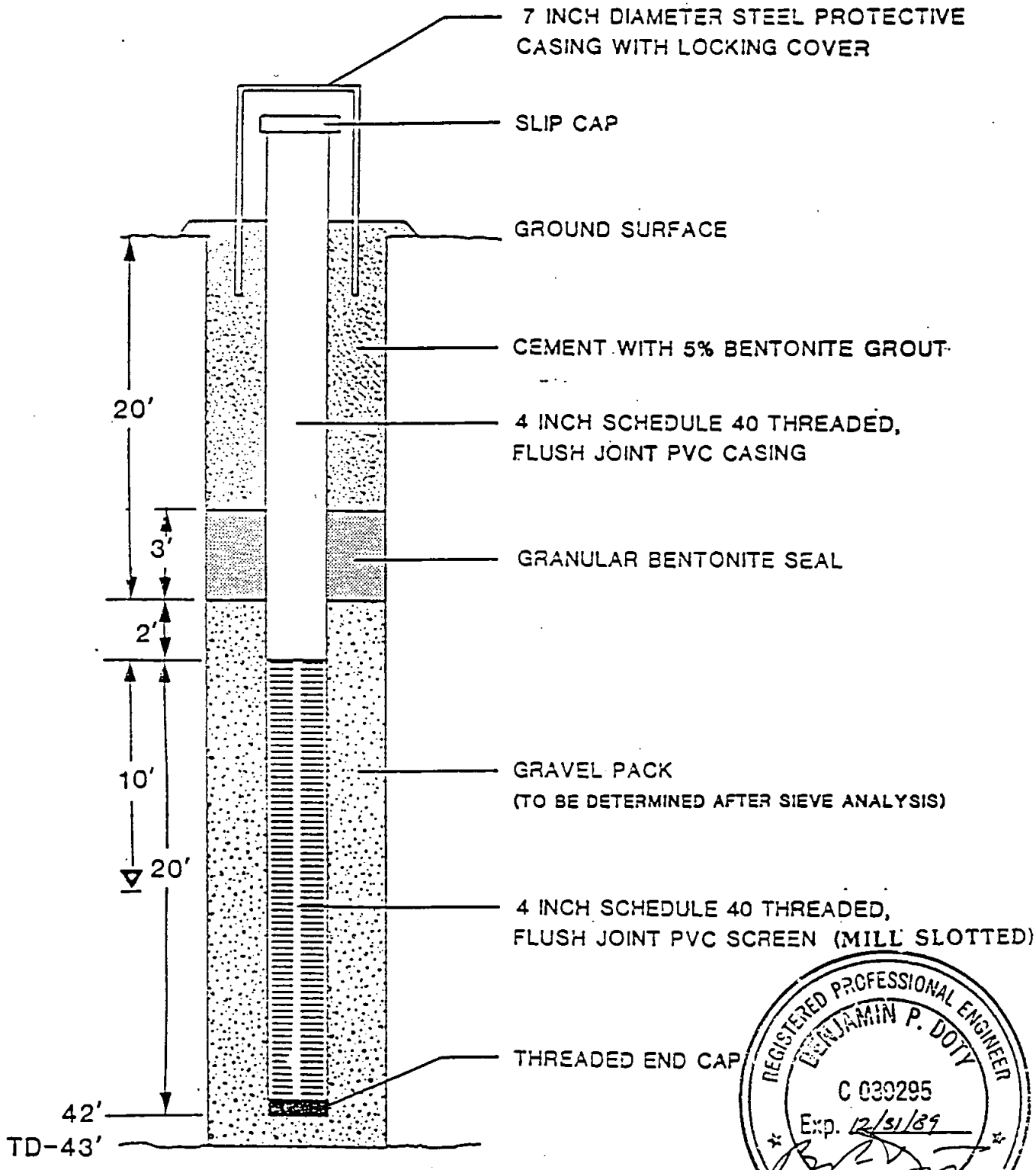
The drill rig will be inspected and steam cleaned prior to borehole advancement and periodically thereafter. All down hole equipment will be thoroughly steam cleaned subsequent to each borehole/monitoring well completion.

13. What methods will be used to clean the sampling equipment? Sampling equipment will be cleaned utilizing an Alkonox solution followed by a triple de-ionized water rinse.

14. What cleaning method will be used to clean casing and screen prior to installation?

All casing and screen will be inspected and subsequently scrubbed with an Alkonox solution, steam cleaned, and rinsed with potable water.


T-6
T-5
T-4
T-2
T-1
T-3
B-2
B-1
OIL DRUM STORAGE
OIL DUMPING AREA FROM TANK FARM
T-7
T-8
T-9
T-10
CONCRETE PAD W/ OIL DRUM STORAGE
PROPERTY BOUNDARY
2-MW
T-12
T-13
T-14
T-15
T-16
T-17
T-18
T-11
T-22
2-MW
B-4
1-MW
4
T-23
TBA STORAGE BUILDING
T-19
TOOL SHED WORK SHOP
T-20
FENCE
GATE
GATE
T-21
PUMP ISLAND
B-10
4-MW
WOODSIDE AVENUE
EXPLANATION
CHAIN LINK FENCE
EXACT LOCATION UNKNOWN
BOREHOLE LOCATION
MONITORING WELL LOCATION
*UNDERGROUND STORAGE TANKS
N
APPROX. SCALE: 1"=12'
* NOTE: ALL OTHER TANKS ARE ABOVE GROUND
EnecoTech
BUY WRIGHT OIL
REV. DATE
PROJECT 11427 WOODSIDE AVE.
PROPOSED BOREHOLE & MONITORING WELL LOCATIONS
185-001
DATE MARCH 88 FIGURE NO. 3



REGISTERED PROFESSIONAL ENGINEER
BENJAMIN P. DOTY
C 030295
Exp. 12/31/89
CIVIL
STATE OF CALIFORNIA

NOTE: STATIC WATER LEVEL IS BASED ON BACKGROUND INFORMATION

ENECOTECH Denver Colorado	BUY WRIGHT OIL	MONITORING WELL CONSTRUCTION SPECIFICATIONS
Project	11427 WOODSIDE AVE	
File No.: 185-001	Date: APRIL 1988	Figure No.: 4

APPENDIX B

STATE WATER WELL DRILLERS REPORT

CONFIDENTIAL
EnecoTech

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

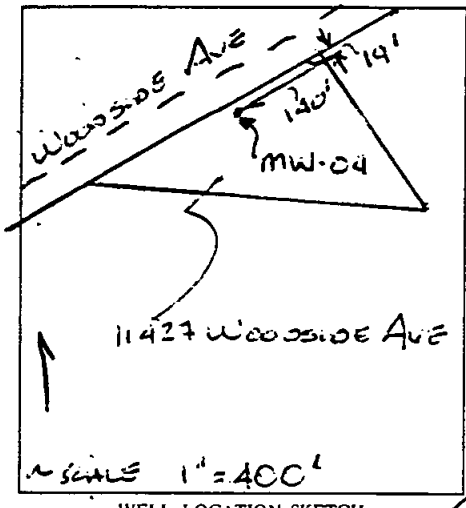
Do not fill in
No. 278993

Notice of Intent No. _____
Local Permit No. or Date 04-26-88

State Well No. _____
Other Well No. _____

(1) OWNER: Name BILL WRIGHT OIL
Address 6661 N. MAGNOLIA
City SANTEE, CA ZIP 92071

(2) LOCATION OF WELL (See instructions):
County SAN DIEGO Owner's Well Number MW-04
Well address if different from above 11427
Township 15S Range 1W Section N/A
Distance from cities, roads, railroads, fences, etc. APPROXIMATELY 140' FROM NE CORNER 90° TO SE POINTED 19'



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☑ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☑
(Describe) MONITORING

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☐ Air ☐
Other ☑ AUGER Bucket ☐

(6) GRAVEL PACK:
Yes ☑ No ☐ Size #3
Diameter of bore 12"
Packed from 20 to 44 ft.

(7) CASING INSTALLED:
Steel ☐ Plastic ☑ Concrete ☐

From ft.	To ft.	Dia. in.	Gage or Wall
+.25	22.0	4"	SCH40

(8) PERFORATIONS:
Type of perforation or size of screen

From ft.	To ft.	Slot size
22.0	44.0	020

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☑ No ☐ If yes, to depth 17.0' ft.
Were strata sealed against pollution? Yes ☑ No ☐ Interval 17.0-20.0 ft.
Method of sealing BENTONITE / BENTONITE GROUT

(10) WATER LEVELS:
Depth of first water, if known 26.5 ft.
Standing level after well completion 27.06 (11-3-5-25) ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☑ If yes, by whom? _____
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☑ No ☐ If yes, by whom? G.A. LABS
Was electric log made Yes ☐ No ☑ If yes, attach copy to this report

(12) WELL LOG: Total depth 44 ft. Completed depth 42 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	0.5	ASPHALT
0.5	5.0	SILTY SAND; BROWN, DRY TO MOIST, SILTY VERY FINE SAND
5.0	18.0	SAND; LIGHT BROWN, MOIST, FINE TO MEDIUM SAND WITH A TRACE COARSE SAND
18.0	22.5	SILTY SANDY CLAY; GRAY-BROWN, MOIST TO WET, SILTY SANDY CLAY
22.5	44.0	SAND; LIGHT BROWN, FINE TO MEDIUM SAND WITH A TRACE CLAY, TRACE SILT
44.0		TOTAL DEPTH

Work started 05-13 19 88 Completed 05-13 19 88

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Signed _____ (Well Driller)
NAME MARSHALL OILWELL G. MAXWELL (Person, firm, or corporation) (Typed or printed)
Address P.O. BOX 117
City ALPINE, CA ZIP 91901
License No. 29450 Date of this report 06-02-88

VOID
NOT FOR PUBLIC USE
WATER CODE SEC. 13752

DWR 188 (REV. 12-86) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM 86 96355

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION
			BH-07
0	X	B.G.	0-4' SILTY SAND; brown, moist, silty, very fine sand with a trace clay
5	X	B.G.	.0' SAND; slight brown; moist, fine to medium, sub-angular sand with a trace to some coarse to very coarse sand
10	X	20	
			@ 13.5' COLOR CHANGE TO GREY BROWN (vapor stain?); slight H C odor
15	X	100 +	
			@ 17' 1000 PPM (OVA) on cuttings
			@ 18-18.5' CLAY LENSE
20	X	100 +	
			@ 22-23' CLAY LENSE
			@ 23' GRADES TO A SILTY, FINE TO MEDIUM SAND
25			
			▽ = 29.0'
30	X	10 +	Total Depth = 30'

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
04/30/88

DATE COMPLETED
04/30/88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Solid Stem Auger

DRILL RIG
Ingersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

CONFIDENTIAL

EnecoTech
San Diego, California

BUY WRIGHT OIL

LITHOLOGIC LOG OF SOIL BORING

PROJECT: 11427 WOODSIDE
SAN TEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION BH-08
			0-0.5' CONCRETE
			0.5-3' SILTY SAND; Brown, moist, silty, very fine sand with a trace sand.
5	X	B.G.	3-17' SAND; Light brown, moist, very fine to fine sand with a trace silt
10	X	B.G.	
15			@17-22.0 SANDY CLAY; Brown, moist, dandy (very fine) clay with occassional scattered gravel to 1" diameter.
20	X	B.G.	22.0-30.0 SILTY SAND; Dark brown, moist to wet, very fine to fine silty sand.
			@23.0 HYDROCARBON ORDOR
25	X	650	
30	X	350	Total Depth = 30'
40			
45			

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
4-30-88

DATE COMPLETED
4-30-88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Solid Stem Auger

DRILL RIG
Incersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

CONFIDENTIAL

ENECOTECH
San Diego, California

BUY WRIGHT OIL

LITHOLOGIC LOG OF MONITORING WELL BORING

PROJECT 11427 WOODSIDE
SAN TEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION BH-09
0			0-7' SILTY SAND; brown, dry to moist, silty fine sand
5	X	B.G.	
			7-22' SAND; light brown, fine to medium, subangular sand with a trace coarse and very fine sand
10	X	B.G.	
15			17-18' Silty clay lense
20	X	B.G.	
			22'-30.0 SANDY SILT CLAY ; Brown, moist to wet, sandy, silty clay
25			
			@ 27' Increase in clay
30	X	B.G.	Total Depth = 30.0'

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
05/02/88

DATE COMPLETED
05/02/88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Solid Stem Auger

DRILL RIG
Incersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

CONFIDENTIAL

ENECOTECH
San Diego, California

BUY WRIGHT OIL

LITHOLOGIC LOG OF SOIL BORING

PROJECT 11427 WOODSIDE
SAN TEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION BH-10
0	X	B.G.	0-0.5' ASPHALT 0.5-18' SAND; light brown, moist very fine to fine sand with a trace silt
5	X	B.G.	
10			
15			
			18-30' SANDY CLAY; grey brown, moist to wet, silty sandy clay
20			
25			
30	X	B.G.	Total Depth = 30'

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
05/13/88

DATE COMPLETED
05/13/88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Solid Stem Auger

DRILL RIG
Ingersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

CONFIDENTIAL

ENECOTECH
San Diego, California

BUY WRIGHT OIL

LITHOLOGIC LOG OF SOIL BORING

PROJECT 11427 WOODSIDE
SAN TEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

DEPTH, FT.	SAMPLES	OVA READINGS	LITHOLOGIC DESCRIPTION — BH-11
0	X	B.G.	0-0.5' ASPHALT 0.5-3.5' SILTY SAND; brown, moist, silty, very fine sand with a trace clay
			3.5-30' SAND; light brown, very fine to fine sand
5	X	B.G.	
10			
15			@ 17' Grades to a fine to medium sand with a trace coarse sand
20			
25			
30	X	B.G.	Total Depth = 30'

PROJECT NAME
Buy Wright Oil

PROJECT NUMBER
185-001

GROUND SURFACE ELEVATION

DATE STARTED
05/13/88

DATE COMPLETED
05/13/88

FIELD ENGINEER
Rick Graff

DRILLERS
Morrison - G. Maxwell

DRILLING METHOD
Solid Stem Auger

DRILL RIG
Ingersoll-Rand TH-10

EXPLORATORY HOLE LOCATION

CONFIDENTIAL

EnecoTech
San Diego, California

BUY WRIGHT OIL
LITHOLOGIC LOG OF SOIL BORING

PROJECT 11427 WOODSIDE
SAN TEE, CALIFORNIA

FILE NO. 185-001 DATE JUNE, 1988 FIGURE NO.

APPENDIX D

CHAIN-OF-CUSTODY FORMS

ENECOTECH

CHAIN OF CUSTODY RECORD

000034

Suite 300, 243 East 19 Avenue, Denver, Colorado 80203

PROJ. NO.: 185-001

PROJECT NAME: BOYWRIGHT OIL

SAMPLERS: (Signature)

STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	BTEX + Modified BTX	REMARKS
00231	05-13-88	1650		X	BH-10 @ 5.0'	1	X	
00235	05-13-88	1720		X	BH-10 @ 30.0'	1	X X	
00236	05-13-88	1745		X	BH-11 @ 5.0'	1	X	
00237	05-13-88	1815		X	BH-11 @ 30.0'	1	X X	
00238	05-13-88	1330		X	~~BH~~ MW-04 @ ~~1330~~ 1.0	1	X	
00239	05-13-88	1340		X	MW-04 @ 5.0'	1	X X	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	5/16/88 3:41				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: RETURN ALL STAINLESS STEEL SLEEVES	

Split Samples: ☐ Accepted ☐ Declined

Signature

Distribution: Original Accompanies Shipment: First Copy to Coordinator Field Files: Second Copy to Representative of Inspected Facility

ENECOTECH

CHAIN OF CUSTODY RECORD

000033

Suite 300, 243 East 19 Avenue, Denver, Colorado 80203

PROJ. NO.	PROJECT NAME
185-001	BOW WRIGHT OIL 11427 WOODSIDE

SAMPLERS: (Signature)

STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	EC15	TX66	8020 (mod)	KX66	REMARKS
00220	04-28-88	1435		SPLIT SPOON	BH-01 @ 20.5'	1			X		
00221	04-29-88	0840	"	"	BH-02 @ 15.5'	1			X		
00222	04-29-88	1100	"	"	BH-03 @ 15.0'	1			X		
00223	04-29-88	1200		X	BH-03 @ 30.0'	1			X		
00224	04-29-88	1500		X	BH-04 @ 30.0'	1			X		
00225	04-29-88	1615		X	BH-05 @ 30.0'	1			X		
00226	04-30-88	1345		SPLIT SPOON	BH-06 @ 10.0'	1			X		
00227	04-30-88	1505	GRT	X	BH-06 @ 30.0'	1	X	NO TX	X	NO	
00228	04-30-88	0910		SPLIT SPOON	BH-07 @ 5.0'	1			X		
00229	04-30-88	0945	"	"	BH-07 @ 15.0'	1			X		
00230	04-30-88	1030	GT	X	BH-07 @ 30.0'	1	X	NO TX	X	NO	
00231	04-30-88	1200		SPLIT SPOON	BH-08 @ 20.0'	1			X		
00232	04-30-88	1300	"	X	BH-08 @ 30.0'	1	X	NO TX	X	NO	
00233	05-02-88	0815		X	BH-09 @ 30.0'	1	X	NO TX	X	NO	

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	05-03-88 1200				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks	

Distribution: Original Accompanies Shipment; First Copy to Coordinator Field Files; Second Copy to Representative of Inspected Facility

Split Samples: ☐ Accepted ☐ Declined _____ Signature

ENECOTECH

CHAIN OF CUSTODY RECORD

000035

Suite 300, 243 East 19 Avenue, Denver, Colorado 80203

PROJ. NO.	PROJECT NAME

SAMPLERS: *(Signature)*

STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CON-TAINERS						REMARKS

Relinquished by: *(Signature)*	Date/Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date/Time	Received by: *(Signature)*
	05-25-89 1830				
Relinquished by: *(Signature)*	Date/Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date/Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date/Time	Received for Laboratory by: *(Signature)*	Date/Time	Remarks	

Distribution: Original Accompanies Shipment; First Copy to Coordinator Field Files; Second Copy to Representative of Inspected Facility

Split Samples:
☐ Accepted ☐ Declined _____ Signature

QUALITY ASSURANCE LABORATORY
CHAIN OF CUSTODY

COMPANY: Wright Companies - Buy Wright O, L

PROJECT NAME/NUMBER: #58

Q.A. LOG NUMBER: 56 76-88 TO 5683

SAMPLE ID	DATE OF SAMPLE	SAMPLE LOCATION	CONT TYPE	SAMPLE TYPE	ANALYSIS REQUIRED	COMMENTS
#550-1S	5-25-88	550 gal Side Tank	Glass	Soil	TEH on All Samples	
#550-2B	" " "	" Bottom			BTX on "B" Samples	
#550-3B	" " "	7' below #2B			Only	
#880-1B	5-26-88	880 gal Tank				
#880-2	5-26-88	" "				
#1000-1B	5-26-88	2000 gal Tank				
#5K-B	5-25-88	5000 gal tank				
#5K-S	5-25-88	" "	↓	↓	↓	

88 MAY 31 P 1:35

SEND RESULTS TO ATTN: Dennis Frandsway

PHONE #: 619-562-3152

MAIL TO: 8685 N. Magnolia Ste B
Santee CA 92071

RELINQUISHED BY	DATE/TIME	RECEIVED BY
Dennis F. Frandsway	5/31/88 13:40	R Kretzman
RELINQUISHED BY	DATE/TIME	RECEIVED BY
RELINQUISHED BY	DATE/TIME	RECEIVED BY

APPENDIX E

QUALITY ASSURANCE LABORATORY
ANALYTICAL REPORTS

QUALITY ASSURANCE LABORATORY

EXPRESS GASOLINE - WRIGHT COMPANY
ATTN: DENNIS FRANSWAY
8681 NORTH MAGNOLIA
SANTEE, CA 92071

DATE OF REPORT	MAY 16, 1988
DATE RECEIVED	MAY 3, 1988
DATE COMPLETED	MAY 13, 1988
ANALYZED BY	RB EM
SAMPLE TYPE	14 SOIL
PROJECT NAME	BUY WRIGHT OIL 11427 WOODSIDE
PROJECT NUMBER	185-001

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	SAMPLE DATE	ANALYSIS:	TEH	BENZENE	TOLUENE	XYLENE
			METHOD:	MOD 8015,EXT 5020	MOD 8020,EXT 5020	MOD 8020,EXT 5020	MOD 8020,EXT 5020
			UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
4733-88	00220	04-28-88		<0.5			
4734-88	00221	04-29-88		<0.5			
4735-88	00222	04-29-88		<0.5			
4736-88	00223	04-29-88		46 *			
4737-88	00224	04-29-88		<0.5			
4738-88	00225	04-29-88		<0.5			
4739-88	00226	04-30-88		360 **			
4740-88	00227	04-30-88		280 **	<0.5	<0.5	<0.5
4741-88	00228	04-30-88		<0.5			
4742-88	00229	04-30-88		2.4 ***			
4743-88	00230	04-30-88		<0.5	<0.5	<0.5	<0.5
4744-88	00231	04-30-88		4.2 ***			
4745-88	00232	04-30-88		440 **	<0.5	<0.5	<0.5
4746-88	00233	05-02-88		<0.5	<0.5	<0.5	<0.5

* DIESEL CONTAMINATION

** GASOLINE CONTAMINATION

*** WEATHERED GASOLINE

TEH - TOTAL EXTRACTABLE HYDROCARBONS

DANA WALKER
LABORATORY DIRECTOR

Mailing Address:
P.O. Box 22567
San Diego, CA 92122

San Diego
6555 Nancy Ridge Dr., Suite 300
San Diego, CA 92121
(619) 566-1060
Fax: (619) 458-9093

Arizona
(602) 468-0691
Orange County
(714) 261-7242

QUALITY ASSURANCE LABORATORY

ATTN: DENNIS FRANSWAY
8685 N. MAGNOLIA, STE B
SANTEE, CA 92071

DATE OF REPORT	JUNE 10, 1988
DATE RECEIVED	MAY 31, 1988
DATE COMPLETED	JUNE 10, 1988
ANALYZED BY	EM LF LS
SAMPLE TYPE	8 SOIL
PROJECT NUMBER	#58

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	SAMPLE DATE	ANALYSIS: TEH METHOD: MOD 8015 UNITS: MG/KG	BENZENE MOD 8020 MG/KG	TOLUENE MOD 8020 MG/KG	XYLENE MOD 8020 MG/KG
5676-88	#550-1S	5/25/88	<0.5			
5677-88	#550-2B	5/25/88	1100	65	475	130
5678-88	#550-3B	5/25/88	59	<0.5	8	9
5679-88	#880-1BI	5/26/88	600	<0.5	3.5	40
5680-88	#880-2	5/26/88	110			
5681-88	#1000-1B	5/26/88	<0.5	<0.5	<0.5	<0.5
5682-88	#5K-B	5/25/88	110	<0.5	<0.5	2.0
5683-88	#5K-S	5/25/88	1300			

TEH - TOTAL EXTRACTABLE HYDROCARBONS

Dana Walker
DANA WALKER
LABORATORY DIRECTOR

Mailing Address:
P.O. Box 22567
San Diego, CA 92122

San Diego
6555 Nancy Ridge Dr., Suite 300
San Diego, CA 92121
(619) 566-1060

Arizona
6201 E. Calle Rosa
Scottsdale, AZ 85251
(602) 468-0691

QUALITY ASSURANCE LABORATORY

RECEIVED
JUN 2 0 1988
ENECOTECH

ATTN: DENNIS FRANSWAY
8685 N. MAGNOLIA.,STE B
SANTEE, CA 92071

DATE OF REPORT	JUNE 10, 1988
DATE RECEIVED	MAY 31, 1988
DATE OF SAMPLE	MAY 25, 1988
DATE COMPLETED	JUNE 9, 1988
ANALYZED BY	LF EM
SAMPLE TYPE	4 WATER
PROJECT NAME	BUY WRIGHT OIL
	11427 WOODSIDE AVE.
PROJECT NUMBER	185-001

ANALYSES RESULTS

LOG NUMBER	SAMPLE ID	ANALYSIS:	TEH	BENZENE	TOLUENE	XYLENE
		METHOD:	MOD 8015	MOD 8020	MOD 8020	MOD 8020
		UNITS:	UG/L	UG/L	UG/L	UG/L
5672-88	00240		0.6	0.7	<0.5	<0.5
5673-88	00241		<0.5	<0.5	<0.5	<0.5
5674-88	00242		6.3	<0.5	<0.5	<0.5
5675-88	00243		140	19	3.4	1.3

TEH - TOTAL EXTRACTABLE HYDROCARBONS

Dana Walker
DANA WALKER
LABORATORY DIRECTOR

Mailing Address:
P.O. Box 22567
San Diego, CA 92122

San Diego
6555 Nancy Ridge Dr., Suite 300
San Diego, CA 92121
(619) 566-1060
Fax: (619) 458-9093

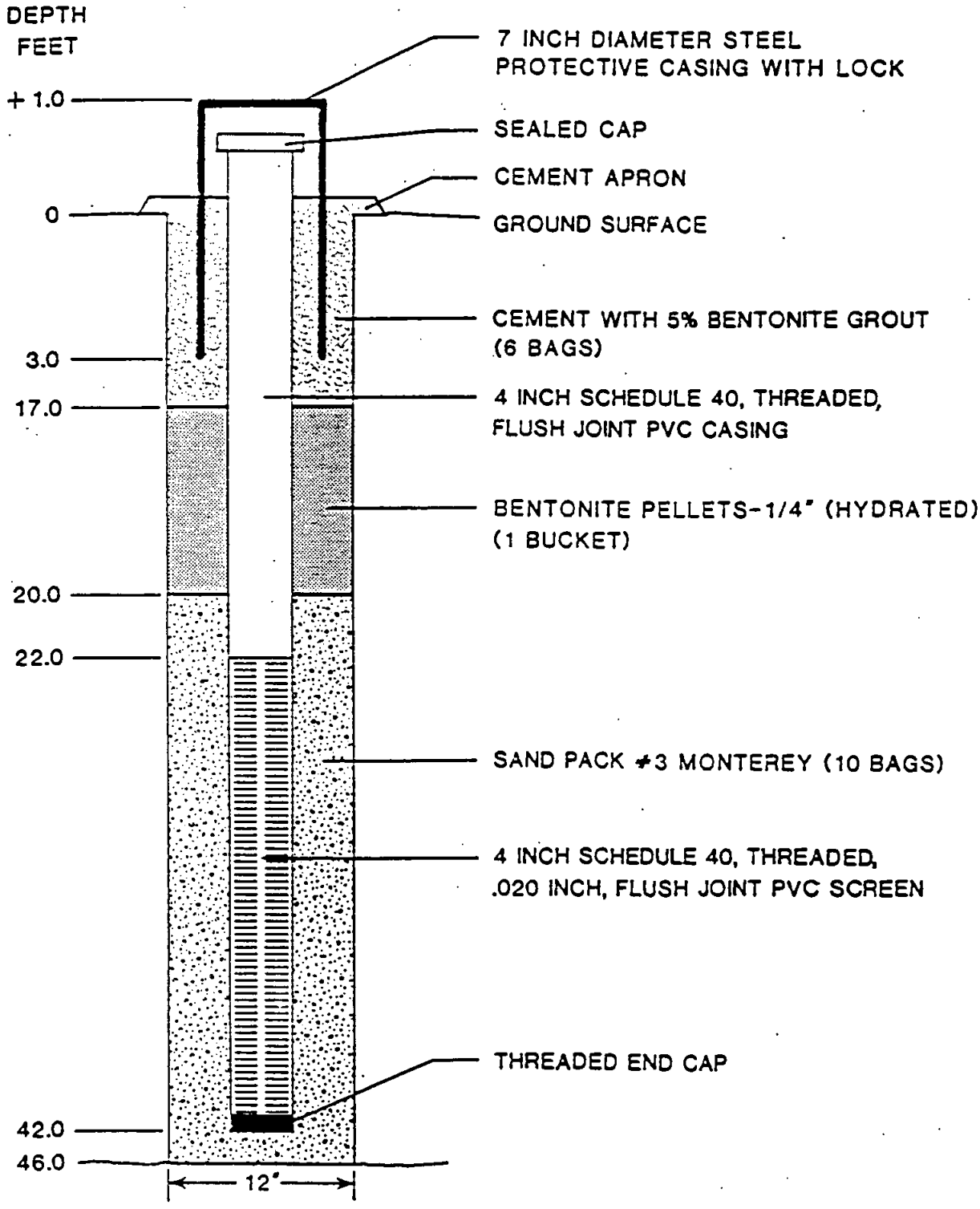
Arizona
(602) 468-0691
Orange County
(714) 261-7242

APPENDIX F

MONITORING WELL AS BUILTS

EnecoTech

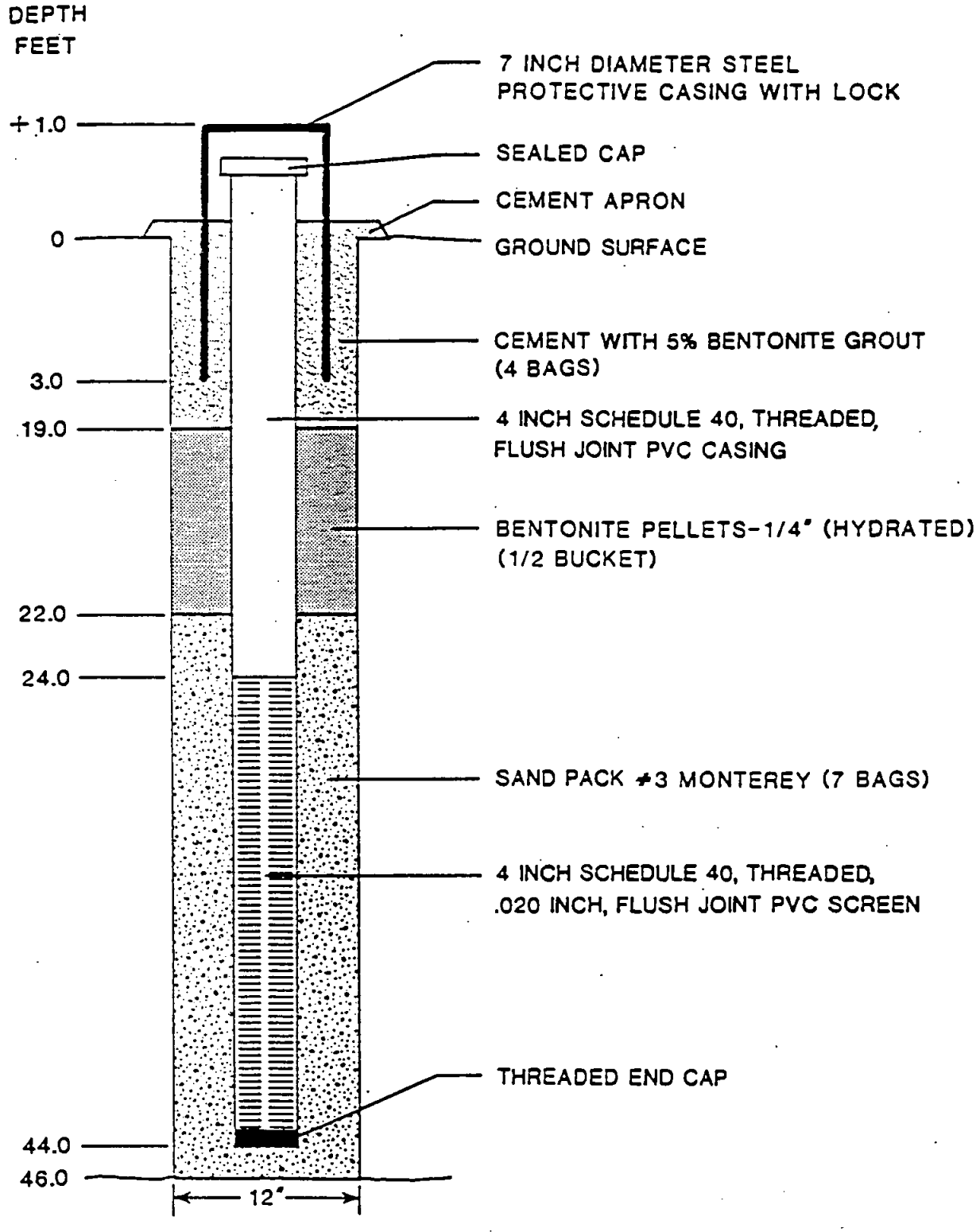
115514



NOTE: NOT TO SCALE

EnecoTech Denver Colorado	BUY WRIGHT OIL	WELL COMPLETION ASBUILT
Project	11427 WOODSIDE AVE.	MONITORING WELL # 1
File No.: 185-001	Date: JUNE, 1988	Figure No.:

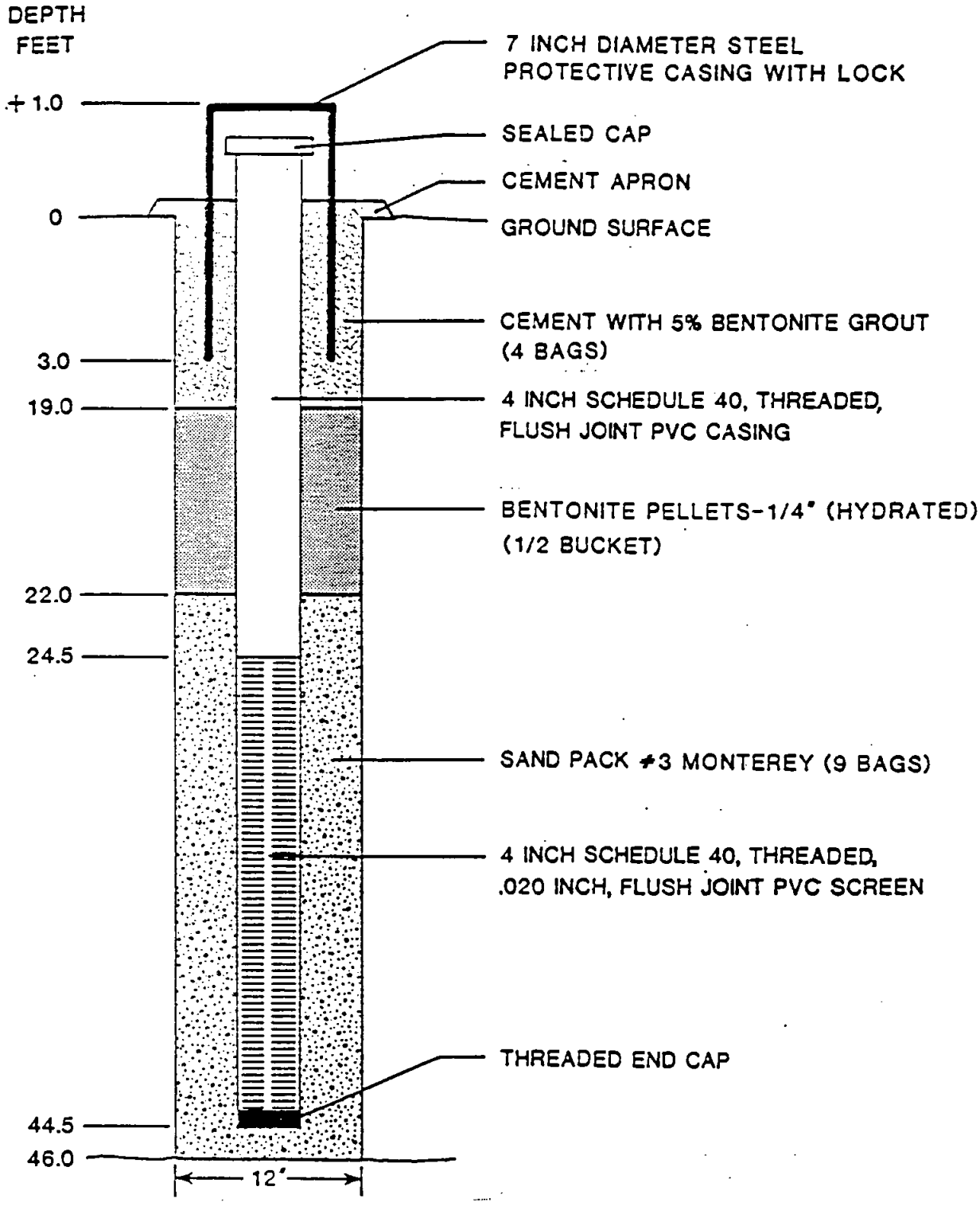
115514



NOTE: NOT TO SCALE

ENECOTECH Denver Colorado	BUY WRIGHT OIL	WELL COMPLETION ASBUILT
Project	11427 WOODSIDE AVE.	MONITORING WELL # 2
File No.: 185-001	Date: JUNE, 1988	Figure No.:

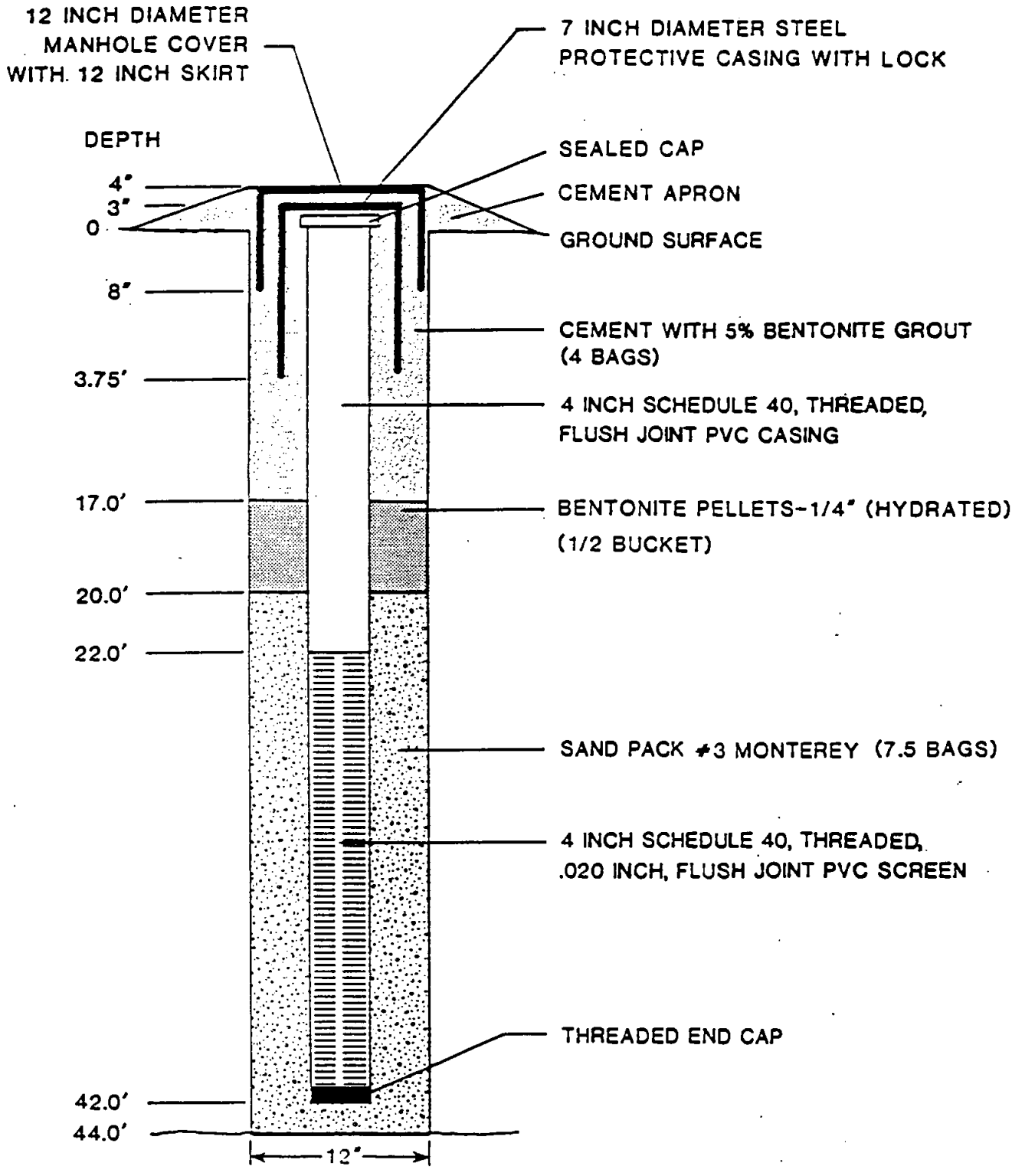
115514



NOTE: NOT TO SCALE

EnecoTech Denver Colorado	BUY WRIGHT OIL	WELL COMPLETION ASBUILT
Project	11427 WOODSIDE AVE.	MONITORING WELL # 3

115514



ENECOTECH
Denver Colorado

BUY WRIGHT OIL	WELL COMPLETION ASBUILT
Project 11427 WOODSIDE AVE.	MONITORING WELL # 4

File No.: 185-001 Date: JUNE, 1988 Figure No.:

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☑ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☑ NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFTY CODE.
SIGNED _____ DATE _____

REPORT DATE: 04/18/88 CASE #: T0948 ~~H20497~~ H19469

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Dennis F. Fransway
PHONE: (619) 562-3152
SIGNATURE: Dennis F. Fransway
REPRESENTING ☑ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER
COMPANY OR AGENCY NAME: (Buy Wright Oil Co): Wright Comp.
ADDRESS: 8685 N. Magnolia Suite H CITY Santee STATE CA ZIP 92071

RESPONSIBLE PARTY
NAME: SEE LETTER REC 8/31/88 ☑ UNKNOWN
CONTACT PERSON:
PHONE: ( )
ADDRESS: STREET CITY STATE ZIP

SITE LOCATION
FACILITY NAME (IF APPLICABLE): Buy Wright Oil
OPERATOR: Same
PHONE: (619) 448-5891
ADDRESS: 11427 Woodside Av. CITY Santee COUNTY San Diego ZIP 92071
CROSS STREET: N/A
TYPE OF AREA ☑ COMMERCIAL ☐ INDUSTRIAL ☐ RURAL ☐ RESIDENTIAL ☐ OTHER
TYPE OF BUSINESS ☑ RETAIL FUEL STATION ☐ FARM ☐ OTHER

IMPLEMENTING AGENCIES
LOCAL AGENCY / AGENCY NAME: City of San Diego - Health Dept. HMMU
CONTACT PERSON: David Felix
PHONE: (619) 236-2222
REGIONAL BOARD: S.C. Water Resources Cont Brd
PHONE: ( ) -

SUBSTANCES INVOLVED
(1) NAME: See Comments Below
QUANTITY LOST (GALLONS): ☑ UNKNOWN
(2) ☑ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 03/18/88
HOW DISCOVERED ☐ TANK TEST ☐ INVENTORY CONTROL ☐ TANK REMOVAL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☑ OTHER APCD Files
DATE DISCHARGE BEGAN: ☑ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☑ YES ☐ NO IF YES, DATE
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☐ REPLACE TANK ☐ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE ☑ OTHER Tanks Not In Use.

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☐ TANK LEAK ☑ UNKNOWN ☐ PIPING LEAK ☐ OTHER
TANKS ONLY/CAPACITY: 5K & 1K GAL. AGE _____ YRS ☑ UNKNOWN
MATERIAL: ☐ FIBERGLASS ☑ STEEL ☐ OTHER
CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ CORROSION ☑ UNKNOWN ☐ SPILL ☐ OTHER

CASE TYPE
CHECK ONE ONLY: ☑ UNDETERMINED ☐ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY: ☑ SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) ☐ CLEANUP IN PROGRESS ☐ SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) ☐ NO ACTION TAKEN ☐ POST CLEANUP MONITORING IN PROGRESS ☐ NO FUNDS AVAILABLE TO PROCEED ☐ EVALUATING CLEANUP ALTERNATIVES

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ CAP SITE (CD) ☐ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT)
☐ CONTAINMENT BARRIER (CB) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS)
☐ TREATMENT AT HOOKUP (HU) ☐ NO ACTION REQUIRED (NA) ☐ OTHER (OT)

COMMENTS
Two Abandoned Tanks Discovered & Verified on 3-18-88 Site Investigation beginning to test for soil &/or groundwater contamination. Property is being purchased.

HSC 05 (4/87)

INSTRUCTIONS

EMERGENCY
Indicate whether emergency response personnel and equipment were involved at any time. If so, a Hazardous Material Incident Report should be filed with the State Office of Emergency Services (OES) at 2800 Meadowview Road, Sacramento, CA 95832. Copies of the OES report form may be obtained at your local underground storage tank permitting agency. Indicate whether the OES report has been filed as of the date of this report.

LOCAL AGENCY ONLY
To avoid duplicate notification pursuant to Health and Safety Code Section 25180.7, a designated government employee should sign and date the form in this block. A signature here does not mean that the leak has been determined to pose a significant threat to human health or safety, only that notification procedures have been followed if required.

REPORTED BY
Enter your name, telephone number, and address. Indicate which party you represent and provide company or agency name.

RESPONSIBLE PARTY
Enter name, telephone number, contact person, and address of the party responsible for the leak. The responsible party would normally be the tank owner.

SITE LOCATION
Enter information regarding the tank facility and surrounding area. At a minimum, you must provide the facility name and full address.

IMPLEMENTING AGENCIES
Enter names of the local agency and Regional Water Quality Control Board involved.

SUBSTANCES INVOLVED
Enter the name and quantity lost of the hazardous substance involved. Room is provided for information on two substances if appropriate. If more than two substances leaked, list the two of most concern for cleanup.

DISCOVERY/ABATEMENT
Provide information regarding the discovery and abatement of the leak.

SOURCE/CAUSE
Indicate source(s) of leak. Provide details on tank age; capacity and material if known. Check box(es) indicating cause of leak.

CASE TYPE
Indicate the case type category for this leak. Check one box only. Case type is based on the most sensitive resource affected. For example, if both soil and ground water have been affected, case type will be "Ground Water". Indicate "Drinking Water" only if one or more municipal or domestic water wells have actually been affected. A "Ground Water" designation does not imply that the affected water cannot be, or is not, used for drinking water, but only that water wells have not yet been affected. It is understood that case type may change upon further investigation.

CURRENT STATUS
Indicate the category which best describes the current status of the case. Check one box only. The response should be relative to the case type. For example, if case type is "Ground Water", then "Current Status" should refer to the status of the ground water investigation or cleanup, as opposed to that of soil.

IMPORTANT: THE INFORMATION PROVIDED ON THIS FORM IS INTENDED FOR GENERAL STATISTICAL PURPOSES ONLY AND IS NOT TO BE CONSTRUED AS REPRESENTING THE OFFICIAL POSITION OF ANY GOVERNMENTAL AGENCY

REMEDIAL ACTION
Indicate which actions have been used to cleanup or remediate the leak. Descriptions of options follow:

Cap Site - install horizontal impermeable layer to reduce rainfall infiltration.
Containment Barrier - install vertical dike to block horizontal movement of contaminant.
Excavate and Dispose - remove contaminated soil and dispose in approved site.
Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming).
Remove Free Product - remove floating product from water table.
Pump and Treat Groundwater - generally employed to remove dissolved contaminants.
Enhanced Biodegradation -- use of any available technology to promote bacterial decomposition of contaminants.
Replace Supply - provide alternative water supply to affected parties.
Treatment at Hookup - install water treatment devices at each dwelling or other place of use.
No Action Required - incident is minor, requiring no remedial action.

COMMENTS - Use this space to elaborate on any aspects of the incident.
SIGNATURE - Sign the form in the space provided.
DISTRIBUTION

If the form is completed by the tank owner or his agent, retain the last copy and forward the remaining copies in tact to your local tank permitting agency for distribution.

1. Original - Local Tank Permitting Agency
2. State Water Resources Control Board, Division of Water Quality, Underground Tank Program, P. O. Box 100, Sacramento, CA 95801
3. Regional Water Quality Control Board
4. County Board of Supervisors or designee to receive Proposition 65 notifications.
5. Owner/responsible party.

Tetra Tech EM Inc.

591 Camino De La Reina, Suite 640 ◆ San Diego, CA 92108 ◆ (619) 718-9676 ◆ FAX (619) 718-9698

RECEIVED
Aug 18 1 11 PM '98
ENVIRONMENTAL
HEALTH SERVICES

August 12, 1998

Mr. Jim Wigington
El Capitan Oil Company
11427 Woodside Avenue
Santee, California 92071

Subject: **Groundwater Testing Results and Tank Excavation Observations- May 1998**
11427 Woodside Avenue, Santee, California, 92071
County of San Diego Unauthorized Release Case Number: H19469-001

Dear Mr. Wigington:

In accordance with the contract between Tetra Tech EM Inc. (Tetra Tech) and Mr. Jim Wigington (El Capitan Oil Company) entered into on April 15, 1998, Tetra Tech presents the results of the May 1998 sampling activities conducted at the El Capitan Oil Company Site, located at 11427 Woodside Avenue, Santee, California. Tetra Tech was tasked by El Capitan Oil Company to sample two existing groundwater monitoring wells (MW-01 and MW-02) at the project site. The sampled groundwater wells were pre-selected by Mr. David Felix from the Site Assessment and Mitigation (SA/M) Division, County of San Diego.

This letter summarizes the underground storage tank (UST) excavation and removal activities which took place on April 29 and 30, 1998 under the supervision of Ms. Pamela Villa Clay (SA/M) and the groundwater sampling activities conducted on May 18, 1998. The laboratory analytical results for this sampling event are also included in this letter report.

BACKGROUND

It is Tetra Tech's understanding that the subject property was purchased from the current owner (El Capitan Oil Company) by Buy Wright Oil (BWO) sometime in 1987 or 1988. A groundwater well containing free product was discovered in 1988 by BWO. As a result, BWO retained a consultant to perform an environmental assessment which identified petroleum hydrocarbon constituents in the subsurface soil and dissolved phase constituents in the groundwater. Four USTs were removed on May 25, 1988.

It is further understood that El Capitan Oil Company resumed operation of the property, following BWO's bankrupcy, in 1992. No further assessment activities have been documented at the site since the 1988 Site Assessment Report.

TANK EXCAVATION

On April 29, 1998 nine USTs were excavated and removed from the El Capitan Oil Company site under the supervision and guidance of Ms. Pamela Villa Clay of SA/M Division. The UST removal activities were conducted by Southbay Environmental Services (Steve Haggerty), and Mobile One was the on-site mobile analytical laboratory. Nine single-wall steel USTs were identified and removed from the area

contains recycled fiber and is recyclable

adjacent to the southwest portion of the main building (Figure 1) and in an area located near the eastern portion of the property. The USTs with former volumes and contents are as follows:

Tank 1:	7,500-gallon gasoline	Tank 6:	6,000-gallon diesel
Tank 2:	7,500-gallon diesel	Tank 7:	6,000-gallon red diesel
Tank 3:	550-gallon waste oil	Tank 8:	6,000-gallon red diesel
Tank 4:	2,500-gallon gasoline	Tank 9:	6,000-gallon diesel/kerosene
Tank 5:	550-gallon waste oil		

The tanks were removed one by one and visually inspected by the SA/M representative. The tanks were then loaded on to a tractor-trailer and hauled to a local tank recycler. Once all of the tanks were removed and taken off site, confirmation soil samples were collected from the bottom of each tank excavation (depths ranging from 6 to 17 feet below ground surface [bgs]) as the SA/M representative instructed. The analytical results from the soil samples analyzed are included in Enclosure B, but are not discussed further in this report. During the tank removals, hydrocarbon odors were detected from the excavation and spoils. Groundwater was not encountered in any of the tank excavations. The soil type beneath the tanks was predominantly clayey sand, however, decomposed granite was encountered in the eastern area UST excavation at approximately 16 to 17 feet bgs. The excavations were backfilled with the tank excavation spoils and clean backfill material and capped with concrete to match existing grade.

SCOPE OF SERVICES

The following activities were conducted at the El Capitan Oil Company site during groundwater sampling in May 1998:

- The depth to groundwater and total well depth was determined for wells MW-01 and MW-02 (Figure 1). No free product was observed during this time, however, hydrocarbon sheen was observed on the groundwater level indicator tape from MW-02.

- Wells MW-01 and MW-02 were purged by removing three well volumes (approximately 26 to 27 gallons) of water per well. The wastewater generated during well purging and sampling was placed into an on-site 150-gallon aboveground holding tank for proper disposal by the client.

- Groundwater samples were collected from wells MW-01 and MW-02 using pre-cleaned disposable bailers. The groundwater samples were placed into laboratory-prepared glassware, labeled, placed in an chilled cooler, and delivered to a state of California-certified analytical laboratory (Pacific Treatment Analytical Services, Inc.) following chain-of-custody procedures.

- The groundwater samples were submitted for analysis of total petroleum hydrocarbons (TPH) -gas and -diesel by the California Department of Health Services (DHS) TPH Method 8015; benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by U.S. Environmental Protection Agency (EPA) Method 8020; and naphthalene and polynuclear aromatic hydrocarbons (PAH) by EPA Method 8270. Analytical results are summarized in Table 1.

WELL PURGING AND SAMPLING ACTIVITIES

The depth to groundwater was measured using an electric Solinst water level probe. The probe was lowered into each well until the instrument indicator registered contact with the groundwater surface. The tape measurement corresponding to a mark on the well casing was then recorded.

Tetra Tech purged approximately three well casing volumes (26 to 27 gallons per well) from each well using pre-cleaned 2-liter disposable plastic bailers. All down-well equipment (groundwater level indicator tape) was cleaned before and between use in each well using an alconox wash, a rinse with regular tap water, and a final rinse with deionized water. This cleaning procedure was followed to prevent cross contamination of the wells.

The wells were allowed to recharge fully prior to the collection of water samples. Minimal drawdown was observed. All groundwater samples were collected from the wells the same day and the water levels were rechecked to ensure that 95 percent of the static groundwater level recharge in both wells occurred.

Groundwater samples from MW-01 and MW-02 were collected by lowering a disposable bailer several inches below the groundwater surface and withdrawing the bailer. The groundwater samples were contained in the appropriate laboratory glassware for analysis. All glassware was equipped with Teflon septums. After each container was filled, it was capped, labeled, and placed in a cooler with ice for transport to the analytical laboratory for testing.

Tetra Tech initiated chain-of-custody documentation in the field for the groundwater samples. The samples remained in the custody of Tetra Tech until they were relinquished to the analytical laboratory.

LABORATORY TEST RESULTS

A review of the test results indicates that the groundwater sample collected from MW-01 contained concentrations of TPH quantified as gasoline at 704 µg/L (micrograms per Liter); benzene at 326 µg/L; toluene at 89.5 µg/L; and naphthalene at 8.6 µg/L (Figure 1). Laboratory results indicate that MW-02 had concentrations of TPH quantified as gasoline at 115 µg/L; benzene at 98.5 µg/L; MTBE at 226 µg/L; naphthalene at 25.1 µg/L; and fluorene at 2.2 µg/L (Figure 1). All other analytical constituents were not detected. The groundwater analytical results are presented in Table 1.

SUMMARY/RECOMMENDATIONS

The laboratory data indicate that TPH, quantified as gasoline, is present in both MW-01 and MW-02. Benzene was detected in both wells, however, MTBE was only detected in MW-02. Naphthalene was detected in both wells and a trace concentration of fluorene was detected in MW-02. Based on the results of the groundwater sample analytical data; the removal of tanks not conforming with 1998 upgrade standards; and the past, current, and anticipated future site usage as a bulk fuel distribution facility, it is recommended that an additional round of groundwater monitoring be performed at the site.

If there are any questions concerning this submittal, please call me at (619) 718-9676.

Sincerely,

Peter M. Stang
RG 5219

Enclosures

TABLE 1
GROUNDWATER ANALYSIS RESULTS
EL CAPITAN OIL COMPANY, SANTEE, CALIFORNIA

Well	TPH-g (µg/L)	TPH-d (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	PAHs (µg/L)	Depth to Groundwater (ft below TOC)
MW-01	704	<500	326	89.5	<50	<100	<50	8.6	<2	28.10
MW-02	115	<500	98.5	<12.5	<12.5	<25	226	25.1	fluorene - 2.2	29.22

Notes:

<	Less than (non-detect)	µg/L	Micrograms per liter
TPH-g	Total petroleum hydrocarbons as gasoline	ft	Feet
TPH-d	Total petroleum hydrocarbons as diesel	TOC	Top of casing
PAHs	Polynuclear aromatic hydrocarbons		

Analysis Method:

TPH-gas/diesel	California Department of Health Services
Naphthalene/PAHs:	EPA 8270
MTBE/BTEX:	EPA 8020

ENCLOSURE A

LABORATORY ANALYTICAL RESULTS REPORT

Pacific Treatment
Analytical Services, Inc.

4340 Viewridge Avenue, Suite A • San Diego, CA 92123
(619) 560-7717 • Fax (619) 560-7763
Analytical Chemistry Laboratory

May 27, 1998

Tetra Tech EM, Inc.
Attn: Greg Alyanakian
591 Camino De La Reina, Ste. 640
San Diego, California 92108

Project Name/No.: El Capitan Oil
Laboratory Log No.: 1031-98
Date Received: 05/19/98
Sample Matrix: Two water samples
PO No.: None

Please find the following enclosures for the above referenced project identified:

1) Analytical Report
2) QA/QC Report
3) Chain of Custody Form

.....Certificate of Analysis.....

Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. Date of extraction, date of analysis, detection limits and dilution factor are reported for each compound analyzed. All samples were analyzed within the method required holding time from sample collection.

A minimum of 90% of the data for each analytical method is associated with acceptable quality control criteria. Determinations of completion were made by assessing the following QA/QC functions, as applicable to methodology:

- Surrogate Percent Recovery,
  Laboratory Control Sample (LCS) percent recoveries for all analyses,
- Matrix Spike Recovery/Matrix Spike Duplicate Recovery (MSR & MSDR) and
  Relative Percent Difference (RPD from MSR & MSDR).

I certify that this data report is in compliance both technically and for completeness. Release of the data contained in this hardcopy data report has been authorized by the following signature.

Janis Columbo
Vice President/Laboratory Director

ANALYSIS RESULTS - TPH BY DOHS MODIFIED EPA 8015
TOTAL PETROLEUM HYDROCARBONS

CLIENT: TETRA TECH EM, INC.
PROJECT NAME/No.: EL CAPITAN OIL

DATE SAMPLED: 05/18/98
DATE RECEIVED: 05/19/98
DATE EXTRACTED: 05/19/98*
DATE ANALYZED: 05/20-21/98
MATRIX: WATER

PTAS LOG #:	SAMPLE ID:	TPH-GASOLINE			TPH-DIESEL		
		RL	DF	RESULTS PPB (UG/L)	RL	DF	RESULTS PPB (UG/L)
METHOD BLANK	———	20	1	ND	500	1	ND
1031-98-1	MW-01	100	5	704	500	1	ND
1031-98-2	MW-02	20	1	115	500	1	ND

CARBON RANGES: GASOLINE C6-C12; DIESEL C10-C30
RL = REPORTING LIMIT
DF = DILUTION FACTOR
ND = NON DETECT ABOVE INDICATED REPORTING LIMIT.
REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

* NOTE: APPLIES TO TPH-DIESEL ONLY. TPH-GASOLINE WAS PERFORMED BY PURGE AND TRAP.

Pacific Treatment Analytical Services, Inc. 4340 Viewridge Ave., Suite A • San Diego, CA 92123 (619) 560-7717 FAX (619) 560-7763

ANALYSIS RESULTS - EPA 8020
AROMATIC VOLATILE ORGANIC COMPOUNDS

CLIENT: TETRA TECH EM, INC.

PROJECT NAME/No.: EL CAPITAN OIL
PTAS LOG #: METHOD BLANK
SAMPLE ID: N/A
DILUTION FACTOR: 1

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE ANALYZED: 05/22/98
MATRIX: WATER
SAMPLE VOL./WT.: 5 ML

ANALYTE	REPORTING LIMIT PPB (UG/L)	RESULTS PPB (UG/L)
MTBE	0.5	ND
BENZENE	0.5	ND
TOLUENE	0.5	ND
ETHYLBENZENE	0.5	ND
XYLENES(TOTAL)	1.0	ND

MASS SPEC. CONFIRMATION PERFORMED ON ALL DETECTED ANALYTES.

ND = NON DETECT AT OR ABOVE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE SPIKE DATA	ACCEPTABLE CRITERIA	% RECOVERY
4-CHLOROTOLUENE	56-140	94

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ANALYSIS RESULTS - EPA 8020
AROMATIC VOLATILE ORGANIC COMPOUNDS

CLIENT: TETRA TECH EM, INC.

PROJECT NAME/No.: EL CAPITAN OIL
PTAS LOG #: 1031-98-1
SAMPLE ID: MW-01
DILUTION FACTOR: 100

DATE SAMPLED: 05/18/98
DATE RECEIVED: 05/19/98
DATE ANALYZED: 05/22/98
MATRIX: WATER
SAMPLE VOL./WT.: 0.05 ML

ANALYTE	REPORTING LIMIT PPB (UG/L)	RESULTS PPB (UG/L)
MTBE	50.0	ND
BENZENE	**50.0**	**326**
TOLUENE	**50.0**	**89.5**
ETHYLBENZENE	50.0	ND
XYLENES(TOTAL)	100.0	ND

MASS SPEC. CONFIRMATION PERFORMED ON ALL DETECTED ANALYTES.

ND = NON DETECT AT OR ABOVE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE SPIKE DATA	ACCEPTABLE CRITERIA	% RECOVERY
4-CHLOROTOLUENE	56-140	93

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ANALYSIS RESULTS - EPA 8020
AROMATIC VOLATILE ORGANIC COMPOUNDS

CLIENT: TETRA TECH EM, INC.

PROJECT NAME/No.: EL CAPITAN OIL
PTAS LOG #: 1031-98-2
SAMPLE ID: MW-02
DILUTION FACTOR: 25

DATE SAMPLED: 05/18/98
DATE RECEIVED: 05/19/98
DATE ANALYZED: 05/22/98
MATRIX: WATER
SAMPLE VOL./WT.: 0.2 ML

ANALYTE	REPORTING LIMIT PPB (UG/L)	RESULTS PPB (UG/L)
MTBE	**12.5**	**226**
BENZENE	**12.5**	**98.5**
TOLUENE	12.5	ND
ETHYLBENZENE	12.5	ND
XYLENES(TOTAL)	25.0	ND

MASS SPEC. CONFIRMATION PERFORMED ON ALL DETECTED ANALYTES.

ND = NON DETECT AT OR ABOVE INDICATED REPORTING LIMIT

REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE SPIKE DATA	ACCEPTABLE CRITERIA	% RECOVERY
4-CHLOROTOLUENE	56-140	96

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ANALYSIS RESULTS - EPA 8270
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)

CLIENT: TETRA TECH EM, INC.

PROJECT NAME/No.: EL CAPITAN OIL
PTAS LOG #: METHOD BLANK
SAMPLE ID: N/A
DILUTION FACTOR: 1

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE EXTRACTED: 05/20/98
DATE ANALYZED: 05/22/98
MATRIX: WATER
SAMPLE VOL./WT.: 1000 ML

ANALYTE	DETECTION LIMIT PPB (UG/L)	RESULTS PPB (UG/L)
NAPHTHALENE	2	ND
ACENAPHTHYLENE	2	ND
ACENAPHTHENE	2	ND
FLUORENE	2	ND
PHENANTHRENE	2	ND
ANTHRACENE	2	ND
FLUORANTHENE	2	ND
PYRENE	2	ND
BENZO(A)ANTHRACENE	2	ND
CHRYSENE	2	ND
BENZO(B)FLUORANTHENE	2	ND
BENZO(K)FLUORANTHENE	2	ND
BENZO(A)PYRENE	2	ND
DIBENZO(A,H)ANTHRACENE	2	ND
INDENO(1,2,3-CD)PYRENE	2	ND
BENZO(GHI)PERYLENE	2	ND

ND = NON DETECT ABOVE INDICATED DETECTION LIMIT.
DETECTION LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE SPIKE DATA	ACCEPTABLE RANGE	% RECOVERY
NITROBENZENE-d5	35-114	85
2-FLUOROBIPHENYL	43-116	78
4-TERPHENYL-d14	33-141	108

ANALYSIS RESULTS - EPA 8270
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)

CLIENT: TETRA TECH EM, INC.

PROJECT NAME/No.: EL CAPITAN OIL
PTAS LOG #: 1031-98-1
SAMPLE ID: MW-01
DILUTION FACTOR: 1

DATE SAMPLED: 05/18/98
DATE RECEIVED: 05/19/98
DATE EXTRACTED: 05/20/98
DATE ANALYZED: 05/22/98
MATRIX: WATER
SAMPLE VOL./WT.: 1000 ML

ANALYTE	DETECTION LIMIT PPB (UG/L)	RESULTS PPB (UG/L)
NAPHTHALENE	2	**8.6**
ACENAPHTHYLENE	2	ND
ACENAPHTHENE	2	ND
FLUORENE	2	ND
PHENANTHRENE	2	ND
ANTHRACENE	2	ND
FLUORANTHENE	2	ND
PYRENE	2	ND
BENZO(A)ANTHRACENE	2	ND
CHRYSENE	2	ND
BENZO(B)FLUORANTHENE	2	ND
BENZO(K)FLUORANTHENE	2	ND
BENZO(A)PYRENE	2	ND
DIBENZO(A,H)ANTHRACENE	2	ND
INDENO(1,2,3-CD)PYRENE	2	ND
BENZO(GHI)PERYLENE	2	ND

ND = NON DETECT ABOVE INDICATED DETECTION LIMIT.
DETECTION LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE SPIKE DATA	ACCEPTABLE RANGE	% RECOVERY
NITROBENZENE-d5	35-114	85
2-FLUOROBIPHENYL	43-116	80
4-TERPHENYL-d14	33-141	98

ANALYSIS RESULTS - EPA 8270
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)

CLIENT: TETRA TECH EM, INC.

PROJECT NAME/No.: EL CAPITAN OIL
PTAS LOG #: 1031-98-2
SAMPLE ID: MW-02
DILUTION FACTOR: 1

DATE SAMPLED: 05/18/98
DATE RECEIVED: 05/19/98
DATE EXTRACTED: 05/20/98
DATE ANALYZED: 05/22/98
MATRIX: WATER
SAMPLE VOL./WT.: 1000 ML

ANALYTE	DETECTION LIMIT PPB (UG/L)	RESULTS PPB (UG/L)
NAPHTHALENE	2	**25.1**
ACENAPHTHYLENE	2	ND
ACENAPHTHENE	2	ND
FLUORENE	2	**2.2**
PHENANTHRENE	2	ND
ANTHRACENE	2	ND
FLUORANTHENE	2	ND
PYRENE	2	ND
BENZO(A)ANTHRACENE	2	ND
CHRYSENE	2	ND
BENZO(B)FLUORANTHENE	2	ND
BENZO(K)FLUORANTHENE	2	ND
BENZO(A)PYRENE	2	ND
DIBENZO(A,H)ANTHRACENE	2	ND
INDENO(1,2,3-CD)PYRENE	2	ND
BENZO(GHI)PERYLENE	2	ND

ND = NON DETECT ABOVE INDICATED DETECTION LIMIT.
DETECTION LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE SPIKE DATA	ACCEPTABLE RANGE	% RECOVERY
NITROBENZENE-d5	35-114	112
2-FLUOROBIPHENYL	43-116	86
4-TERPHENYL-d14	33-141	98

QA/QC REPORT						
METHOD:	TPH-DOHS MODIFIED EPA 8015-WATER				ACCEPTABLE LCS,M/MSD CRITERIA	ACCEPTABLE RPD CRITERIA
DATE ANALYZED:	05/21/98					
QA/QC SAMPLE:	PTAS 0989-98-1					
SPIKED ANALYTE	LCS % R	MS % R	MSD % R	RPD	%	%
GASOLINE	83	94	86	9	75-125	<30

QA/QC REPORT					
METHOD:	TPH-DOHS MODIFIED EPA 8015-WATER			ACCEPTABLE LCS/LCSD CRITERIA	ACCEPTABLE RPD CRITERIA
DATE ANALYZED:	05/20/98				
QA/QC SAMPLE:	PTAS 1031-98 BLANK				
SPIKED ANALYTE	LCS % R	LCSD % R	RPD	%	%
DIESEL	111	99	11	75-125	<30

LCS % R = LABORATORY CONTROL SAMPLE PERCENT RECOVERY

LCSD % R = LABORATORY CONTROL SAMPLE DUPLICATE PERCENT RECOVERY

MS % R = MATRIX SPIKE PERCENT RECOVERY

MSD % R = MATRIX SPIKE DUPLICATE PERCENT RECOVERY

RPD = RELATIVE PERCENT DIFFERENCE

QA/QC REPORT

METHOD:	EPA 8020-WATER				ACCEPTABLE LCS/LCSD CRITERIA	ACCEPTABLE MS/MSD CRITERIA	ACCEPTABLE RPD CRITERIA
DATE ANALYZED:	05/22/98						
QA/QC SAMPLE:	PTAS 1017-98-1						
SPIKED ANALYTE	LCS % R	MS % R	MSD % R	RPD	%	%	%
BENZENE	96	120	120	0	70-122	61-126	<30
TOLUENE	92	119	119	0	68-121	57-126	<30
CHLOROBENZENE	89	112	109	3	65-120	56-124	<30
ETHYLBENZENE	85	119	118	1	69-122	61-124	<30
XYLENES	90	123	118	4	69-122	58-124	<30

LCS % R = LABORATORY CONTROL SAMPLE PERCENT RECOVERY

LCSD % R = LABORATORY CONTROL DUPLICATE SAMPLE PERCENT RECOVERY

MS % R = MATRIX SPIKE PERCENT RECOVERY

MSD % R = MATRIX SPIKE DUPLICATE PERCENT RECOVERY

RPD = RELATIVE PERCENT DIFFERENCE

Pacific Treatment Analytical Services, Inc. 4340 Viewridge Ave., Suite A • San Diego, CA 92123 (619) 560-7717 FAX (619) 560-7763

QA/QC REPORT

METHOD: EPA 8270-WATER
DATE ANALYZED: 05/22/98
QA/QC SAMPLE: PTAS 1031-98 BLANK

SPIKED ANALYTE	LCS % R	LCSD % R	RPD	ACCEPTABLE LCS/LCSD CRITERIA %	ACCEPTABLE RPD CRITERIA %
ACENAPHTHENE	91	97	6	56-127	<30
DI-N-BUTYL PHTHALATE	110	110	0	30-128	<30
1,4-DICHLOROBENZENE	80	92	14	35-126	<30
2,4-DINITROTOLUENE	92	96	4	45-142	<30
N-NITROSO-DI-N-PROPYLAMINE	100	107	7	28-144	<30
PYRENE	112	101	10	30-141	<30
1,2,4-TRICHLOROBENZENE	84	95	12	36-126	<30
4-CHLORO-3-METHYLPHENOL	100	101	1	41-138	<30
2-CHLOROPHENOL	79	86	8	39-121	<30
4-NITROPHENOL	100	107	7	23-157	<30
PENTACHLOROPHENOL	106	109	3	13-149	<30
PHENOL	77	83	8	29-129	<30

LCS % R = LABORATORY CONTROL SAMPLE PERCENT RECOVERY
LCSD % R = LABORATORY CONTROL SAMPLE DUPLICATE PERCENT RECOVERY
RPD = RELATIVE PERCENT DIFFERENCE
D = DETECTION LIMIT

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Pacific Treatment Analytical Services, Inc.

CHAIN-OF-CUSTODY RECORD

4340 Viewridge Avenue, Suite A San Diego, CA 92123 Phone (619) 560-7717 Fax (619) 560-7763

1031-98 **PTAS LOG #**

PTAS DATE/TIME STAMP 19 AUG 98 8:43

Client: TETRA TECH EM INC.

Address: 591 CAMINO DE LA REINA, Suite 640
SAN DIEGO, CA 92108

Attn: GREG ALYANAKIAN Phone: 619 718 9676

Sampled by: G. ALYANAKIAN Fax: 619 718 9698

Billing Address: SAME AS ABOVE

Project: EL CAPITAN OIL PO #:

REQUESTED ANALYSIS

| Client Sample ID | Sample Date | Sample Time | Sample Matrix | Container(s) # | Container(s) Type* | PTAS ID # | 418.1 (TRPH) | TPH (DHS) Gas ✓ Diesel ✓ | 602 / 8020 BTXE ✓ MTBE ✓ | 601 / 8010 (Purgeable Halocarbons) | 608 / 8080 PCBs Pesticides | 624 / 8240 / 8260 (Volatile Organics) | 625 / 8270 (Semi Volatile Organics) | TTLC Metals (CAC Title 22) | STLC Metals (CAC Title 22) | TCLP (RCRA) Metals Organics | Cr Cu Pb Ni Ag Zn | pH EC TSS O&G | NAPTHALENE PAH | 8270 | | |

AREA PERCENT REPORT

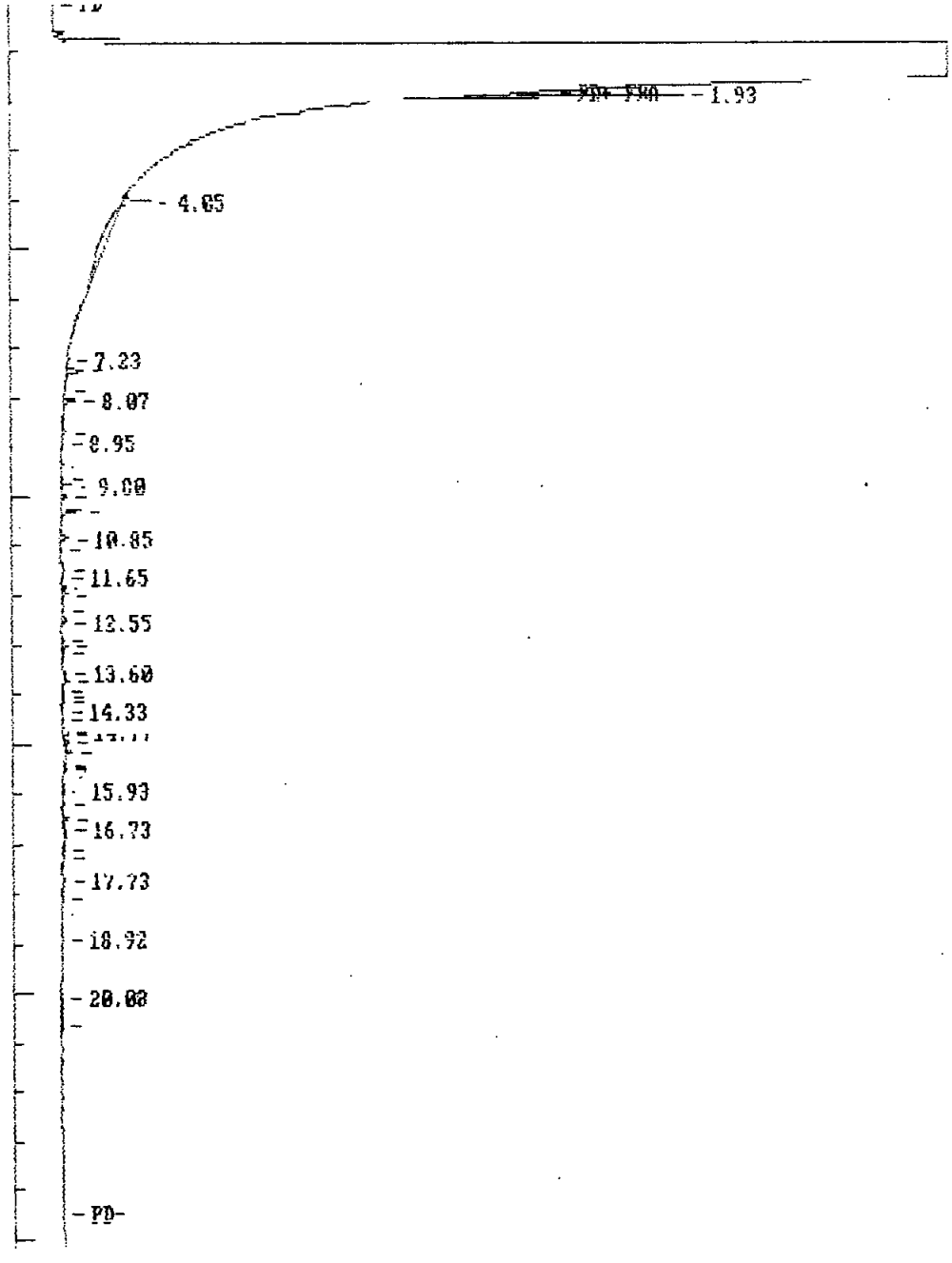
********** 05-22-1998 09:15:43 Version 5.1 **********
* Sample Name: 1031-1A Data File: E:\052035 *
* Date: 05-21-1998 16:00:01 Method: C:TPHNEW *
* Interface: 5 Cycle#: 35 Operator CK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 1 Threshold: .01 Area Threshold: 50 *
****
Starting Delay: 0.00 Run Time: 29.50

Pk No.	Ret Time	Peak Area	Area %	B t.	Peak Ht.	Normalized %	Area/ Height
1	1.933	136222	30.2900	1	54767	100.000	2.5
2	4.050	71622	15.9257	1	7564	52.578	9.5
3	7.233	1670	0.3713	1	372	1.226	4.5
4	7.467	24567	5.4626	1	4642	18.034	5.3
5	7.850	1434	0.3193	1	326	1.054	4.4
6	8.067	14549	3.6798	1	3250	12.149	5.1
7	8.700	4679	1.0404	1	1112	3.435	4.2
8	8.950	3077	0.6841	1	453	2.258	6.8
10	9.383	3348	0.7443	1	647	2.457	5.0
12	9.667	2247	0.4996	1	581	1.650	3.9
13	9.800	11390	2.5327	1	2782	8.361	4.1
14	10.017	7518	1.6716	1	1779	5.519	4.2
15	10.300	24883	5.5328	1	5441	18.266	4.6
17	10.850	9645	2.1446	1	2099	7.080	4.6
18	11.083	1335	0.2968	1	222	0.980	6.0
20	11.500	3548	0.7889	1	769	2.605	4.6
21	11.650	1511	0.3360	1	411	1.109	3.7
22	11.833	5274	1.1727	1	1219	3.872	4.4
23	11.983	6421	1.4278	1	1390	4.714	4.6
25	12.300	1321	0.2937	1	363	0.970	3.6
26	12.550	9157	2.0361	1	1410	6.722	6.5
27	12.667	1372	0.3051	1	432	1.007	3.2
28	12.917	4082	0.9076	1	579	2.996	7.0
29	13.050	6444	1.4328	1	1551	4.730	4.2
30	13.200	2308	0.5131	1	272	1.694	8.5
32	13.600	4670	1.0384	1	864	3.428	5.4
33	13.767	5678	1.2624	1	1516	4.168	3.7
34	13.967	1182	0.2628	1	336	0.868	3.5
35	14.050	1572	0.3495	1	520	1.154	3.0
36	14.167	2748	0.6110	1	753	2.017	3.6
37	14.333	1497	0.3329	1	356	1.099	4.2

40	14.983	7105	1.5797	1	1135	5.215	6.3
41	15.183	9264	2.0598	1	1918	4.809	4.8
42	15.417	1244	0.2766	1	488	0.913	2.5
43	15.500	3917	0.8709	1	691	2.875	5.7
44	15.933	5616	1.2487	1	418	4.122	13.5
45	16.200	2487	0.5529	1	665	1.825	3.7
47	16.500	7486	1.6650	1	1568	5.497	4.8
48	16.733	6634	1.4751	1	661	4.870	10.0
50	17.117	1370	0.3046	1	318	1.006	4.3
51	17.283	2615	0.5814	1	604	1.920	4.3
53	17.733	4072	0.9054	1	726	2.989	5.6
55	18.083	2385	0.5302	1	298	1.750	8.0
56	18.400	1698	0.3775	1	165	1.246	10.3
57	18.917	2054	0.4567	1	350	1.508	5.9
61	20.083	1734	0.7971	1	189	0.981	7.1
63	20.450	1550	0.3447	1	96	1.138	16.2

Total Area: 449725 Area Reject: 1000 One sample per 1.000 sec.

Data File = F:0520635.PTS Printed on 05-22-1998 at 09:15:51
Start time: 0.00 min. Stop time: 29.50 min. Offset: 0 mv.
Full Range: 250 millivolts



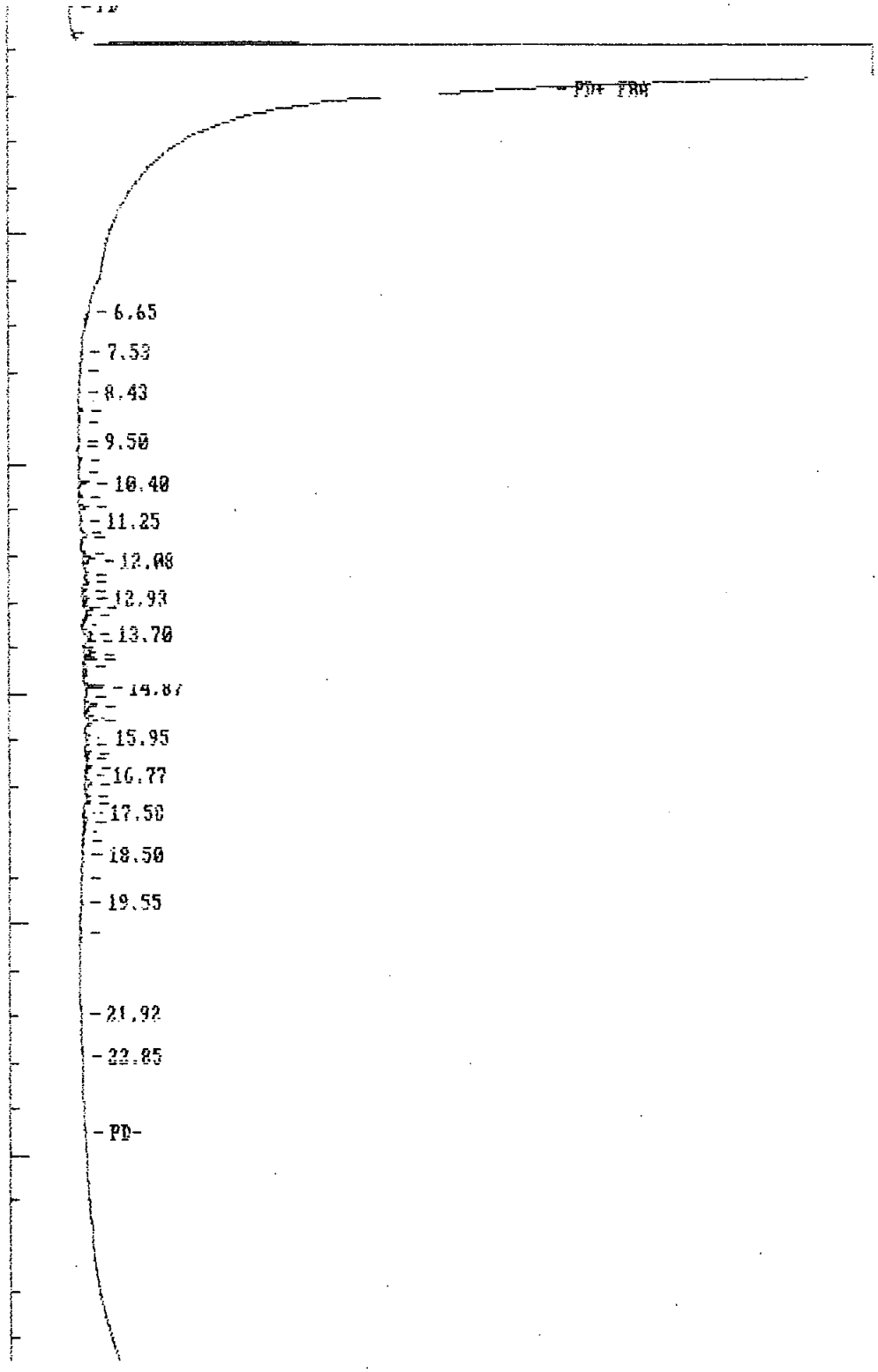
********** 05-22-1998 09:16:42 Version 5.1 **********
* Sample Name: 1031-2A Data File: E:052088 *
* Date: 05-20-1998 20:15:26 Method: C:TPHNEW *
* Interface: 5 Cycle#: 8 Operator CK Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 1 Threshold: .01 Area Threshold: 50 *
****
Starting Delay: 0.00 Run Time: 29.50

Pk No.	Ret Time	Peak Area	Area %	B L	Peak Ht.	Normalized %	Area/ Height
1	6.450	1014	0.2455	1	175	3.464	5.8
2	7.533	1496	0.3617	1	115	5.106	13.0
3	7.967	3765	0.9102	1	362	12.850	10.4
4	8.433	2803	0.6776	1	338	9.567	8.3
5	8.817	5156	1.2464	1	1332	17.597	3.9
7	9.067	2089	0.5050	1	490	7.130	4.3
10	9.500	2930	0.7082	1	558	9.998	5.3
11	9.617	2487	0.6012	1	662	8.488	3.8
13	9.900	6086	1.4713	1	1214	20.771	5.0
14	10.133	1820	0.4400	1	534	6.212	3.4
16	10.400	15622	3.7766	1	3286	53.317	4.8
17	10.733	6183	1.4947	1	1134	21.102	5.5
18	10.950	14189	3.4301	1	3065	48.427	4.6
20	11.250	1643	0.3972	1	558	5.607	2.9
21	11.467	1507	0.3642	1	494	5.142	3.0
22	11.583	9777	2.2426	1	1338	31.460	6.9
23	11.950	5486	1.3262	1	1195	18.724	4.6
24	12.083	19997	4.8347	1	3734	68.249	5.4
26	12.400	4130	0.9984	1	1148	14.095	3.6
27	12.567	13349	3.2271	1	1905	45.560	7.4
28	12.767	5681	1.3734	1	1587	19.389	3.6
29	12.933	13304	3.2146	1	1974	45.411	6.7
30	13.150	14394	3.9607	1	4406	55.914	3.7
31	13.300	11327	2.7371	1	2031	38.642	5.6
32	13.500	1354	0.3279	1	481	4.628	2.8
33	13.700	11713	2.8314	1	1764	39.974	6.6
34	13.867	6431	1.5547	1	2188	21.949	2.9
35	14.133	20750	5.0167	1	3390	70.819	6.1
36	14.267	13586	3.2844	1	3863	46.369	3.5
37	14.433	15948	3.8554	1	1359	54.430	11.7
38	14.867	29300	7.0832	1	5709	100.000	5.1
39	15.067	2269	0.5485	1	703	7.744	3.2
40	15.267	22385	5.4115	1	3458	76.399	6.1
41	15.517	4888	1.1817	1	1857	16.683	2.6
42	15.600	14447	3.5409	1	2730	49.990	5.4
43	15.950	8877	2.1459	1	1488	30.295	6.0
44	16.117	2646	0.6445	1	794	9.099	3.4
45	16.300	6868	1.6650	1	1947	23.507	3.5
46	16.417	5405	1.3064	1	1043	18.447	5.2
47	16.600	9293	2.2466	1	1951	31.717	4.8
48	16.767	3067	0.7414	1	806	10.468	3.8
49	16.983	18031	4.3589	1	2144	61.539	8.4
50	17.233	5902	1.4268	1	1304	20.143	4.5
51	17.367	5641	1.3637	1	1650	19.253	3.4
52	17.583	2244	0.5424	1	547	7.657	4.0

55	18.183	4966	1.2005	1	570	16.947	9.4
56	18.500	6047	1.4618	1	506	20.638	12.0
57	19.000	5097	1.2322	1	530	17.396	9.6
59	19.550	2437	0.5891	1	553	8.317	4.4
61	20.183	2107	0.5094	1	477	7.191	4.4
68	21.917	1330	0.3214	1	179	4.538	7.4
70	22.850	1340	0.3239	1	274	4.573	4.9

Total Area: 413654 Area Reject: 1000 One sample per 1.000 sec.

Data File = F:0570SR.PTS Printed on 05-22-1998 at 09:16:51
Start time: 0.00 min. Stop time: 29.50 min. Offset: 0 mv.
Full Range: 250 millivolts



***** AREA PERCENT REPORT *****

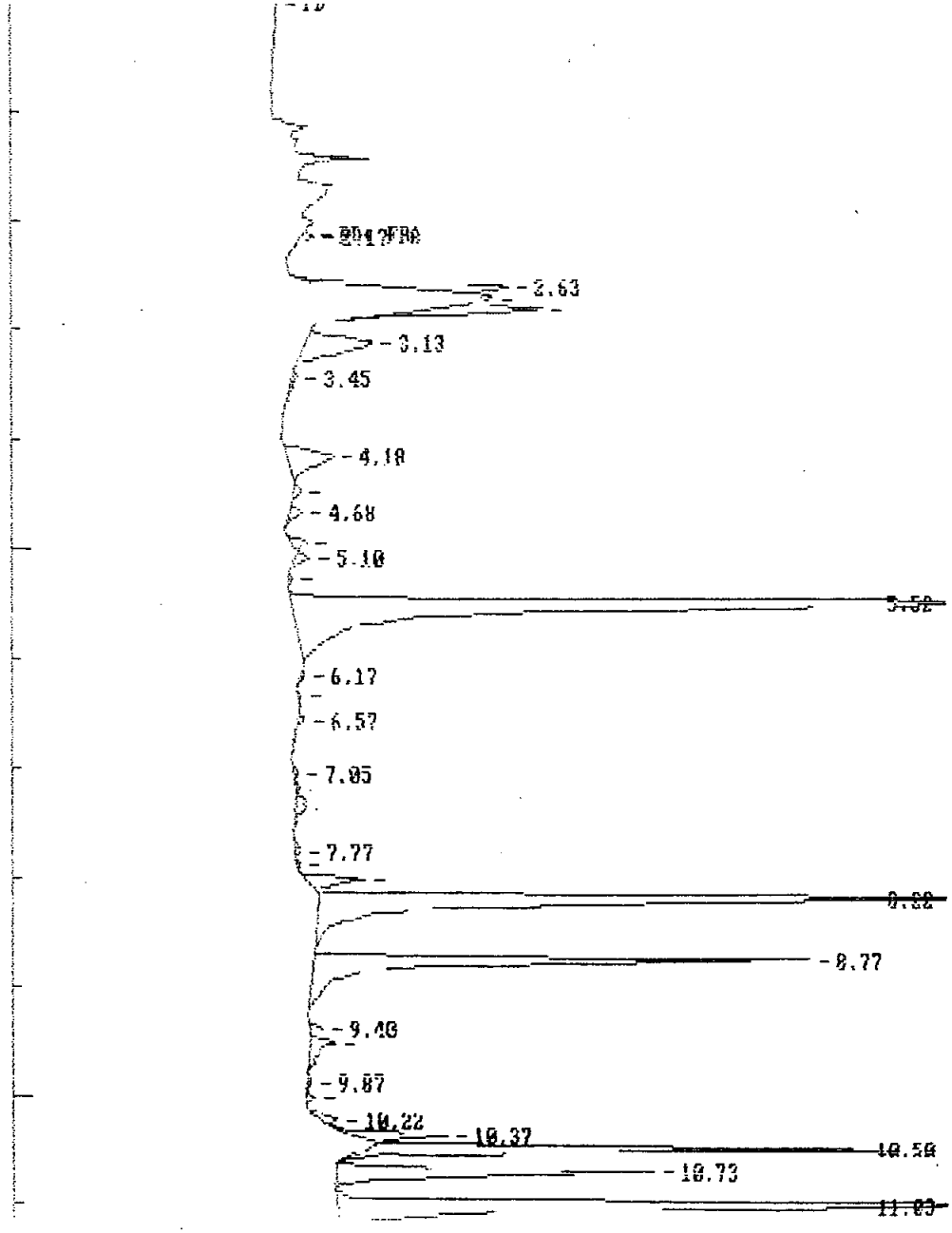
********** 05-22-1998 11:57:30 Version 5.1 **********
* Sample Name: 1031-1c 5X Data File: Z:052511
* Date: 05-22-1998 08:41:10 Method: C:TPHPT
* Interface: 4 Cycle#: 11 Operator JDC Channel#: 0 Vial#: N.A.
* Starting Peak Width: 1 Threshold: .01 Area Threshold: 50
****
* Instrument Type: HP 5890 Column Type: DB-5
* Solvent Description:
* Conditions: 40 C for 5 min to 190 C at 10 deg/min
* Detector 0: FID Detector 1: FID
* Misc. Information: TPH for gasoline
****
Starting Delay: 0.00 Run Time: 13.30

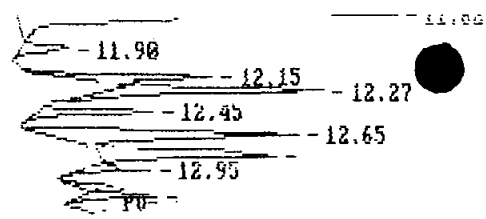
Pk No.	Ret Time	Peak Area	Area %	B l.	Peak Ht.	Normalized %	Area/ Height
1	2.167	8059	0.2733	1	1549	1.148	5.2
2	2.433	45475	1.3153	1	10124	4.473	4.5
3	2.733	3229	0.0935	1	1138	0.460	2.8
4	2.833	64849	1.8777	1	12288	9.241	5.3
5	3.133	75102	2.1745	1	7149	10.703	10.5
6	3.450	6051	0.1752	1	645	0.862	9.4
7	4.183	48992	1.4185	1	4828	6.982	10.1
8	4.500	4791	0.1387	1	809	0.683	5.9
9	4.683	8367	0.2423	1	1303	1.192	6.4
10	4.967	7316	0.2118	1	1495	1.043	4.9
11	5.100	8764	0.2538	1	1615	1.249	5.4
12	5.283	1599	0.0463	1	357	0.228	4.5
13	5.517	701724	20.3180	1	94788	100.000	7.4
14	6.147	3673	0.1064	1	513	0.523	7.2
15	6.350	1206	0.0349	1	387	0.172	3.1
17	6.567	3279	0.0949	1	709	0.467	4.6
19	7.050	2933	0.0849	1	478	0.418	6.1
20	7.200	1650	0.0478	1	450	0.235	3.7
21	7.383	10066	0.2915	1	1082	1.434	9.3
22	7.767	2887	0.0836	1	510	0.411	5.7
23	7.900	1196	0.0346	1	327	0.170	3.7
24	8.033	28595	0.8280	1	6243	4.075	4.6
25	8.217	474619	13.7423	1	88723	67.636	5.3
26	8.767	284836	8.2472	1	53392	40.591	5.3
27	9.400	4725	0.1368	1	1413	0.673	3.3

30	10.017	3400	0.0984	1	945	0.485	3.6
31	10.217	4947	0.2011	1	1567	0.9[illegible]	4.4
32	10.367	38615	1.1181	1	9467	5.503	4.1
33	10.500	230214	6.6657	1	55044	32.807	4.2
34	10.733	150335	4.3529	1	34118	21.424	4.4
35	11.033	529734	15.3381	1	113945	75.490	4.6
36	11.367	20877	0.6045	1	3988	2.975	5.2
37	11.617	193199	5.5940	1	38855	27.532	5.0
38	11.900	21018	0.6085	1	4978	2.995	4.2
39	12.150	38893	1.1261	1	12664	5.542	3.1
40	12.267	97309	2.8175	1	22682	13.867	4.3
41	12.450	41047	1.1885	1	11822	5.849	3.5
42	12.650	110864	3.2100	1	24558	15.799	4.5
43	12.833	86279	2.4982	1	17820	12.295	4.8
44	12.950	21837	0.6323	1	6990	3.112	3.1
45	13.100	9534	0.2760	1	3107	1.359	3.1
46	13.183	26149	0.7577	1	7805	3.729	3.4

Total Area: 3453708 Area Reject: 1000 One sample per 1.000 sec.

Data File = Z:0521S11.PTS Printed on 05-22-1998 at 11:57:38
Start time: 0.00 min. Stop time: 13.30 min. Offset: 0 mv.
Full Range: 100 millivolts





AREA PERCENT REPORT

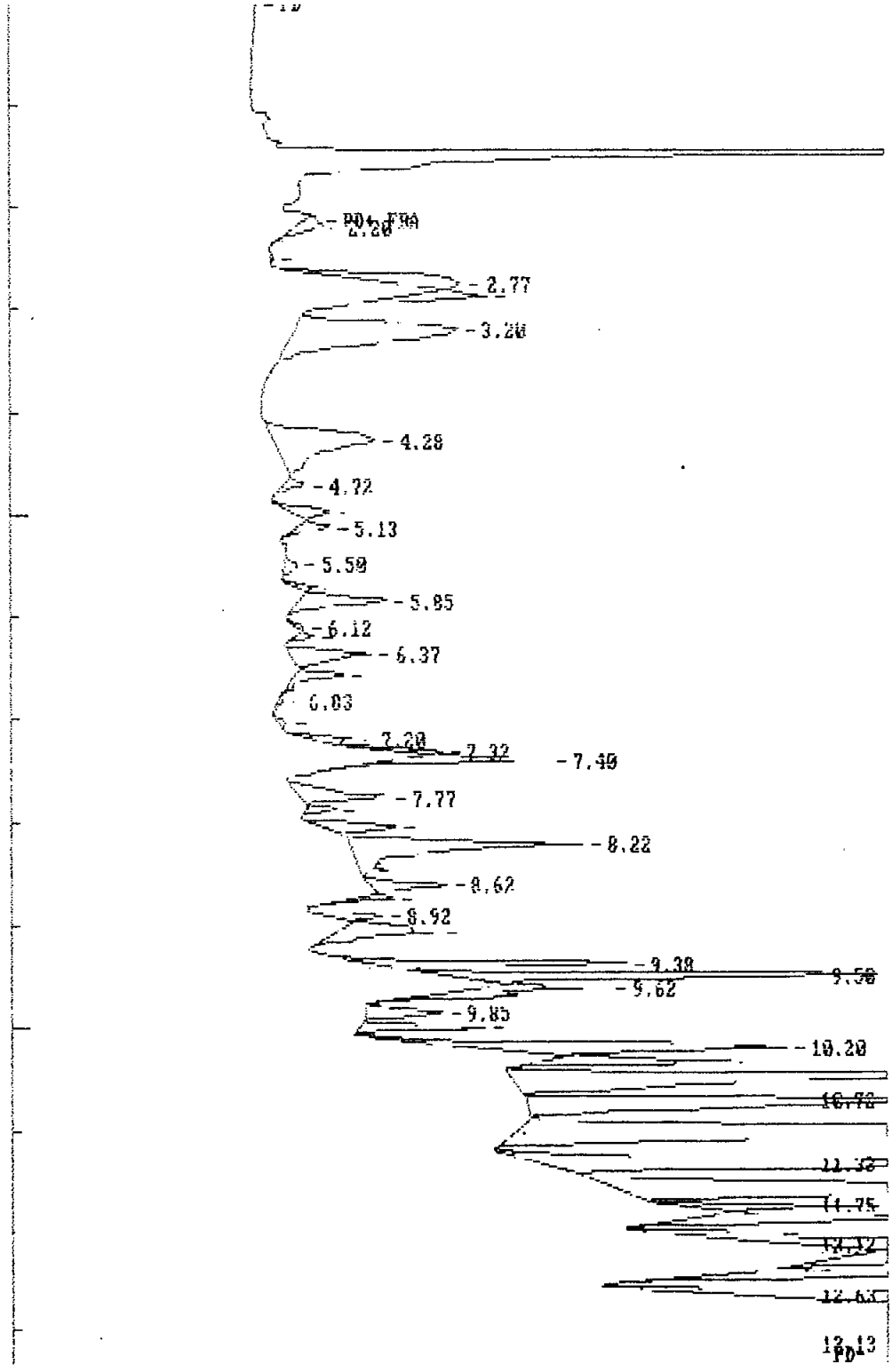
********** 05-27-1998 13:58:23 Version 5.1 **********
* Sample Name: 1031-2c Data File: Z:052313 *
* Date: 05-27-1998 09:32:11 Method: C:TPHPT *
* Interface: 4 Cycle#: 13 Operator JDC Channel#: 0 Vial#: N.A. *
* Starting Peak Width: 1 Threshold: .01 Area Threshold: 50 *
****
* Instrument Type: HP 5890 Column Type: DB-5 *
* Solvent Descriptions: *
* Conditions: 40 C for 5 min to 190 C at 10 deg/min *
* Detector 0: FID Detector 1: FID *
* Misc. Information: TPH for gasoline *
****
Starting Delay: 0.00 Run Time: 13.30

Pk No.	Ret Time	Peak Area	Area %	B	Peak Ht.	Normalized %	Area/ Height
1	2.200	27751	0.2750	1	3286	1.334	8.3
2	2.500	1709	0.0141	1	375	0.084	4.6
3	2.767	79414	0.6557	1	5988	3.887	13.3
4	2.883	51075	0.4217	1	9367	2.500	5.5
5	3.200	250772	2.0705	1	18574	12.274	13.5
6	4.283	167123	1.3799	1	11556	8.180	14.5
7	4.717	13946	0.1151	1	2337	0.683	6.0
8	4.983	23943	0.1977	1	4278	1.172	5.6
9	5.133	20548	0.1697	1	3755	1.006	5.5
11	5.500	11327	0.0935	1	1485	0.554	7.6
12	5.717	6697	0.0553	1	1871	0.328	3.6
13	5.850	65599	0.5416	1	9902	3.211	6.6
14	6.117	2773	0.0188	1	386	0.111	5.9
15	6.200	9233	0.0762	1	2218	0.452	4.2
16	6.347	55626	0.4593	1	9141	2.723	6.1
17	6.547	31449	0.2597	1	5495	1.539	5.7
18	6.833	3091	0.0255	1	698	0.151	4.4
19	7.033	3906	0.0323	1	1011	0.191	3.9
20	7.200	12850	0.1061	1	3782	0.629	3.4
21	7.317	10038	0.0829	1	3059	0.491	3.3
22	7.400	74451	0.6147	1	18041	3.644	4.1
23	7.767	56626	0.4675	1	9682	2.772	5.8
24	7.883	12186	0.1006	1	3378	0.596	3.6
25	8.050	41081	0.3392	1	8055	2.011	5.1
26	8.217	187921	1.5516	1	26885	9.198	7.0
27	8.617	41456	0.3423	1	8542	2.029	4.8
28	8.750	16693	0.1378	1	4775	0.817	3.5
29	8.917	14957	0.1235	1	4902	0.732	3.1
30	9.067	84557	0.6982	1	11449	4.139	7.3
31	9.383	93551	0.7724	1	27743	4.579	3.4
32	9.500	165948	1.3702	1	47485	8.123	3.5
33	9.617	93360	0.7708	1	15004	4.570	6.2
34	9.850	43398	0.3583	1	8821	2.124	4.9
35	10.000	49749	0.4075	1	14404	2.396	3.4
36	10.200	185060	1.5280	1	33353	9.058	5.5
37	10.333	97208	0.8024	1	22191	4.758	4.4
38	10.467	709598	5.8589	1	156556	34.732	4.5
39	10.717	394748	3.2593	1	87280	19.321	4.5

42	11.583	1765857	11.2773	1	269501	66.854	5.1
43	11.750	53375	0.4407	1	19202	2.641	2.8
44	11.867	230909	1.9065	1	55773	11.302	4.2
45	12.117	304277	2.5173	1	91946	14.893	3.3
46	12.250	880356	7.2687	1	194656	43.090	4.5
47	12.417	275598	2.2755	1	82943	13.490	3.3
48	12.633	545374	4.6681	1	129385	27.673	4.4
49	12.800	1819103	15.0196	1	320264	89.039	5.7
50	13.133	771564	6.3705	1	134654	37.765	5.7

Total Area: 12111552 Area Reject: 1000 One sample per 1.000 sec.

Data File = Z:0521R13.PTS Printed on 05-22-1998 at 13:58:31
Start time: 0.00 min. Stop time: 13.30 min. Offset: 0 mv.
Full Range: 100 millivolts



ENCLOSURE B

FIELD NOTES

1pm

MW-2 (~~EAST~~ WELL)

9-gallons x 3 = 27 gal PURGE

DEPTH TO grndWTR 29.22' to TOC

TOTAL DEPTH 43.22' BOTTOM OF CASING. TOC

hydrocarbon odor noticed, some product observed on the water level indicator TAPE.

MW-1 (WEST WELL)

8.5gallons x 3 = 26 gal Purge.

DEPTH TO grndWTR 28.1' to TOC.

TOTAL DEPTH 41.20' BOTTOM OF CASING TOC

Hydrocarbon odor noticed.

πr^2 (depth of WTR)

Finished Sampling at 4:30pm

sla
SIMONS, LI & ASSOCIATES, INC.

CLIENT Capitan Oil | JOB NO. | PAGE
PROJECT Tank Pull | DATE CHECKED | DATE 4/29/98
DETAIL | CHECKED BY | COMPUTED BY

Arrived on-site at 9:30 am

- Two tanks pulled out of the ground
- on S South side of Building. (1- additional 10,000 gallon Tank found. - 9:45a
- Waste oil
- gasoline
- Waste oil

} Removed from EAST SIDE OF BLDG.

10:15 -

TANKS @ EAST END OF YARD Removed

4-Tanks appear to be 10K capacity. Lined up side By side. Tanks are Kerosene/diesel, Red diesel, Red diesel diesel. Finish Pull @ 11:20am.

Fire Department Agency on-site Documenting pulls

County Agency on-site

Pamela Villa Clay informed me that they will be Pulling Soil Samples from the bottom of each tank Excavation (2 Samples per tank.)

Pulling waste oil tank No. 5 out of the ground at 11:25 am.

Pulling waste oil Tank No. 3 @ 11:35am

Tanks going to Pacific Coast Recycling

sla
SIMONS, LI & ASSOCIATES, INC.

CLIENT CAPITAN OIL JOB NO. PAGE
PROJECT DATE CHECKED DATE 4/29/98
DETAIL CHECKED BY SLA COMPUTED BY

TANK 3 one holes on Top and bottom 1/4" Diam.

Tank 2 moderate Corrosion no holes

Tank 4 Slight pitting no holes

Tank 1 Mod. Corrosion no holes Slight pitting

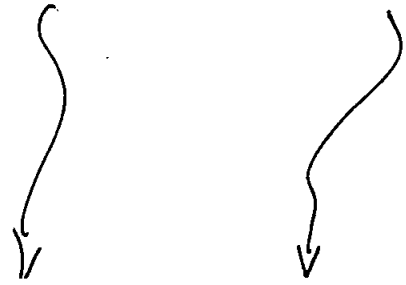
Tank 5 good condition no holes, no pitting

Tank 6

Tank 7

Tank 8

Tank 9



Begin Soil Sampling @ County directing sampling Activities

11:50am TANK # 5 # of Samples ~~Depth 6' bgs~~ Analysis

T5 - tank 5
W - West side of hole
6 - 6 ft bgs

T5W-6 Time: 11:52 am

See Sample Log

P1-4 P1-pipeline

Contractor: SouthBay Env. Services (Steve Haggerty)

LABS: Mobile one

12p - Continuing to pull samples from T1 & T2 - pet. odor noticeable.

Tank No. 9 - ~ 15.5' bgs D.G. lithology

DAVE FELIX will Cordinate for well sampling identification.

Finished Sampling at 1:30pm

sla
SIMONS, LI & ASSOCIATES, INC.

CLIENT El CAPITAN OIL — JOB NO. — PAGE
PROJECT — DATE CHECKED — DATE 4/29/98
DETAIL — CHECKED BY — COMPUTED BY

H19469 001 - Site Case Number County.

338-2315 FAX →

David Felix - project manager

Break For Lunch @ 1:35p.

Back on-site at 2:20p.

Contracter backfilling excavation (T1-T2-T3-T4-T5).

3pm - Contracter will continue backfilling until 4pm.

Try and finish T1-T5 excavation. Move to ~~T7~~ T6-T9.

Finish backfilling tomorrow.

Soil Sample Log

CLIENT EL CAPITAN OIL JOB NO. ____ PAGE ____
PROJECT ____ DATE CHECKED ____ DATE 4/29/98
DETAIL ____ CHECKED BY ____ COMPUTED BY ____

SIMONS, LI & ASSOCIATES, INC.

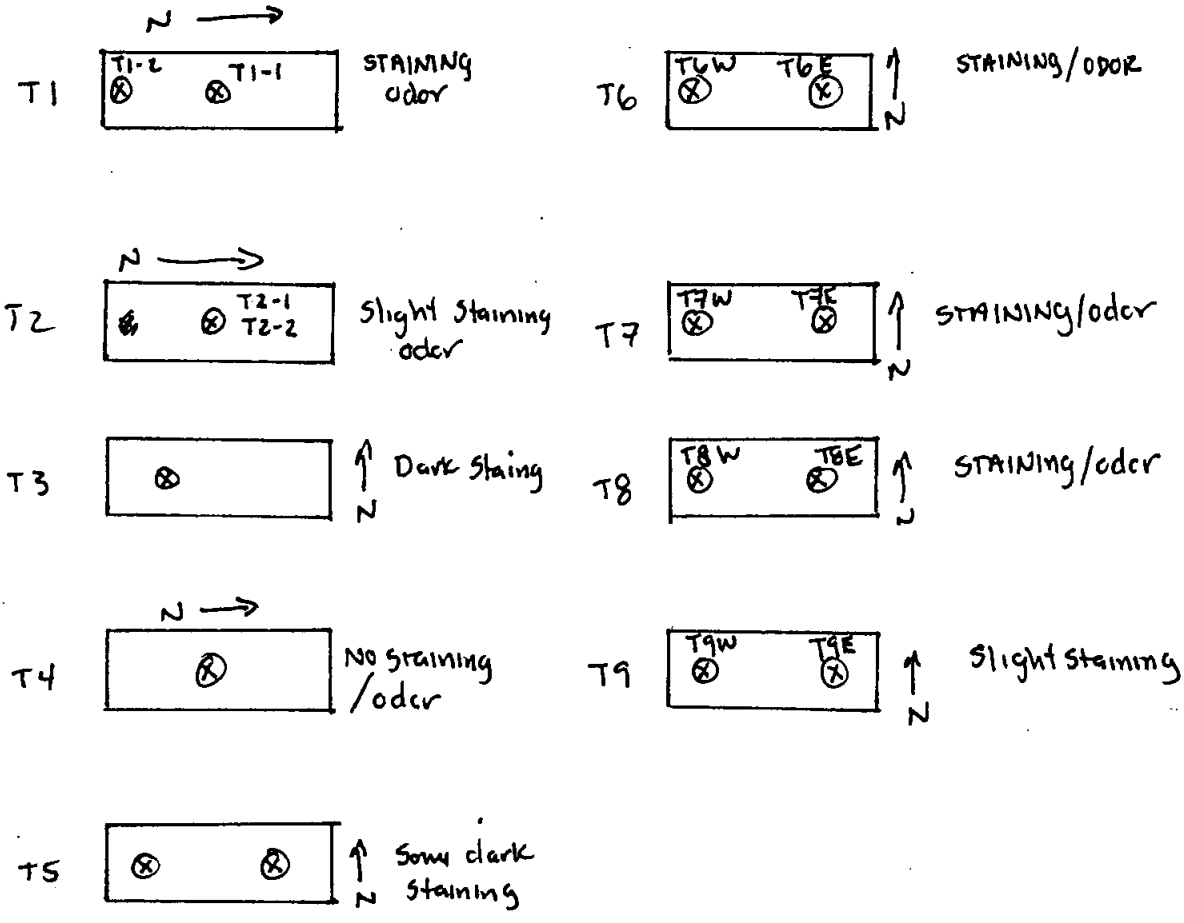
SAMPLE	Time	Analysis	RESULT (ppm)	
TSW-6	11:52am	TRPH 418.1	5858	
TSE-6.3	11:57am	TRPH 418.1	260	
T3-9.5	12:04p	TRPH 418.1/TPH 8015	1870	TPH(g)/TPH(d) 70/1722
T3-6.4	12:02p	TRPH 418.1	4343	
T4 ~~6.5~~ - 10	12:11p	TPH 8015	821/ND	
P1-4	12:18p	TPH 8015	ND/372	
~~T1-1~~ - 15.5 T1-1	12:38p	TPH ~~8015~~ BTEX, MTBE 8020	ND/ND	
T1-2-15	12:40p	TPH 8015	401/1954	
T2-1-14	12:44p	TPH 8015	ND/11	
T2-2-16	12:45p	TPH 8015	ND/ND	
T9E-15.5	12:55p	TPH 8015	ND/30	
T9W-17	1:00p	TPH 8015		
T8E-16	1:03p	TPH 8015		
T8W-16	1:07p	TPH 8015		
T7W-16	1:09p	TPH 8015		
T7E-16	1:10p	TPH 8015		
T6E-16	1:12p	TPH 8015		
T6W-16.5	1:14p	TPH 8015		

sla
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CLIENT EL CAPITAN OIL JOB NO. PAGE
PROJECT DATE CHECKED DATE 4/29/98
DETAIL CHECKED BY COMPUTED BY

Tank and Sample LOCATIONS



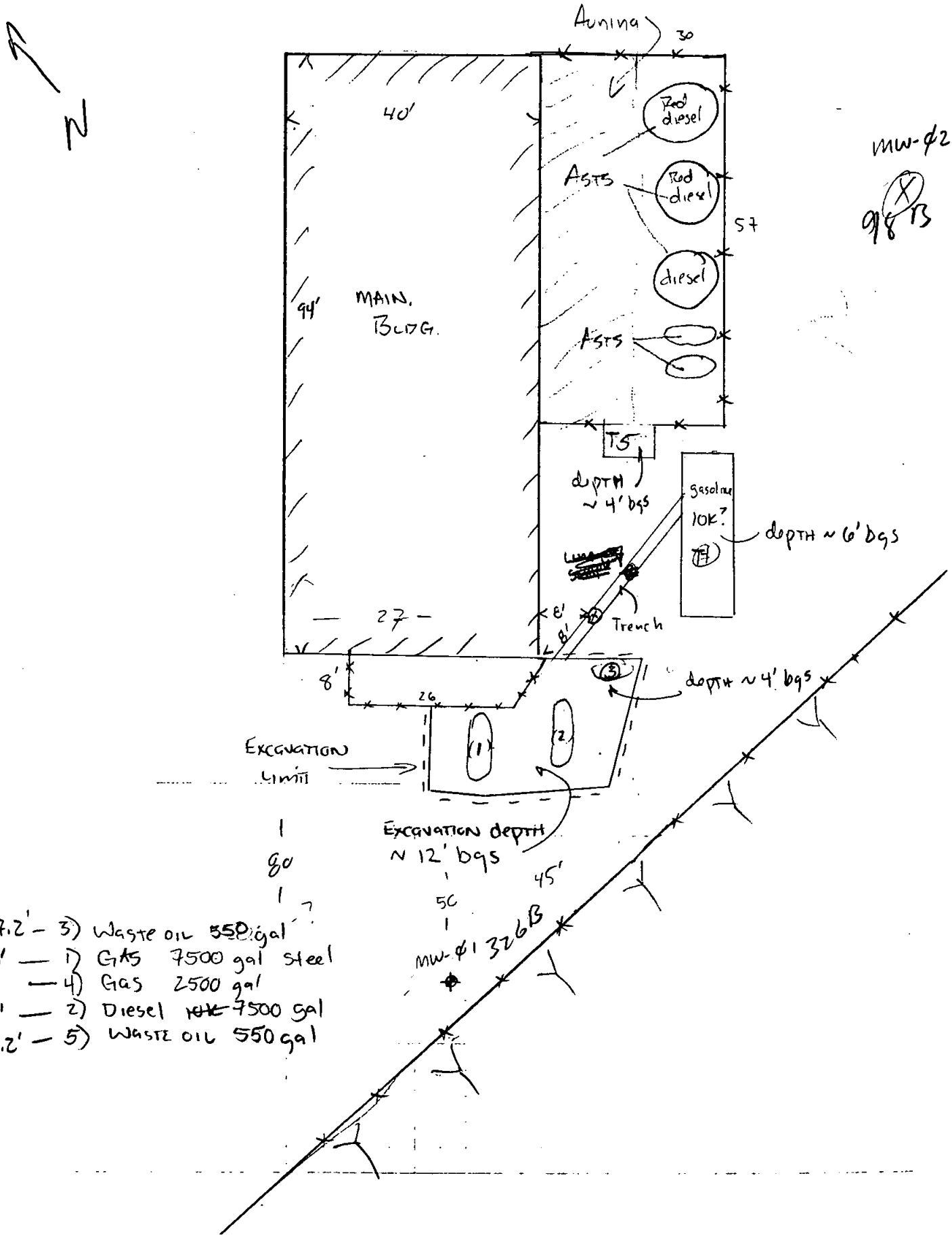


⊗ - Soil Sample

1=20'

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SIMONS, LI & ASSOCIATES, INC.

CLIENT CAPITAN OIL | JOB NO. | PAGE
PROJECT | DATE CHECKED | DATE 4/29/98
DETAIL | CHECKED BY SLA | COMPUTED BY



3.8'x 7.2' — 3) Waste oil 550 gal
8'x 20' — 1) GAS 7500 gal steel
6'x 12' — 4) Gas 2500 gal
8'x 20' — 2) Diesel ~~10K~~ 7500 gal
3.8x7.2' — 5) Waste oil 550 gal

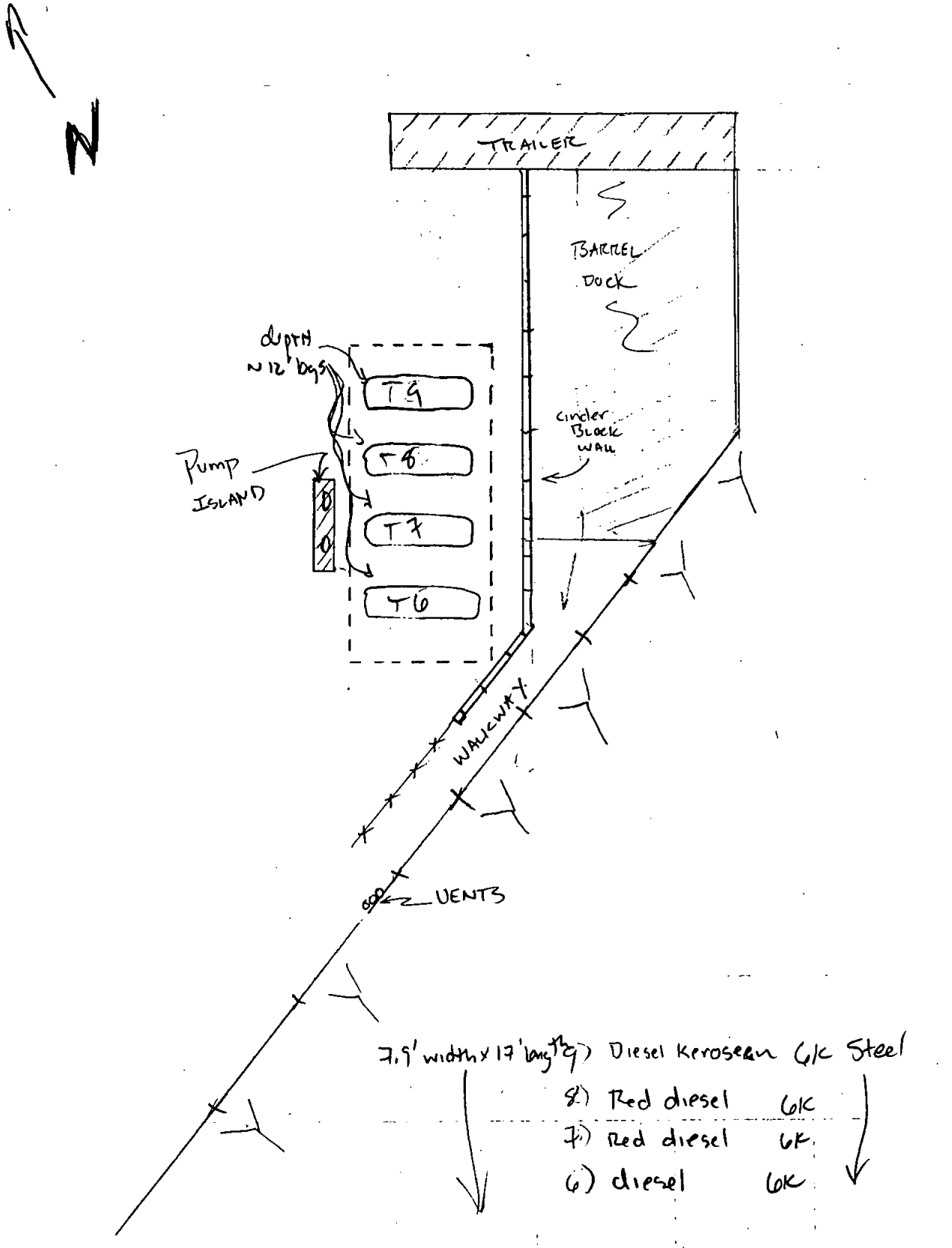
1 = 20'

sla
SIMONS, li & ASSOCIATES, INC.

CLIENT E.C. CAPITAN OIL
PROJECT
DETAIL

JOB NO.
DATE CHECKED
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DATE 4/29/98
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6160 Fairmount Avenue • Suite A
San Diego, California 92120
Phone No. (619) 299-0033
FAX No. (619) 299-0087

ENECOTECH
Environmental Consultants

FACSIMILE COVER SHEET

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TO: David Felix
County of San Diego, SAM

FAX NO.: (619) 338-2377

FROM: Melissa Novak

DATE: May 26, 2000

TIME: a.m./p.m.

PRIORITY: __X__ normal
_____ URGENT!

PROJECT/BILL GRP NO.: 02-01686-001

PHASE/TASK: BG 001

SUBJECT: Addendum 2 to the Work Plan for Environmental Services for Subject Site Location: 11427 Woodside Avenue, Santee, CA #T0948/H19469

Number of pages (Including Cover Sheet): 4

Dear Mr. Felix:

This Work Plan Addendum 2, in response to your letter dated May 8, 2000, is being sent for your review.

If your have any questions, please feel free to call Mike Gibbs or the undersigned at (619) 299-0033.

Sincerely,
ENECOTECH SOUTHWEST, Inc.

Melissa Novak

Melissa Novak
Staff Scientist

cc. Jim Wigington

ORIGINAL TO FOLLOW IN MAIL: ___ Yes ___ No __X__ By Request

SENT VIA FACSIMILE

May 26, 2000 Project: 1686-001

Mr. Jim Wigington
Wigington Petroleum, Inc.
P.O. Box 2504
Spring Valley, CA 92077

RE: Addendum 2 to the Work Plan for Environmental Services dated March 7, 2000
11427 Woodside Avenue, Santee, CA
#T0948/H19469
APN#: 382-320-06

Dear Mr. Wigington:

EnecoTech Southwest, Inc. (EnecoTech) is pleased to provide this second addendum to EnecoTech's "Work Plan for Environmental Services" dated March 7, 2000, for the subject site located at 11427 Woodside Avenue in Santee, California. The first addendum was sent to David Felix, County of San Diego, Site Assessment and Mitigation Division (SAM) on March 31, 2000, who required an additional groundwater sampling event prior to work to be performed as part of the March 7, 2000, Work Plan. This second addendum covers additional investigative activities at the subject site requested in a SAM letter dated May 8, 2000.

The following tasks are to be performed, as required by SAM:

- Four groundwater monitoring wells have been required by SAM at locations indicated on Figure 1. The well location to the south of MW1 as proposed by SAM, off the actual subject site, is on an adjacent private property. Due to the fact that approval has not been obtained for drilling at this location, installation of this well will be detained. ?
- After completion of well installation, elevation measuring and groundwater samples will be collected from each newly installed and existing well on site.
- Soil samples will be collected upon visual evidence of contaminated soils during drilling activities. EnecoTech also practices using a PID (photo-ionization detector) to detect signs of soil contaminants during boring activities. If no contamination is observed, one soil sample will be collected at the watertable of each boring without evidence of contamination.
- The collected groundwater and soil samples will be analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8015/8020. Samples with positive results of MTBE will be confirmed for MTBE levels using EPA Method 8260B.

EnecoTech will develop and submit a comprehensive report based on the data collected from the field activities and laboratory results.

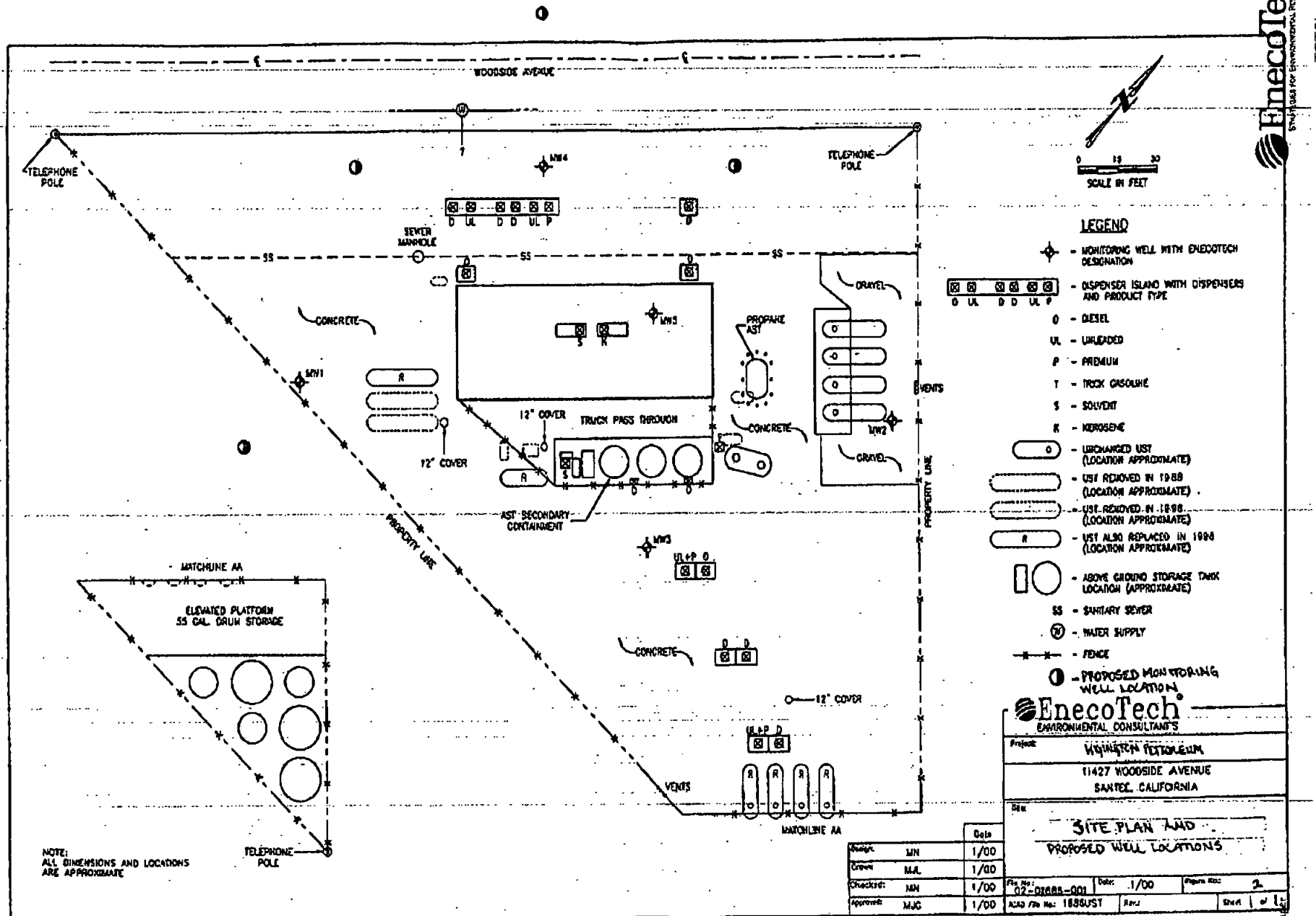
If you have any questions or concerns, please contact the undersigned by phone at (619) 299-0033.

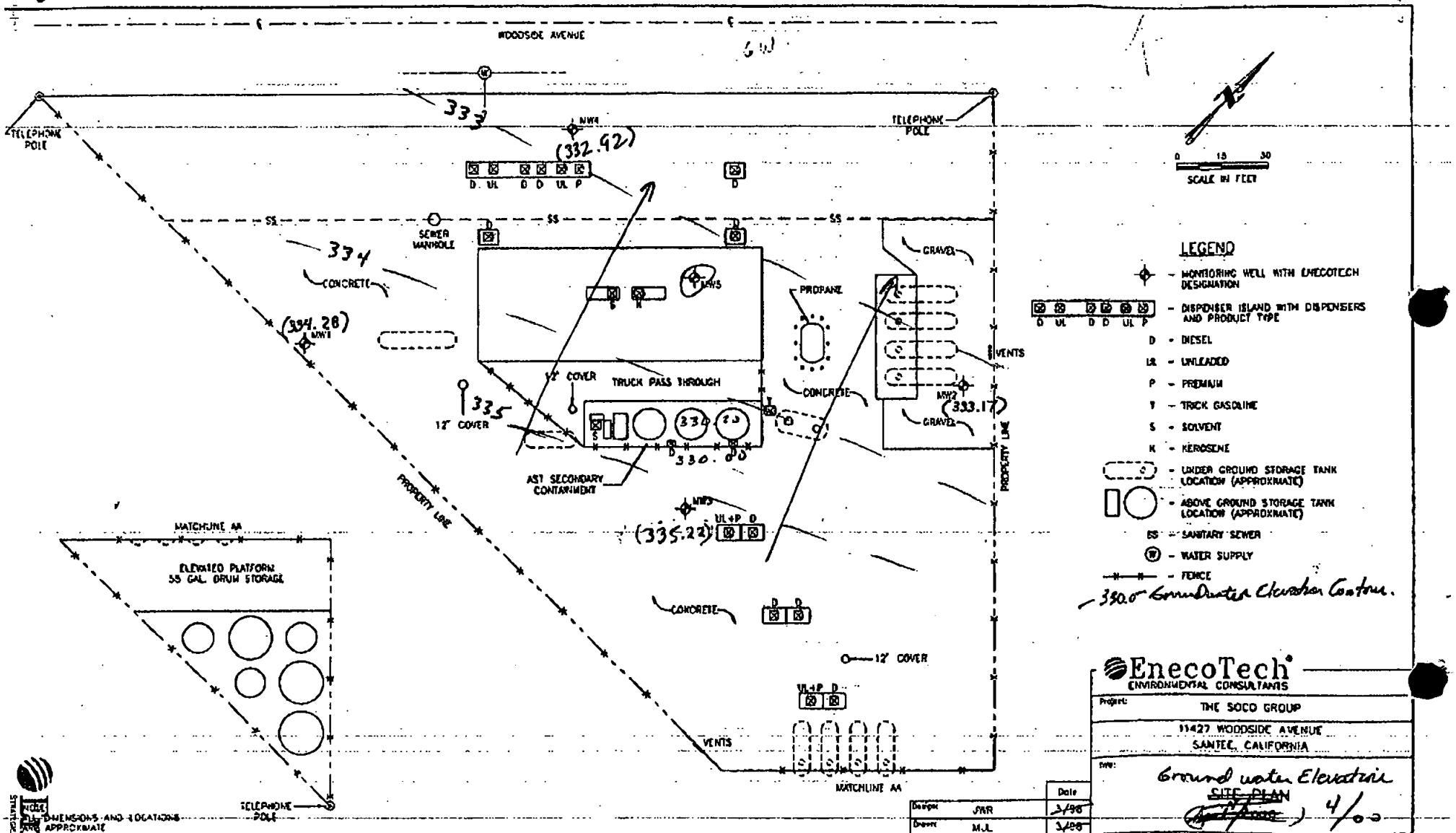
Sincerely,
ENECOTECH SOUTHWEST, INC.

Melissa Novak
Staff Scientist

Michael J. Gibbs
Scientist Geologist

cc: David Felix - SAM

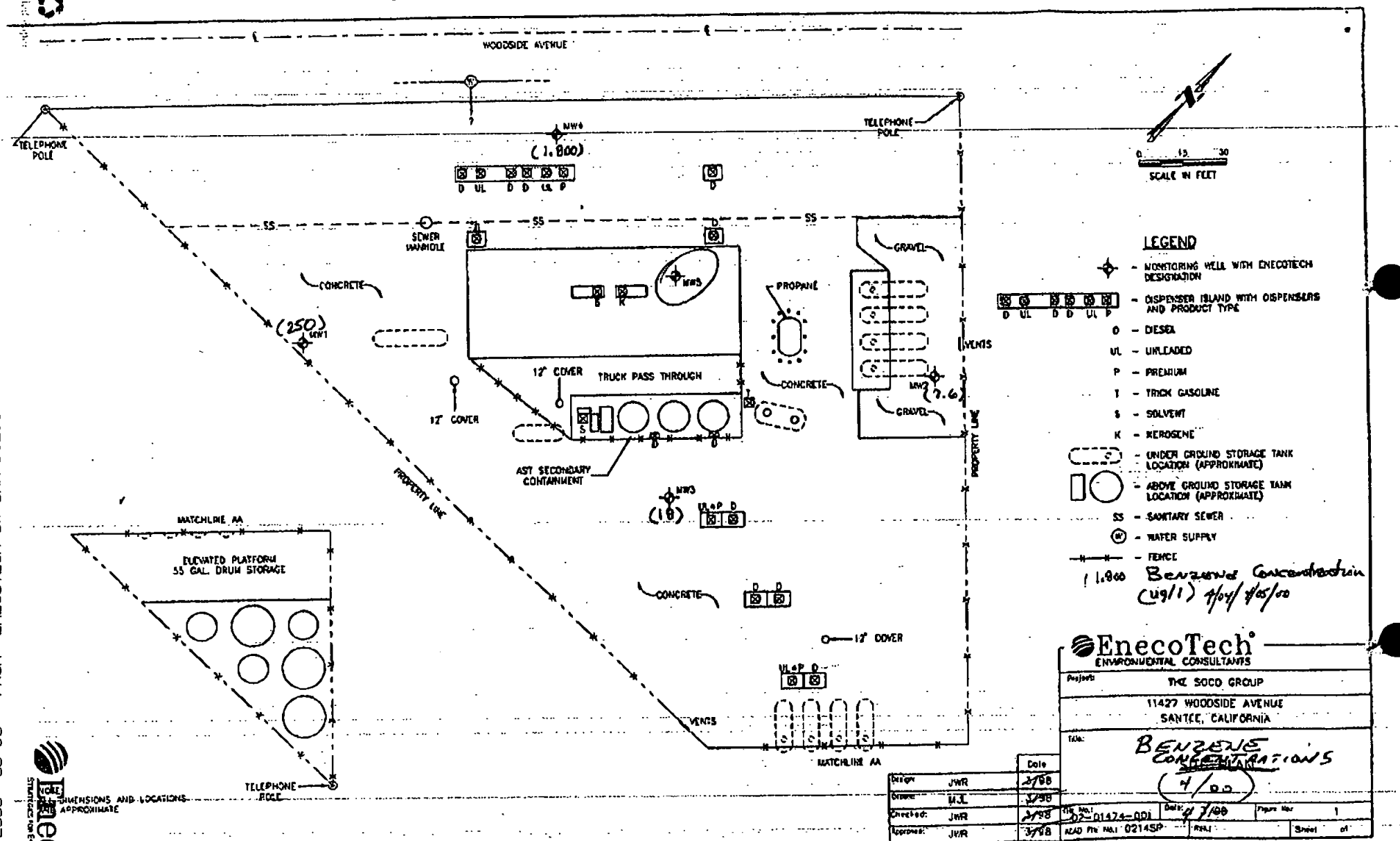

WOODSIDE AVENUE
TELEPHONE POLE
TELEPHONE POLE
SEWER MANHOLE
SS
SS
SS
MW4
MW5
MW1
MW2
MW3
CONCRETE
CONCRETE
CONCRETE
GRAVEL
GRAVEL
PROPANE AST
12" COVER
12" COVER
12" COVER
TRUCK PASS THROUGH
AST SECONDARY CONTAINMENT
VENTS
VENTS
PROPERTY LINE
PROPERTY LINE
MATCHLINE AA
MATCHLINE AA
ELEVATED PLATFORM
55 GAL. DRUM STORAGE
TELEPHONE POLE
NOTE:
ALL DIMENSIONS AND LOCATIONS
ARE APPROXIMATE
0 15 30
SCALE IN FEET
LEGEND
- MONITORING WELL WITH ENECOTECH DESIGNATION
- DISPENSER ISLAND WITH DISPENSERS AND PRODUCT TYPE
D - DIESEL
UL - UNLEADED
P - PREMIUM
T - TRUCK GASOLINE
S - SOLVENT
K - KEROSENE
- UNCHANGED UST (LOCATION APPROXIMATE)
- UST REMOVED IN 1988 (LOCATION APPROXIMATE)
- UST REMOVED IN 1998 (LOCATION APPROXIMATE)
- UST ALSO REPLACED IN 1998 (LOCATION APPROXIMATE)
- ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
SS - SANITARY SEWER
- WATER SUPPLY
- FENCE
- PROPOSED MONITORING WELL LOCATION
EnecoTech
ENVIRONMENTAL CONSULTANTS
Project: MISSION PETROLEUM
11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA
Title: SITE PLAN AND PROPOSED WELL LOCATIONS
Design: MN 1/00
Drawn: M.L 1/00
Checked: MN 1/00
Approved: MJC 1/00
File No: 02-0888-001
Date: 1/00
Figure No: 2
CAD File No: 1888UST
Rev:
Sheet 1 of 1



NOTE: ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

EnecoTech ENVIRONMENTAL CONSULTANTS

Project:	THE SOCO GROUP	
	11427 WOODSIDE AVENUE SANTEE, CALIFORNIA	
Title:	Ground water Elevation SITE PLAN 4/00	
Designed	JWR	3/98
Drawn	M.L	3/98
Checked	JWR	3/98
Approved	JWR	3/98
Fig. No.: 02-01674-001	Date: 3/98	Figure No.: 1
HEAD File No.: 0214SD	Proj.:	Sheet of



NOTE: ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

EnecoTech
ENVIRONMENTAL CONSULTANTS

Project: THE SOCO GROUP
11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: BENZENE CONCENTRATIONS (4/00)

		Date
Design:	JWR	3/98
Drawn:	MJL	3/98
Checked:	JWR	3/98
Approved:	JWR	3/98

File No.: 02-01474-001 Date: 4/7/00 Figure No.: 1
ACAD File No.: 0214SP Rev.: Sheet: of

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San Diego, California 92120
Phone No. (619) 299-0033
FAX No. (619) 299-0087

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TO: Mr. David Felix
SAM Caseworker
_____
FAX NO.: (619) 338-2377

DATE: March 14, 2000
TIME: a.m./p.m.
PRIORITY: X normal
_____ URGENT!
PROJECT/BILL GRP NO.: 02-01686-001
PHASE/TASK: _____
PROPOSAL NO.: _____

FROM: Melissa Novak

SUBJECT: Work Plan for Environmental Services at El Capitan Oil Company, H19469

Number of pages (Including Cover Sheet): 6

Dear Mr. Felix;

Please see the attached EnecoTech "Work Plan for Environmental Services" for site location 11427 Woodside Avenue, Santee, CA (H19469). We anticipate your approval to continue with corrective actions at El Capitan Oil Company for our client, Mr. Jim Wigington, owner and operator of the site.

If you have any questions or concerns, feel free to call Michael Gibbs or myself at (619) 299-0033.

Sincerely,
EnecoTech Southwest, Inc.

Melissa Novak
Staff Scientist

cc. Mr. Jim Wigington – Wigington Petroleum, Inc.

ORIGINAL TO FOLLOW IN MAIL: ___ Yes ___ No X By Request

r:\docs\other\forms\office\faxcover.sd
March 14, 2000

EnecoTech Southwest, Inc.
6160 Fairmount Ave. • Suite A
San Diego, CA 92120
(619) 299-0033 • Fax (619) 299-0087

EnecoTech
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITY

March 14, 2000

Project: 1686-001

Mr. Jim Wigington
Wigington Petroleum, Inc.
P.O. Box 2504
Spring Valley, CA 92077

RE: Work Plan for Environmental Services
11427 Woodside Avenue
Santee, California
#T0948/H19469
APN#: 382-320-06

Dear Mr. Wigington:

EnecoTech Southwest, Inc. (EnecoTech) is pleased to provide this work plan to perform environmental services for the subject site located at 11427 Woodside Avenue in Santee, California (Figure 1) in accordance with the County of San Diego, Site Assessment and Mitigation Division (SAM). The purpose of this work plan is to perform soil and groundwater sampling in an attempt to delineate the extent of petroleum hydrocarbon impact of the site as requested in SAM letters dated November 18, 1988, and October 15, 1996.

BACKGROUND

The facility is located on a triangular-shaped parcel approximately 1.15 acres in size and located along Woodside Avenue. The site terrain is gently sloping from the southeast triangle point of the property, northwest toward Woodside Avenue. The entire property is developed as a fueling facility with underground storage tanks (USTs), above ground storage tanks (ASTs), product dispensers, and packaged petroleum products installed or located in all areas of the site not used for vehicle traffic or site access. The facility serves vehicles from heavy equipment to cars with gasoline and diesel fuel from both card-lock and attendant-controlled dispensers. In addition, petroleum products such as lubricants, solvents, racing fuel, solvent, and kerosene are sold in containers or dispensed from ASTs and USTs.

Five monitoring wells, installed in 1988, were sampled as recently as 1998. Analysis of groundwater sampled from these wells resulted in elevated levels of total petroleum hydrocarbons (TPH) and measurable levels of BTEX, lead, and MTBE.

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SCOPE OF WORK

This work plan has been developed in accordance with the County of San Diego, Site Assessment and Mitigation Division (SAM) letters, dated November 18, 1988, and October 15, 1996. SAM has requested the following tasks at the present time: further delineation of soil and groundwater impact, and submit a report of the findings.

EnecoTech will install two new 4-inch monitoring wells at the site to a maximum depth of approximately 40 feet below ground surface (bgs). These monitoring wells will be used with the four existing monitoring wells for future groundwater monitoring events. The locations of the two new monitoring wells, one to the north and one to the northwest, are indicated on Figure 2. The monitoring wells will be installed and soil samples will be collected under the supervision of a registered geologist. Well permits will be required for each boring and obtained by EnecoTech prior to drilling.

EnecoTech will collect soil samples at five-foot intervals. Soil samples will be analyzed by a state certified laboratory for lead (Pb) by EPA Method 8260. Both soil and groundwater from all site wells will be analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8015/8020. Samples with positive results of MTBE will be confirmed for MTBE levels using EPA Method 8260B. Drill cuttings and rinsate will be stored on site in DOT approved, 55-gallon drums that will be removed by a licensed Hazardous Waste Hauler.

EnecoTech will prepare a report presenting and summarizing the analytical data collected to date, and will present an estimate of the extent of the impacted soil and groundwater on site.

SITE SAFETY

A site-specific Site Safety Plan will be produced and distributed to all persons working at the site. The Site Safety Plan will address safety provisions employed during the site investigative fieldwork. A tailgate safety meeting will be conducted by the Site Safety Officer (the on-site registered geologist), during which the Site Safety Plan's provisions will be discussed with the drilling crew.

Prior to initiating the drilling program, EnecoTech will contact Underground Service Alert (USA). USA, in turn, will notify the representatives of utilities who mark the locations of underground placements in the vicinity of the site. A private utility locating service will investigate and mark utility locations at the site prior to commencement of drilling operations, if warranted by local site conditions.

SCHEDULE

The work plan field activities are expected to begin in April 2000, and a soil and groundwater assessment report will be developed after the field activities and laboratory analyses have been completed. The two new monitoring wells will be used in future groundwater monitoring events for the site.

If you have any questions regarding this work plan, please contact the undersigned at your earliest convenience.

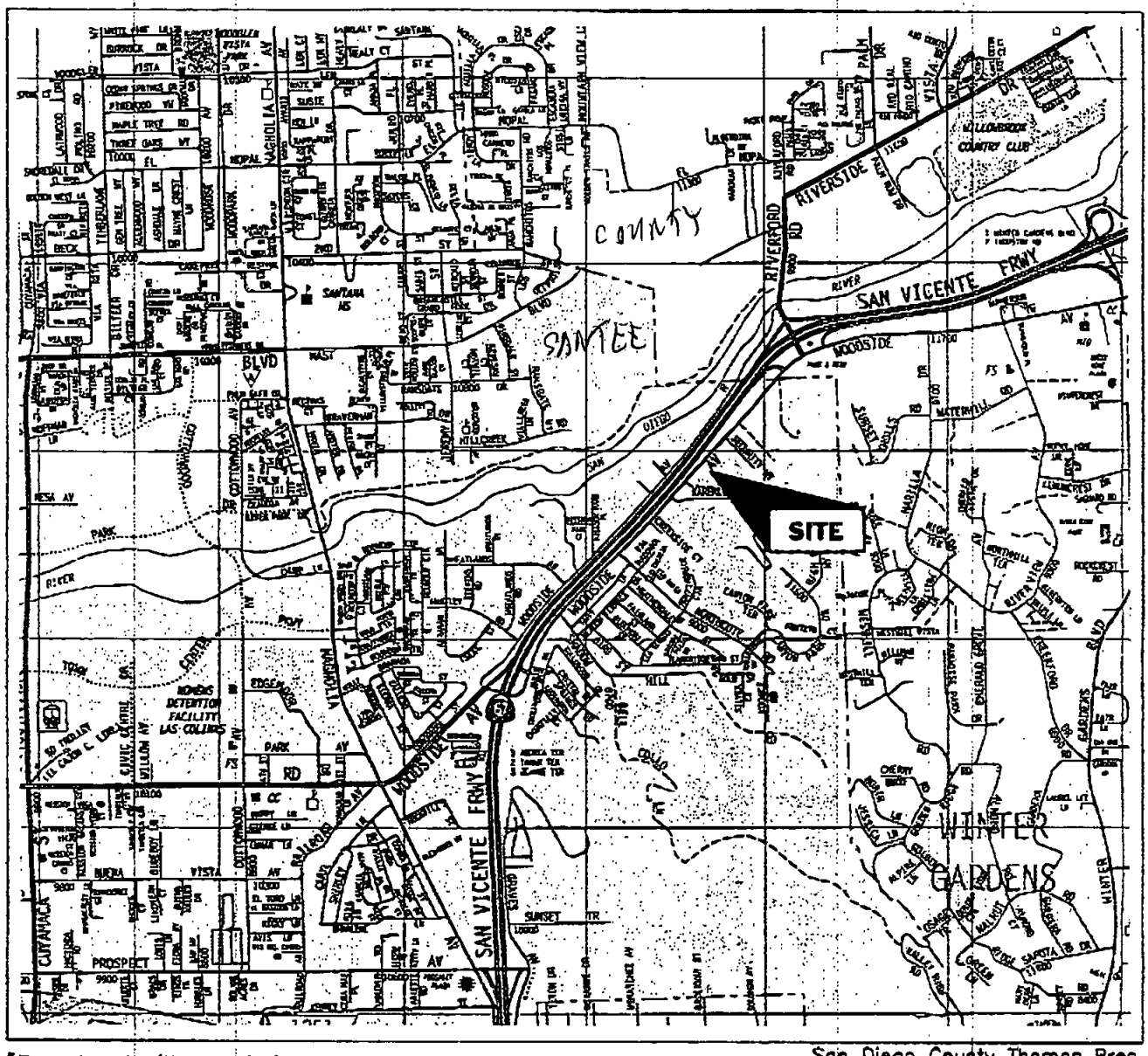
Sincerely,
ENECOTECH SOUTHWEST, INC.

Melissa Novak
Staff Scientist

Michael Gibbs, RG4821
Senior Geologist

cc. Mr. David Felix - SAM

Attachments: Figures 1 and 2



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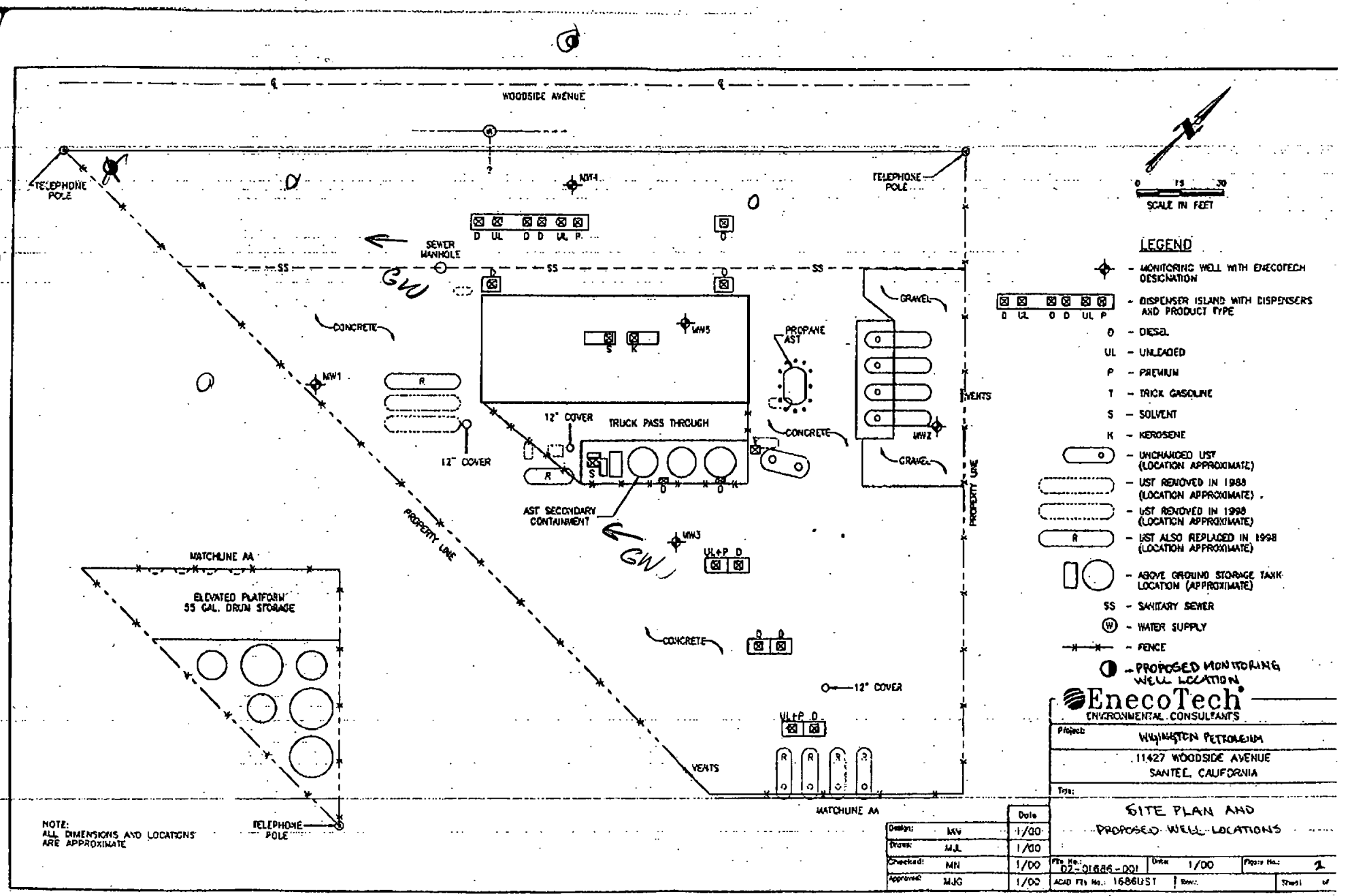
San Diego County Thomas Bros.

Sensitive aquifer in El Monte Basin

EnecoTech
ENVIRONMENTAL CONSULTANTS

Project: WIGINGTON PETROLEUM 11427 WOODSIDE AVENUE SANTEE, CALIFORNIA	SITE LOCATION MAP

File No.: 02-01686-001	ACAD File No.: 1474SLM	Date: 3/98	REV.:	
Drawn By:	Design By:	Checked By: JER	Approved By: JWR	Figure No.: 1



EnecoTech
ENVIRONMENTAL CONSULTANTS

Project: WYNINGTON PETROLEUM
11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: SITE PLAN AND PROPOSED WELL LOCATIONS

		Date
Design:	MW	1/00
Drawn:	MJL	1/00
Checked:	MN	1/00
Approved:	MJG	1/00

Ffs No.: 02-01686-001 | Date: 1/00 | Figure No.: 2
ACAD Ffs No.: 1686UST | Rev.: | Sheet of

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Lic. #A-773774

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D. E. H.
MAILROOM

Project 1686-001

August 22, 2002

Mr. David Felix
County of San Diego, SAM
P.O. Box 129261
San Diego, California 92112-9261

RE: Revised Work Plan for Comprehensive Site Assessment
11427 Woodside Avenue, Santee, California
H19469-001/T0948/APN 382-320-06

Dear Mr. Felix:

EnecoTech Southwest, Inc. (EnecoTech) is pleased to present this work plan to perform a comprehensive site assessment for the subject site located at 11427 Woodside Avenue in Santee, California (Figure 1). This work plan has been prepared in response to a request from the County of San Diego Site Assessment and Mitigation Division (SAM) for additional site assessment of groundwater impact.

The intent of the scope of work detailed in this work plan is to conduct a site assessment in an attempt to fully delineate the impact to soil and groundwater resulting from onsite release(s). The scope of work involves: preparation of this work plan; conducting research into sensitive receptors (wells), tank and piping onsite, access for drilling on offsite properties, and, the possibility of other sources from offsite; obtaining permits for drilling; and, conducting exploratory sampling and groundwater sampling. The exploratory sampling will be conducted in two phases. The intent of this approach is to fully understand the data gained during the first phase (soil sampling and one-time groundwater samples) in order to best apply the work performed in the second phase (placement of permanent groundwater monitoring wells), and to accelerate the site toward remediation (which will be required, since the beneficial use of the groundwater resource has been impaired).

BACKGROUND AND PREVIOUS CHARACTERIZATION

The facility is located on a triangular-shaped parcel approximately 1.15 acres in size and located along Woodside Avenue. The entire property is developed as a fueling facility with underground storage tanks (USTs), above ground storage tanks (ASTs), product dispensers, and packaged petroleum products installed or located in all areas of the site not used for vehicle traffic or site access. The facility serves vehicles from heavy equipment to cars with gasoline and diesel fuel from both card-lock and attendant-controlled dispensers. In addition, petroleum products such as lubricants, solvents, racing fuel, propane, and kerosene are sold in containers or dispensed from ASTs and USTs.

In 1988, a 2,000-gallon capacity gasoline tank was replaced with a 4,000-gallon capacity UST. At that time, an Unauthorized Release was discovered and reported. EnecoTech performed a preliminary site assessment in 1988 in which four monitoring wells were installed. Analysis of groundwater sampled from these wells resulted in measurable levels of petroleum contaminants. In 1998, nine tanks were removed. Soil samples collected were analyzed and gasoline and diesel impact was detected from the soil and groundwater samples.

Wigington Petroleum retained EnecoTech in December 1999 to perform site assessment activities including soil and groundwater sampling for further delineation of impact at the subject site and instaliation of three additional monitoring wells. An additional groundwater sampling of the four existing groundwater wells at the subject site was conducted on April 4 and 5, 2000. Wigington Petroleum is currently a claimant to the Underground Storage Tank Cleanup Fund (Fund) of the State Water Resources Control Board. As claimant, Wigington has received from the Fund a Letter of Commitment indicating the amount of cleanup costs incurred through 1999 that may be eligible for funding. Wigington Petroleum submitted the first reimbursement request to the Fund in July 2000.

Petroleum hydrocarbon impact to groundwater during 1988 was relatively low in samples collected from monitoring wells MW1 through MW4. Results from recent sampling events indicate hydrocarbon concentrations have increased dramatically in those four wells. Hydrocarbon concentrations in monitoring wells MW5 through MW8 are also high. The concentrations of hydrocarbon impact are significant considering that the site is in an area with designated beneficial uses for groundwater, there are municipal water supply production wells within 2 miles, and the San Diego River is approximately 950 feet away. The site has significant impact to both soil and groundwater that extends offsite and past MW8 located adjacent to Highway 67. The main contaminants of concern are benzene and methyl tertiary butyl ether (MTBE); however, high levels of other gasoline constituents and diesel also exist. The primary Maximum Contaminant Level (MCL) for benzene is exceeded in each well. The full extent of impact is unknown.

PROPOSED SCOPE OF WORK

PHASE 1

Phase 1 consists of research, fieldwork, and reporting with the goal of building on the data already obtained to delineate the extent of soil and groundwater impact on and offsite to the degree that permanent wells can be placed (Phase 2) in the most useful locations for monitoring and possible remedial uses. A push-type drill rig will be utilized to place up to 17 borings to obtain soil samples followed by the placement of a temporary well to gauge groundwater depth and obtain groundwater samples. The borings will begin in the source area on site and with subsequent borings being placed radiating outward onto the adjacent properties to the northeast and southwest and onto the CalTrans right-of-way of State Highway 67. Due to the iterative approach planned for placing borings, the number of borings needed to accomplish delineation cannot be known, but is estimated at 17, and the locations indicated on Figure 1 are also estimated only. If less than seventeen are needed, less will be done. As backup to the possible failure of the planned rig obtaining the depth needed, a second type of push rig and/or the use of a hollow stem auger rig is planned.

TASK 1: Meeting with SAM and Preparation and Submittal of Work Plan

EnecoTech met briefly on July 5, 2002, with Mr. David Felix of SAM. The meeting was necessary to assess regulatory expectations for future site assessment, begin forming a site conceptual model, and discuss the 1988 site assessment and the most recent installation of three monitoring wells and groundwater monitoring. The scope of work from the proposal to the client was provided to Mr. Felix for his informal review in order to speed up the work plan process and be able to provide a work plan that could be approved with minimal conditions. EnecoTech spoke with Mr. Felix again on July 31, 2002, at which time he indicated he thought it best that the proposed scope of work be performed in two phases, indicated different boring and well quantities, and made some additional minor remarks. His remarks have been incorporated into this revised proposal and the draft work plan (attached).

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EnecoTech will prepare and submit a work plan to SAM based on the requests of the client, the recommendation of EnecoTech, and the input from SAM. The work plan will contain the scope of work presented in the proposal as submitted to, and agreed upon, by the client.

TASK 2: Research

Research is needed to plan details of the site assessment activities, including: 1) evaluate known risks of impacted groundwater (find all existing wells in the area and identify use); 2) evaluate potential onsite sources of impact; 3) identify best locations for placement of borings and wells on and offsite; 4) identify offsite locations where conditions and property owners will allow borings and/or wells; 5) identify other actual or potential sources in the area; and, 6) confirm/identify tank and piping onsite. This will be accomplished by performing the following:

Existing Well Research (2,250-foot radius): DWR web site search, DWR email manual search request, EDF site search, and SAM inquiries and possibly file review(s);
Tank & Piping Layout (onsite): Review HMMD and APCD files, review any Wright Oil files readily available, interview Dennis Fransway, and provide the results to Linda Wigington in map form to confirm that the findings agree with her recollection;
Property Ownership and Business Use in Area (Approx. one-half mile): Visit County Assessors' office and conduct file search; ortho-topographic map review, MapQuest search, and Polk & Haynes Directory review; and,
Field Well Search and Meet with Property Owners and Facility Managers (2,250 foot radius): Search the area on both sides on State Highway 67 for existing wells and attempt to ascertain ownership, current use, well completion, and age. At the same time, conduct survey with property owners and managers for their willingness to allow site access for boring and/or well placement.

TASK 3: Permits

EnecoTech will obtain well permits for 17 borings from the Department of Environmental Health (DEH). EnecoTech will also obtain a CalTrans encroachment permit to access the CalTrans Highway 67 right-of-way farther northeast and southwest of the subject site and from the southeast to the northwest extent (the width). Based on conversations with CalTrans, the current encroachment permit valid through December 2002 can be extended and expanded for much less effort, cost, and time than obtaining a new permit. A copy of the soil boring log and analytical data will be submitted to SAM following fieldwork to satisfy the requirements of the soil boring/well permit.

TASK 4: Fund Pre-Approval

EnecoTech will produce and submit a pre-approval for reimbursement from the Fund and provide assistance to the Client in obtaining reimbursement for covered costs.

TASK 5: Site Assessment Fieldwork

EnecoTech will set up all subcontractors, arrange for a USA utility location to be performed, and update the site-specific health and safety plan in preparation for the fieldwork. Up to 17 borings will be placed. Although boring locations may change due to utilities, access, and consideration of new data received during the assessment, the planned locations are as follows:

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Seventeen borings: to be placed onsite and offsite (Figure 1) to better evaluate the current state of soil and groundwater impact and provide the basis necessary to develop a remedial plan and design a remediation system. The borings will be advanced using a push-type drilling rig to an approximate depth of 35 feet. Soil sample retrieval will be based on the vertical extent of soil impact expected based on boring location in reference to the onsite source. Therefore, soil samples will be taken over a greater vertical range onsite and decrease in vertical range, and concentrate above and below the capillary fringe, as borings are located further away from the source, for a total of up to ten samples per boring onsite, and as few as three samples from the borings furthest distance from the site. Soil sample collection will also be influenced by screening results from a PID, with more samples taken in areas where PID readings are significant in value and consistent over a vertical range. Once the boring is completed, a ¾-inch diameter PVC temporary well casing will be placed in the boring for less than 24 hours. During the time that the temporary well casing is in place, the depth to water will be measured and a one-time groundwater sample will be retrieved with a small bailer prior to destroying the boring by filling with bentonite chips. A mobile laboratory will be utilized to conduct analysis in the field in order to adjust the number and placement of other borings and wells based on new data.

Borings and Temporary Wells: Each boring will be logged and field observations such as discoloration, odor, and photo-ionization detector (PID) readings will be recorded. Soil and groundwater samples in all borings and wells will be collected using EnecoTech's standard chain of custody procedures and stored in an ice chest for submittal to a California certified laboratory for analysis. The collected samples will be analyzed for full range total petroleum hydrocarbons (TPH) (gasoline through diesel) by EPA Method 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) and MTBE by EPA Method 8260. The analytical soil and groundwater results will be submitted by EnecoTech to the GeoTracker website, as required. Site assessment activities will be performed and boring logs will be reviewed under the supervision of a California Registered Geologist. Generated soil and wash water will be placed in drums and temporarily stored onsite. EnecoTech will arrange for the pick-up, transport, and disposal of waste soil and water generated by the field activities.

TASK 6: Report Preparation

Upon completion of field activities, EnecoTech will produce a report detailing all prior site assessments, current activities, and data collection in accordance with the 2002 SAM Manual Site Assessment Report Checklist. Analytical results will be presented along with an evaluation of the sample results, conclusions, and professional recommendations.

PHASE 2

Phase 2 consists of the placement of permanent wells in the most useful locations for monitoring and possible remedial uses and will be based on the results of Phase 1. A hollow stem auger drill rig will be utilized to place up to nine wells to obtain soil samples, gauge groundwater depth, and obtain groundwater samples. The majority of the wells are expected to be placed offsite. The wells will begin in the source area onsite and with subsequent wells being placed radiating outward onto the adjacent properties to the northeast and southwest, and possibly other nearby private property, and onto the CalTrans right-of-way of State Highway 67. Due to the iterative approach planned for placing these wells, the number of wells needed to accomplish the purposes stated above cannot be known, but is estimated at nine. The locations indicated on Figure 1 are also estimated only. If less than nine wells are needed, less will be done.

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TASK 1: Preparation of Work Plan Update

EnecoTech will prepare and submit a work plan update to SAM indicating the best locations to place permanent wells and identify other changes/clarification in the work to be performed based on the results of Phase 1.

TASK 2: Permits

EnecoTech will obtain well permits for nine wells from the Department of Environmental Health (DEH). EnecoTech will also obtain a CalTrans encroachment permit to access the CalTrans Highway 67 right-of-way farther northeast and southwest of the subject site and from the southeast to the northwest extent (the width). Based on conversations with CalTrans, the current encroachment permit valid through December 2002 can be extended and expanded for much less effort, cost, and time than obtaining a new permit. A copy of the soil boring log and analytical data will be submitted to SAM following fieldwork to satisfy the requirements of the soil boring/well permit.

TASK 3: Site Assessment Fieldwork

EnecoTech will set up all subcontractors, arrange for a USA utility location to be performed, and update the site-specific health and safety plan in preparation for the fieldwork. Up to nine new monitoring wells will be placed. Although boring and well locations may change due to utilities, access, and consideration of new data received during the assessment, the planned locations are as follows:

Nine Additional Monitoring Wells: to be placed in the possible locations indicated on Figure 1. Information from these locations will aid in the evaluation of the current state of soil and groundwater impact, provide the basis necessary to develop a remedial plan and design a remediation system, and evaluate offsite risks and need for offsite remedial action. The borings will be advanced using a hollow stem auger-type drilling rig to an approximate depth of 40 feet. Soil sample retrieval will be based on the vertical extent of soil impact expected based on boring location in reference to the onsite source. Therefore, soil samples will be taken over a greater vertical range onsite and decrease in vertical range, and concentrate above and below the capillary fringe, as borings are located further away from the source, for a total of up to ten samples per boring onsite, and as few as three samples from the borings furthest distance from the site. Soil sample collection will also be influenced by screening results from a PID, with more samples taken in areas where PID are significant in value and consistent over a vertical range. Samples will be collected using a split spoon sampler. Once the boring is completed, wells will be installed with 4-inch diameter casings near the site and 2-inch casings at distant locations from the site. The wells will be developed using a surge block. A mobile laboratory will be used to conduct analysis in the field in order to adjust the number and placement of other borings and wells based on new data.

Borings and Wells: Each well will be logged and field observations such as discoloration, odor, and photo-ionization detector (PID) readings will be recorded. Soil and groundwater samples in all borings and wells will be collected using EnecoTech's standard chain of custody procedures and stored in an ice chest for submittal to a California certified laboratory for analysis. The collected samples will be analyzed for full range total petroleum hydrocarbons (TPH) (gasoline through diesel) by EPA Method 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) and MTBE by EPA Method 8260. EnecoTech will contract with a California-licensed surveyor to locate the new monitoring wells for latitude, longitude, and elevation according to requirements established under AB2886. The survey data and analytical soil and groundwater results will be submitted by EnecoTech to the GeoTracker website, as required. Site assessment activities will be performed and boring logs will be reviewed under the supervision of a California Registered Geologist. Generated soil and wash water will be placed in drums and temporarily stored onsite. EnecoTech will arrange for the pick-up, transport, and disposal of waste soil and water generated by the field activities.

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TASK 4: Groundwater Monitoring

At least 72 hours after installation, EnecoTech will gauge, purge, and sample the new and existing wells according to the procedures described in the current SAM manual. The monitoring wells will be gauged for depth to groundwater and the presence of free phase product. Groundwater samples will be collected using new disposable bailers the same day as purging using EnecoTech's standard chain of custody procedures. Samples will then be stored in an ice chest for submittal to a California certified laboratory for analysis. The collected samples will be analyzed for full range TPH (gasoline through diesel) by EPA Method 8015, and BTEX and MTBE by EPA Method 8260. Analysis will be conducted in the field for oxygen content utilizing portable testing equipment to evaluate the potential rate of biological consumption of the contaminants.

TASK 5: Report Preparation

Upon completion of field activities, EnecoTech will produce a report detailing the results of the monitoring well placement and sampling. Included in the report will be the following comprehensive illustrations: a site map demonstrating all onsite sampling locations and tank and piping layout; a larger scale map identifying all offsite sample locations and surrounding property uses; at least two cross sections approximately perpendicular to one another; and, a large scale map identifying all wells within one-half mile. Analytical results will be presented along with an evaluation of the sample results, conclusions, and professional recommendations.

SCHEDULE

It is anticipated that preparation and submittal of the work plan and obtaining Fund pre-approval will take approximately six weeks. During the time of the pre-approval review by the Fund, the Phase 1 research will be performed, permits obtained, and the fieldwork set up. The soil borings fieldwork should take six days. Laboratory analysis of samples is expected to take ten days. The report of Phase 1 activities should be ready in draft form in approximately six weeks following completion of fieldwork.

For Phase 2, permits will be obtained and the fieldwork set up in approximately three weeks, the well installation fieldwork should take three days. Laboratory analysis of samples is expected to take ten days. The report of Phase 2 activities should be ready in draft form in approximately six weeks following completion of fieldwork.

COMMUNITY HEALTH AND SAFETY PLAN

The subject site is located in a commercially zoned and light industrial area with adjacent property uses varying, but predominately commercial uses and State Highway 67. The area of investigation will be both onsite and offsite on commercial properties and State Highway 67. Based upon the prevailing westerly wind direction, the layout, construction, and location of adjacent buildings, the only persons likely to be affected by this investigation are EnecoTech employees and drilling company employees. The safety of the commercial properties employees and customers will be provided for by excluding them from the work area by the use of barricades and caution tape and directions from the site supervisor. The safety of EnecoTech employees is provided for by policies and procedures in the site safety plan.

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Soil sampling during this phase of investigation will be performed with direct push and hollow-stem auger that will expose minimal amounts of soil potentially impacted with fuel hydrocarbons to the air to release vapors. All soil exposed will be kept contained to minimize the release of vapors. A PID will be onsite for soil screening and monitoring the workspace. If detectable vapors are detected at the limit of the exclusion area, steps will be taken to reduce exposure. These steps include more rapid drumming of soils, the use of plastic sheeting, and/or the use of light water application to reduce volatilization.

Site Safety

A site-specific Health and Safety Plan (Plan) will be prepared and reviewed by all persons working at the site. The Plan will address the health and safety provisions that will be employed during site assessment field activities. The objective of the Plan is to provide procedures designed to minimize exposure to workers and the surrounding community from inhalation, ingestion, and skin contact with potentially hazardous materials that may be encountered during field activities and prevent potentially hazardous materials from becoming airborne or migrating offsite. General safe work practices will be addressed in the Plan. A PID vapor monitor will be onsite for soil screening and monitoring the work area. No detectable vapors will be allowed at the limit of the exclusion area. Underground Service Alert of Southern California, a one-call utility notification service company, will be contacted by EnecoTech, and will, in turn, contact individual utility companies to mark the locations of their utilities.

Drum Disposal

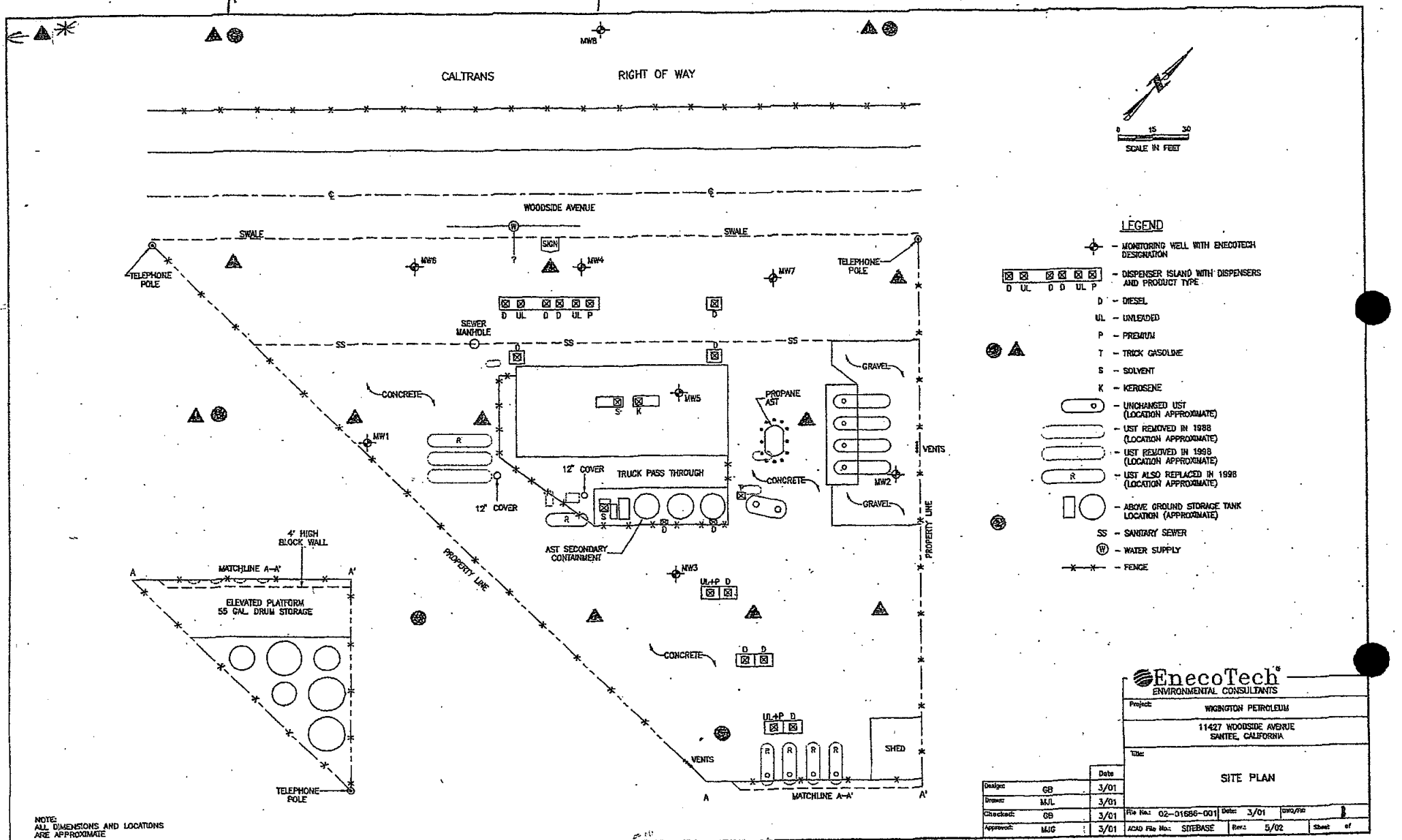
During drilling activities drums will be temporarily stored in the vicinity of each boring/well. Upon completion of each phase of field activities, EnecoTech will arrange for the same-day or next day soil disposal by EFR to an appropriate disposal facility. EnecoTech will meet the licensed hauler at the site to ensure soil and wash water generated by drilling activities are properly removed and the manifests are in order.

Please contact me at (619) 299-0033 or (619) 417-9400 if you have any questions or comments.

Sincerely,
ENECOTECH SOUTHWEST, INC.

Michael J. Gibbs, RG 4821
Senior Geologist

Attachments: Figure 1
Standard Field Procedures



NOTE:
ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

EnecoTech
ENVIRONMENTAL CONSULTANTS

Project:	WIGINGTON PETROLEUM	
	11427 WOODSIDE AVENUE SANTEE, CALIFORNIA	
Title:	SITE PLAN	
Design: GB		Date 3/01
Drawn: MJL		3/01
Checked: GB		3/01
Approved: MJC		3/01
File No.: 02-01686-001	Date: 3/01	Dwg/File
ACAD File No.: SITEBASE	Rev.: 5/02	Sheet of

* Approx. 100-200 feet in direction of arrow.

▲ Proposed Boring (17) ● Proposed well (9)

STANDARD FIELD PROCEDURES

DRILLING AND SOIL SAMPLING

Soil borings are drilled using a direct push or truck mounted hollow stem auger drill operated by a C-57 licensed drilling company. The rigs are equipped with push rods or 8-or 10-inch hollow stem augers. Rods and augers are steam-cleaned between borings to prevent cross contamination, and auger-cleaning rinsate is contained in 55-gallon Department of Transportation (DOT)-approved drums stored near the boring/well.

Soil samples retrieved by the direct push rig collects soil samples in acetate sleeves. Soil samples retrieved by the hollow stem auger rig use a modified split spoon sampler fitted with stainless steel sleeves, driven into the ground with a rig operated safety hammer. Relative penetration resistance is measured by counting the number of hammer blows (blow counts) required to drive the sampler a distance of 18 inches, in 6-inch increments. Blow counts are recorded on boring logs. One stainless steel sleeve from each sampling depth is sealed with Teflon tape, capped, labeled, and placed into an ice chest or refrigerated at 4° Celsius until transported to a state-certified laboratory.

A second stainless steel sleeve from each sampling depth is emptied into a zip-lock plastic bag, which is sealed and gently agitated to facilitate volatilization of organic vapors. A portable photo-ionization detector (PID) is used to measure organic vapor concentrations, which are then recorded on the boring logs. The PID is calibrated with 100-ppm isobutylene prior to beginning fieldwork.

The scientist in the field uses the remaining recovered sample to describe the soil in accordance with the Unified Soil Classification System (USCS). Additionally, a qualitative characterization of contamination is made based upon any observed petroleum hydrocarbon odors and/or soil discoloration. These observations and USCS descriptions are included in the boring logs, which are reviewed by a California Registered Geologist.

All sampling equipment is washed before sampling in an Alconox solution and thoroughly rinsed. Cleaning rinsate and soil cuttings from drilling operations are contained in labeled 55-gallon DOT-approved drums.

Each sample container submitted for analyses has a label affixed with a unique sample name, job name, date sampled, and time of collection. A chain of custody form is used to document sample possession from the time of collection to the time of delivery to the laboratory. When possession of the samples is transferred, the persons relinquishing and receiving possession sign and date the chain of custody form. The sample control officer at the laboratory verifies sample integrity and confirms that the sample is of sufficient quantity for the requested analyses.

WELL CONSTRUCTION AND DEVELOPMENT

Wells are constructed in conformance with the general guidelines of the California Department of Water Resources and the Site Assessment and Mitigation (SAM) Manual according to the site specific permit application that is approved by SAM. In general, wells are constructed with factory-prepared blank and perforated schedule 40 PVC casing, new sand filter pack, bentonite and concrete seals, and traffic rated covers.

Wells are developed during construction by surge block agitation after filter pack installation and installation of the bentonite seal. Surging is applied throughout the length of the perforated section of each well for a period of not less than 10 minutes. No water is added or withdrawn during the development process. In the event that water is not present in the well at the time of installation, the well is developed by hand bailing three borehole volumes prior to sampling.

WELL GAUGING, PURGING, AND SAMPLING

Prior to purging and sampling, static groundwater levels in each monitoring well are measured using colorimetric water sensing paste and a metal tape measure, water level meter, or interface probe. Gasoline sensing paste and a metal tape measure or an interface probe are used to detect and measure any free product.

Fast recharging wells (i.e., recovery of groundwater level is 80% of static condition within 2 hours) are purged of one borehole volume of water (see calculation below) using either a polyethylene bailer or submersible pump. Measurement of pH, temperature, and electrical conductivity are recorded, and purging is continued in one-half borehole volume increments until pH, temperature, and electrical conductivity measurements are stable (i.e., within 10%). Slow recharging wells are purged of one borehole volume and then allowed to recover for 2 hours.

Once purging is complete, each well is allowed to recover to within 80% of its static condition (fast recharging wells only), and a groundwater sample is retrieved using a disposable bailer and stored in approved sample containers appropriate for the analyses to be conducted. Sample containers are examined to assess that no headspace is present, then stored in a chilled ice chest or refrigerated at approximately 4° Celsius until transported to a state-certified laboratory. Cross contamination between wells is avoided by taking a number of precautions including purging and sampling wells in a specific sequence, using disposable or dedicated bailers, and using new gloves and clean equipment for each well.

6160 Fairmount Avenue • Suite A
San Diego, California 92120
Phone No. (619) 299-0033
FAX No. (619) 299-0087

ENECOTECH
Environmental Consultants

FACSIMILE COVER SHEET

If there are any problems with this transmission, please call (619) 299-0033. Please call if you do not receive the number of pages listed below. The contents of this facsimile are confidential. This information should be reviewed only by the person(s) named on this cover sheet. Please forward to addressee immediately. If you have received this transmission in error, please immediately notify us by telephone to arrange for the return of the documents.

TO: Mr. David Felix
SAM

FAX NO.: 338-2315

DATE: 8/8/02
TIME: a.m./p.m.
PRIORITY: X normal
____ URGENT!
PROJECT/BILL GRP NO.: 1686-001
PHASE/TASK: 010
PROPOSAL NO.: _____

FROM: Michael Gibbs
SUBJECT: Work Plan for Wigington #1

Number of pages (Including Cover Sheet): 10

Dave please review the attached work plan.

When you have worked up your response letter please fax to (619) 722-6210, so I can get the Fund pre-approval in right away. You can reach me at the same (fax) number or my cell phone @ (619) 417-9400

Thank you

ORIGINAL TO FOLLOW IN MAIL: __ Yes __ No

EnecoTech ENVIRONMENTAL CONSULTANTS

001
08/08/02 THU 07:01 FAX 619 722 6210

8/12/02 meeting to review W.P. with TVS. I will submit it.

EnecoTech Southwest, Inc.
6160 Fairmount Ave. • Suite A
San Diego, CA 92120
(619) 299-0033 • Fax (619) 299-0087
Lic. #A-773774

EnecoTech
Strategies for Environmental Responsibility

August 2, 2002

Project 1686-001

Mr. David Felix
County of San Diego, SAM
P.O. Box 129261
San Diego, California 92112-9261

RE: Work Plan for Comprehensive Site Assessment
11427 Woodside Avenue
Santee, California
H19469-001/T0948/ APN 382-320-06

Dear Mr. Felix

EnecoTech Southwest, Inc. (EnecoTech) is pleased to present this work plan for to conduct perform a comprehensive site assessment for the subject site located at 11427 Woodside Avenue in Santee, California (Figure 1). This work plan has been prepared in response to a request from the County of San Diego Site Assessment and Mitigation Division (SAM), requesting additional site assessment of groundwater impact.

The intent of the scope of work detailed in this work plan is to conduct a site assessment in an attempt to fully delineate the impact to soil and groundwater resulting from release(s) on site. The scope of work involves: preparation of this work plan; conducting research into sensitive receptors (wells), tank and piping on site, access for drilling on offsite properties, and the possibility of other sources from offsite; obtaining permits form drilling; and, conducting exploratory sampling and groundwater sampling. The exploratory sampling will be conducted in two phases. The intent of this approach is to fully understand the data gained during the first phase (soil sampling and one-time groundwater samples) in order to best apply the work performed in the second phase (placement of permanent groundwater monitoring wells), and to accelerate the site toward remediation (which will be required, since the beneficial use of the groundwater resource has been impaired).

BACKGROUND AND PREVIOUS CHARACTERIZATION

The facility is located on a triangular-shaped parcel approximately 1.15 acres in size and located along Woodside Avenue. The entire property is developed as a fueling facility with underground storage tanks (USTs), above ground storage tanks (ASTs), product dispensers, and packaged petroleum products installed or located in all areas of the site not used for vehicle traffic or site access. The facility serves vehicles from heavy equipment to cars with gasoline and diesel fuel from both card-lock and attendant-controlled dispensers. In addition, petroleum products such as lubricants, solvents, racing fuel, propane, and kerosene are sold in containers or dispensed from ASTs and USTs.

In 1988, a 2,000-gallon capacity gasoline tank was replaced with a 4,000-gallon capacity UST. At that time, an Unauthorized Release was discovered and reported. EnecoTech performed a preliminary site assessment in 1988 in which four monitoring wells were installed. Analysis of groundwater sampled from these wells resulted in measurable levels of petroleum contaminants. In 1998, nine tanks were removed. Soil samples collected were analyzed and gasoline and diesel impact was detected from the soil and groundwater samples.

Wigington Petroleum retained EnecoTech in December 1999 to perform site assessment activities including soil and groundwater sampling for further delineation of impact at the subject site and installation of three additional monitoring wells. An additional groundwater sampling of the four existing groundwater wells at the subject site

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was conducted on April 4 and 5, 2000. Wigington Petroleum is currently a claimant of the Underground Storage Tank Cleanup Fund (Fund) of the State Water Resources Control Board. As claimant, Wigington has received from the Fund a Letter of Commitment indicating the amount of cleanup costs incurred through 1999 that may be eligible for funding. Wigington Petroleum submitted the first reimbursement request to the Fund in July 2000.

Petroleum hydrocarbon impact to groundwater during 1988 was relatively low in samples collected from monitoring wells MW1 through MW4. Results from recent sampling events indicate hydrocarbon concentrations have increased dramatically in those four wells. Hydrocarbon concentrations in monitoring wells MW5 through MW8 are also high. The concentrations of hydrocarbon impact are signifieant considering that the site is in an area with designated beneficial uses for groundwater, there are municipal water supply production wells within 2 miles, and the San Diego River is approximately 950 feet away. The site has significant impact to both soil and groundwater that extends offsite and past MW8 located adjacent to Highway 67. The main contaminants of concern are benzene and methyl tertiary butyl ether (MTBE); however, high levels of other gasoline constituents and diesel also exist. The primary Maximum Contaminant Level (MCL) for benzene is exceeded in each well. The full extent of impact is unknown.

PROPOSED SCOPE OF WORK

PHASE 1

TASK 1: Meeting with SAM and Preparation and Submittal of Work Plan

EnecoTech met briefly on July 5, 2002, with Mr. David Felix of the County of San Diego, Site Assessment and Mitigation Division (SAM). The meeting was necessary to assess regulatory expectations for future site assessment, begin forming a site conceptual model, and discuss the 1988 site assessment and the most recent installation of three monitoring wells and groundwater monitoring. The scope of work from the proposal to the client was provided to Mr. Felix for his informal review in order to speed up the work plan process and be able to provide a work plan that could be approved with minimal conditions. EnecoTech spoke with Mr. Felix again on July 31, 2002, at which time he indicated that he thought it best that the proposed scope of work be performed in two phases, indicated different boring and well quantities, and made some additional minor remarks. His remarks have been incorporated into this revised proposal and the draft work plan (attached).

EnecoTech will prepare and submit a work plan to SAM based on the requests of the client, the recommendation of EnecoTech, and the input from SAM. The work plan will contain the scope of work presented in this proposal as submitted to, and agreed upon, by the client.

TASK 2: Research 2250ft radius

Research is needed to plan details of the site assessment activities, including: 1) evaluate known risks of impacted groundwater (find all existing wells in the area and identify use); 2) evaluate potential onsite sources of impact; 3) identify best locations for placement of borings and wells on and offsite; 4) identify offsite locations where conditions and property owners will allow borings and/or wells; 5) identify other actual or potential sources in the area; and, 6) confirm/identify tank and piping onsite. This will be accomplished by performing the following:

Existing Well Research: DWR web site search, DWR email manual search request, EDF site search, and SAM inquiries and possibly file review(s);
Tank & Piping Layout: Review HMMD and APCD files, review any Wright Oil files readily available, interview Dennis Fransway, and provide the results to Linda Wigington in map form to confirm that the findings agree with her recollection;
Property Ownership and Business Use in Area: Visit County Assessors' office and conduct file search; ortho-topographic map review, MapQuest search, and Polk & Haynes Directory review; and,

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Field Well Search and Meet with Property Owners and Facility Managers: Search the area on both sides on State Highway 67 for existing wells and attempt to ascertain ownership, current use, well completion, and age. At the same time, conduct survey with property owners and managers for their willingness to allow site access for boring and/or well placement. Limit to Cal Trans at this point.

TASK 3: Permits

EnecoTech will obtain well permits for 17 borings from the Department of Environmental Health (DEH). EnecoTech will also obtain a CalTrans encroachment permit to access the CalTrans Highway 67 right-of-way farther northeast and southwest of the subject site and from the southeast to the northwest extent (the width). Based on conversations with CalTrans, the current encroachment permit valid through December 2002 can be extended and expanded for much less effort, cost, and time than obtaining a new permit. A copy of the soil boring log and analytical data will be submitted to SAM following fieldwork to satisfy the requirements of the soil boring/well permit.

TASK 4: Fund Pre-Approval

EnecoTech will produce and submit a pre-approval for reimbursement from the Fund and provide assistance to the Client in obtaining reimbursement for covered costs.

TASK 5: Site Assessment Fieldwork

EnecoTech will set up all subcontractors, arrange for a USA utility location to be performed, and update the site-specific health and safety plan in preparation for the fieldwork. Up to 17 borings will be placed. Although boring locations may change due to utilities, access, and consideration of new data received during the assessment, the planned locations are as follows: Boring locations will be left with marker so they can be searched as wells if necessary

Seventeen borings: to be placed onsite and offsite (Figure 1) to better evaluate the current state of soil and groundwater impact and provide the basis necessary to develop a remedial plan and design a remediation system. The borings will be advanced using a GeoProbe-type drilling rig to an approximate depth of 35 feet. Samples will be retrieved every 5 feet, with two additional samples taken approximately 1 and 2 foot above the capillary fringe and one sample taken approximately 2 feet below the capillary fringe, for a total of ten samples per boring. Once the boring is completed, a temporary well casing will be placed in the boring, the depth to water will be measured, and a one-time groundwater sample will be retrieved prior to destroying the boring by filling with bentonite chips. A mobile laboratory will be utilized to conduct analysis in the field in order to adjust the number and placement of other borings and wells based on new data. how? contaminated soil interval

Borings and Temporary Wells: Each boring will be logged and field observations such as discoloration, odor, and photo-ionization detector (PID) readings will be recorded. Special attention will be made to identify the contact between alluvium and undisturbed granitic bedrock. Two of the above-described borings may be advanced to 60 feet or more if bedrock is not encountered in the 35-foot borings. The additional cost for deeper borings is included in this proposal. Soil sample collection will also be influenced by screening results from a PID, with a goal of obtaining at least three consecutive non-detect readings below the impacted soil. Soil and groundwater samples in all borings and wells will be collected using EnecoTech's standard chain of custody procedures and stored in an ice chest for submittal to a California certified laboratory for analysis. The collected samples will be analyzed for full range total petroleum hydrocarbons (TPH) (gasoline through diesel) by EPA Method 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) and MTBE by EPA Method 8260. EnecoTech will contract with a California-licensed surveyor to locate the new borings for latitude, longitude, and elevation according to requirements established under AB2886. The survey data and analytical soil and groundwater results will be submitted by EnecoTech to the GeoTracker website, as required. Site assessment activities will be performed and boring logs will be reviewed under the supervision of a California Registered Geologist. Generated soil and wash water will be placed in drums and temporarily stored onsite. EnecoTech will arrange for the pick-up, transport, and disposal of waste soil and water generated by the field activities.

called D Carlisle 12:11 pm 8/12/02 N/A surveying for boring locations samples

TASK 6: Report Preparation

Upon completion of field activities, EnecoTech will produce a report detailing all prior site assessments, current activities, and data collection. Included in the report will be the following illustrations: a site map demonstrating all onsite sampling locations and tank and piping layout; a larger scale map identifying all offsite sample locations and surrounding property uses; at least two cross sections approximately perpendicular to one-another; and, a large scale map identifying all wells within one-half mile. Analytical results will be presented along with an evaluation of the sample results, conclusions, and professional recommendations.

PHASE 2

TASK 1: Preparation of Work Plan Update

EnecoTech will prepare and submit a work plan update to SAM indicating the best locations to place permanent wells and identify other changes/clarification in the work to be performed based on the results of Phase 1.

TASK 2: Permits

EnecoTech will obtain well permits for nine wells from the Department of Environmental Health (DEH). EnecoTech will also obtain a CalTrans encroachment permit to access the CalTrans Highway 67 right-of-way farther northeast and southwest of the subject site and from the southeast to the northwest extent (the width). Based on conversations with CalTrans, the current encroachment permit valid through December 2002 can be extended and expanded for much less effort, cost, and time than obtaining a new permit. A copy of the soil boring log and analytical data will be submitted to SAM following fieldwork to satisfy the requirements of the soil boring/well permit.

TASK 3: Site Assessment Fieldwork

EnecoTech will set up all subcontractors, arrange for a USA utility location to be performed, and update the site-specific health and safety plan in preparation for the fieldwork. Up to nine new monitoring wells will be placed. Although boring and well locations may change due to utilities, access, and consideration of new data received during the assessment, the planned locations are as follows:

Nine Additional Monitoring Wells: planned to be placed in the locations indicated on Figure 1. Information from these locations will aid in the evaluation of the current state of soil and groundwater impact, provide the basis necessary to develop a remedial plan and design a remediation system, and evaluate offsite risks and need for offsite remedial action. The borings will be advanced using a hollow stem auger-type drilling rig to an approximate depth of 40 feet with samples retrieved every 5 feet (probably increasing to 10 feet from the site), with two additional samples taken approximately 1 and 2 foot above the capillary fringe and one sample taken approximately 2 feet below the capillary fringe, for a total of seven to eleven samples per boring. Samples will be collected using a split spoon sampler. Once the boring is completed, wells will be installed with 4-inch diameter casings near the site and 2-inch casings at distant locations from the site. The wells will be developed using a surge block. A mobile laboratory will be used to conduct analysis in the field in order to adjust the number and placement of other borings and wells based on new data.

Borings and Wells: Each boring will be logged and field observations such as discoloration, odor, and photo-ionization detector (PID) readings will be recorded. Special attention will be made to identify the contact between alluvium and undisturbed granitic bedrock. Soil sample collection will also be influenced by screening results from a PID, with a goal of obtaining at least three consecutive non-detect readings below the impacted soil. Soil and groundwater samples in all borings and wells will be collected using EnecoTech's standard chain of custody procedures and stored in an ice chest for submittal to a California certified laboratory for analysis. The collected samples will be analyzed for full range total petroleum hydrocarbons (TPH) (gasoline through diesel) by EPA Method 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) and MTBE by EPA Method 8260. EnecoTech will contract with a California-licensed surveyor to locate the new monitoring wells

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for latitude, longitude, and elevation according to requirements established under AB2886. The survey data and analytical soil and groundwater results will be submitted by EnecoTech to the GeoTracker website, as required. Site assessment activities will be performed and boring logs will be reviewed under the supervision of a California Registered Geologist. Generated soil and wash water will be placed in drums and temporarily stored onsite. EnecoTech will arrange for the pick-up, transport, and disposal of waste soil and water generated by the field activities.

TASK 4: Groundwater Monitoring

At least 72 hours after installation, EnecoTech will gauge, purge, and sample the new and existing wells according to the procedures described in the current SAM manual. The monitoring wells will be gauged for depth to groundwater and the presence of free phase product. Groundwater samples will be collected using new disposable bailers the same day as purging using EnecoTech's standard chain of custody procedures. Samples will then be stored in an ice chest for submittal to a California certified laboratory for analysis. The collected samples will be analyzed for full range TPH (gasoline through diesel) by EPA Method 8015, and BTEX and MTBE by EPA Method 8260. Analysis will be conducted in the field for oxygen content and Redox utilizing portable testing equipment to evaluate the potential rate of biological consumption of the contaminants.

TASK 5: Report Preparation

Upon completion of field activities, EnecoTech will produce a report detailing the results of the monitoring well placement and sampling. Included in the report will be the following comprehensive illustrations: a site map demonstrating all onsite sampling locations and tank and piping layout; a larger scale map identifying all offsite sample locations and surrounding property uses; at least two cross sections approximately perpendicular to one-another; and, a large scale map identifying all wells within one-half mile. Analytical results will be presented along with an evaluation of the sample results, conclusions, and professional recommendations.

SCHEDULE

It is anticipated that preparation and submittal of the work plan and obtaining Fund pre-approval will take approximately six weeks. During the time of the pre-approval review by the Fund, the Phase 1 research will be performed, permits obtained, and the fieldwork set up. The soil borings fieldwork should take six days. Laboratory analysis of samples is expected to take ten days. The report of Phase 1 activities should be ready in draft form in approximately six weeks following completion of fieldwork.

For Phase 2, permits will be obtained and the fieldwork set up in approximately three weeks, the well installation fieldwork should take three days. Laboratory analysis of samples is expected to take ten days. The report of Phase 1 activities should be ready in draft form in approximately six weeks following completion of fieldwork.

COMMUNITY HEALTH AND SAFETY PLAN

The subject site is located in a commercially zoned and light industrial area with adjacent property uses varying, but predominately, commercial uses, and State Highway 67. The area of investigation will be both onsite and offsite on commercial properties and State Highway 67. Based upon the prevailing westerly wind direction, the layout, construction, and location of adjacent buildings, the only persons likely to be affected by this investigation are EnecoTech employees and drilling company employees. The safety of the commercial properties employees and customers will be provided for by excluding them from the work area by the use of barricades and caution tape and directions from the site supervisor. The safety of EnecoTech employees is provided for by policies and procedures in the site safety plan.

Soil sampling during this phase of investigation will be performed with direct push and hollow-stem auger that will expose minimal amounts of soil potentially impacted with fuel hydrocarbons to the air to release vapors. All soil exposed will be kept contained to minimize the release of vapors. A PID will be onsite for soil screening and monitoring the workspace. If detectable vapors are detected at the limit of the exclusion area,

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steps will be taken to reduce exposure. These steps include more rapid drumming of soils, the use of plastic sheeting, and/or the use of light water application to reduce volatilization.

Site Safety

A site-specific Health and Safety Plan (Plan) will be prepared and reviewed by all persons working at the site. The Plan will address the health and safety provisions that will be employed during site assessment field activities. The objective of the Plan is to provide procedures designed to minimize exposure to workers and the surrounding community from inhalation, ingestion, and skin contact with potentially hazardous materials that may be encountered during field activities and prevent potentially hazardous materials from becoming airborne or migrating offsite. General safe work practices will be addressed in the Plan. A PID vapor monitor will be onsite for soil screening and monitoring the work area. No detectable vapors will be allowed at the limit of the exclusion area. Underground Service Alert of Southern California, a one-call utility notification service company, will be contacted by EnecoTech, and will, in turn, contact individual utility companies to mark the locations of their utilities.

Drum Disposal

During drilling activities drums will be temporarily stored in the vicinity of each boring/well. Upon completion of each phase of field activities, EnecoTech will arrange for the same-day or next day soil disposal by EFR to an appropriate disposal facility. EnecoTech will meet the licensed hauler at the site to ensure soil and wash water generated by drilling activities are properly removed and the manifests are in order.

Please contact me at (619) 299-0033 or (619) 417-9400 if you have any questions or comments.

Sincerely,
ENECOTECH SOUTHWEST, INC.

Michael J. Gibbs, RG 4821
Senior Geologist

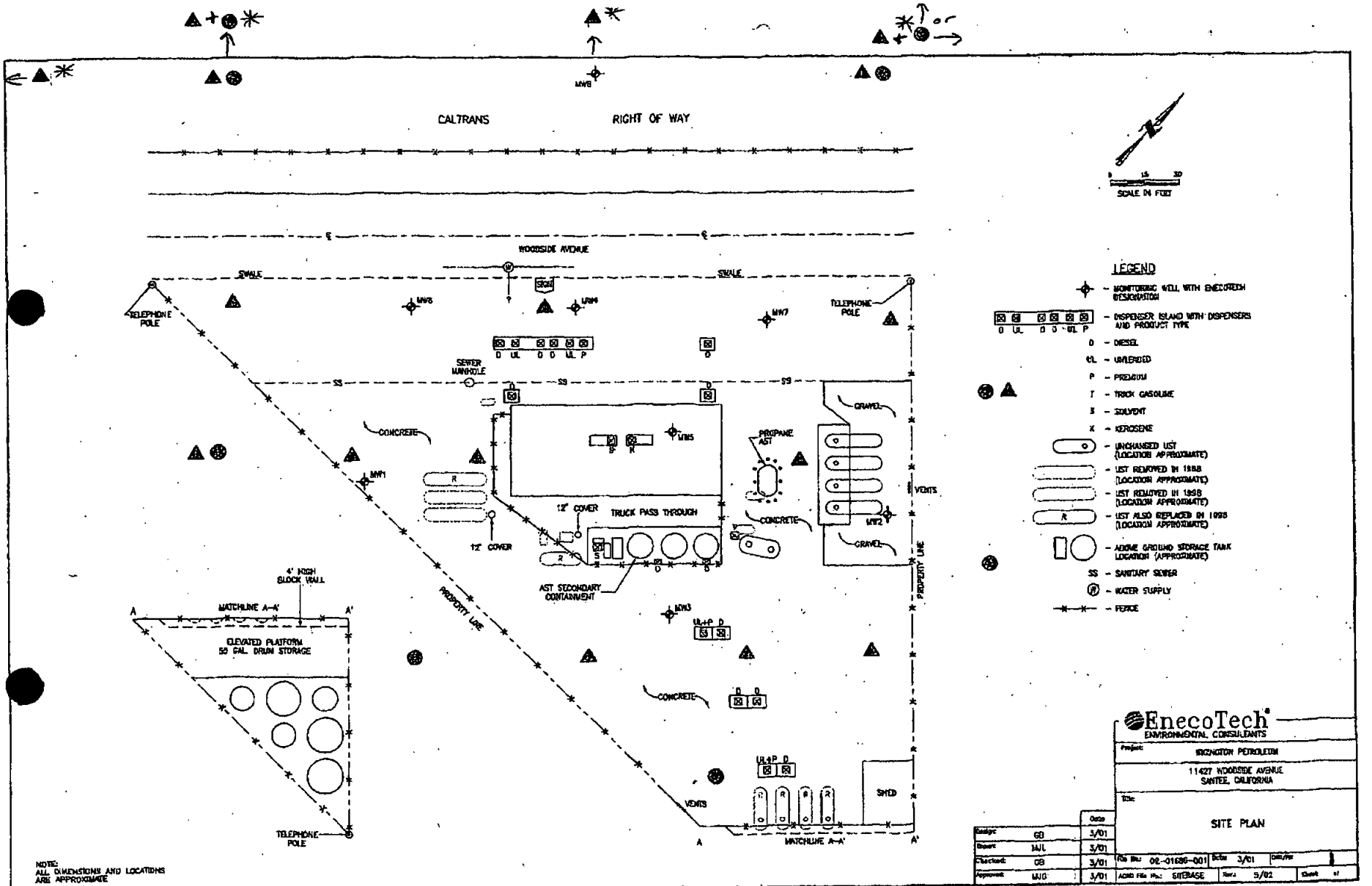
Attachments: Figure 1
Standard Field Procedures

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08/08/02 THU 07:07 FAX 619 722 6210 008



▲ Proposed Boring (17) ● Proposed well (9)

* Approx. 100-200 feet in direction of arrow.

STANDARD FIELD PROCEDURES

DRILLING AND SOIL SAMPLING

Soil borings are drilled using a direct push or truck mounted hollow stem auger drill operated by a C-57 licensed drilling company. The rigs are equipped with push rods or 8-or 10-inch hollow stem augers. Rods and augers are steam-cleaned between borings to prevent cross contamination, and auger-cleaning rinsate is contained in 55-gallon Department of Transportation (DOT)-approved drums stored near the boring/well.

Soil samples retrieved by the direct push rig collects soil samples in acetate sleeves. Soil samples retrieved by the hollow stem auger rig use a modified split spoon sampler fitted with stainless steel sleeves, driven into the ground with a rig operated safety hammer. Relative penetration resistance is measured by counting the number of hammer blows (blow counts) required to drive the sampler a distance of 18 inches, in 6-inch increments. Blow counts are recorded on boring logs. One stainless steel sleeve from each sampling depth is sealed with Teflon tape, capped, labeled, and placed into an ice chest or refrigerated at 4° Celsius until transported to a state-certified laboratory.

A second stainless steel sleeve from each sampling depth is emptied into a zip-lock plastic bag, which is sealed and gently agitated to facilitate volatilization of organic vapors. A portable photo-ionization detector (PID) is used to measure organic vapor concentrations, which are then recorded on the boring logs. The PID is calibrated with 100-ppm isobutylene prior to beginning fieldwork.

The scientist in the field uses the remaining recovered sample to describe the soil in accordance with the Unified Soil Classification System (USCS). Additionally, a qualitative characterization of contamination is made based upon any observed petrolcum hydrocarbon odors and/or soil discoloration. These observations and USCS descriptions are included in the boring logs, which are reviewed by a California Registered Geologist.

All sampling equipment is washed before sampling in an Alconox solution and thoroughly rinsed. Cleaning rinsate and soil cuttings from drilling operations are contained in labeled 55-gallon DOT-approved drums.

Each sample container submitted for analyses has a label affixed with a unique sample name, job name, date sampled, and time of collection. A chain of custody form is used to document sample possession from the time of collection to the time of delivery to the laboratory. When possession of the samples is transferred, the persons relinquishing and receiving possession sign and date the chain of custody form. The sample control officer at the laboratory verifies sample integrity and confirms that the sample is of sufficient quantity for the requested analyses.

WELL CONSTRUCTION AND DEVELOPMENT

Wells are constructed in conformance with the general guidelines of the California Department of Water Resources and the Site Assessment and Mitigation (SAM) Manual according to the site specific permit application that is approved by SAM. In general, wells are constructed with factory-prepared blank and perforated schedule 40 PVC casing, new sand filter pack, bentonite and concrete seals, and traffic rated covers.

Wells are developed during construction by surge block agitation after filter pack installation and installation of the bentonite seal. Surging is applied throughout the length of the perforated section of each well for a period of not less than 10 minutes. No water is added or withdrawn during the development process. In the event that water is not present in the well at the time of installation, the well is developed by hand bailing three borehole volumes prior to sampling.

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WELL GAUGING, PURGING, AND SAMPLING

Prior to purging and sampling, static groundwater levels in each monitoring well are measured using colorimetric water sensing paste and a metal tape measure, water level meter, or interface probe. Gasoline sensing paste and a metal tape measure or an interface probe are used to detect and measure any free product.

Fast recharging wells (i.e., recovery of groundwater level is 80% of static condition within 2 hours) are purged of one borehole volume of water (see calculation below) using either a polyethylene bailer or submersible pump. Measurement of pH, temperature, and electrical conductivity are recorded, and purging is continued in one-half borehole volume increments until pH, temperature, and electrical conductivity measurements are stable (i.e., within 10%). Slow recharging wells are purged of one borehole volume and then allowed to recover for 2 hours.

Once purging is complete, each well is allowed to recover to within 80% of its static condition (fast recharging wells only), and a groundwater sample is retrieved using a disposable bailer and stored in approved sample containers appropriate for the analyses to be conducted. Sample containers are examined to assess that no headspace is present, then stored in a chilled ice chest or refrigerated at approximately 4° Celsius until transported to a state-certified laboratory. Cross contamination between wells is avoided by taking a number of precautions including purging and sampling wells in a specific sequence, using disposable or dedicated bailers, and using new gloves and clean equipment for each well.

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FAX No. (619) 299-0087

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TO: David Felix

FAX NO.: 338-2315

DATE: 7/30/02

TIME: a.m./p.m.

PRIORITY: X normal

____ URGENT!

PROJECT/BILL GRP NO.: 1686-021

PHASE/TASK: _____

PROPOSAL NO.: _____

FROM: Michael Gibbs

SUBJECT: Wigington H19469

Number of pages (Including Cover Sheet): 4

Dave - find attached the scope-of-work that was provided to the client, and that they have approved, in a proposal.

Can you informally review the scope of work and let me know if there is anything that you would no approve in a workplan. Once I hear from you I will complete the workplan and provide it to you. Thank you,

Michael Gibbs

ORIGINAL TO FOLLOW IN MAIL: __ Yes X No

EnecoTech
ENVIRONMENTAL CONSULTANTS

07/30/02 TUE 09:43 FAX 619 722 6210 001

PROPOSED SCOPE OF WORK

TASK 1: Meeting with SAM and Preparation and Submittal of Work Plan

EnecoTech met briefly on July 5, 2002 with Mr. David Felix of SAM in order to discuss possible future site assessment approaches for the site. The meeting was necessary because the agedness of the previous 1988 site assessment and the differences between the data obtained during that assessment versus the data obtained as part of the most recent installation of three monitoring wells and the recent groundwater monitoring.

EnecoTech will prepare and submit work plan to SAM based on the desires of the client, the recommendation of EnecoTech, and the input of SAM. The work plan will contain the scope of work of the proposal submitted to, and agreed upon by, the client.

TASK 2: Research

Research is needed in order to plan the details of the site assessment activities, including: evaluate known risks of impacted groundwater (find all existing wells in area and identify use); evaluate potential on site sources of impact; identify best localities for placement of borings and wells on and off site; identify off site localities where conditions and property owners will allow borings and/or wells; identify other actual or potential sources in the area; and, confirm/identify tank and piping on site. This will be accomplished by performing the following:

Existing Well Research: DWR web site search; DWR e-mail manual search request; EDF site search; and SAM inquiries and possibly file review(s).

Tank & Piping Layout: Review HMMD & APCD files; review any Wright Oil files readily available; interview Dennis Fransway; and provide to Linda Wigington to confirm that the findings agree with her recollection.

Property Ownership and Business Use in Area: County Assessors' office visit and search; ortho-topographic map review; MapQuest search; and Polk & Haynes Directory review.

Field Well Search and Meet with Property Owners and Facility Managers: Search the area on both sides on State highway 67 for existing wells and attempt to ascertain ownership, current use, and well completion and age. At the same time survey property owners and managers for their willingness to allow site access for boring and/or well placement.

TASK 3: Permits

EnecoTech will obtain well permits for 9 borings and 11 wells from the DEH. EnecoTech will obtain a CalTrans encroachment permit to access farther northeast and southwest of the subject site and from the southeast to the northwest extent (the width) of the CalTrans right-of-way. Based on conversations with CalTrans, the current encroachment permit, valid through December 2002 can be extended and expanded for much less effort, cost and time than obtaining a new permit. A copy of the soil boring

log and analytical data will be submitted to SAM following fieldwork to satisfy the requirements of the soil boring/well permit.

TASK 4: Fund Pre-Approval

EnecoTech will produce and submit a pre-approval for reimbursement from the State Water Resources Control Board (SWRCB) and provide assistance to the Client in obtaining reimbursement for covered costs.

2 PHASES

TASK 5: Site Assessment Field Work

EnecoTech will set up all subcontractors, arrange for a USA utility location to be performed, and update the site-specific health and safety plan in preparation for the fieldwork. Up to nine borings and 11 new monitoring wells will be placed. Although boring and well locations may change due to utilities, access, and consideration of new data received during the assessment, the planned locations are as follows:

wherever needed

Nine borings: to be placed ~~on site~~ (Figure 1) to better evaluate the current state of soil and groundwater impact and to provide the basis necessary to develop a remedial plan and design a remediation system. The borings will be advanced using a GeoProbe-type drilling rig to an approximate depth of 35 feet. ~~Samples will be retrieved every 5 feet, with 2 additional~~ samples taken approximately 1 and 2 foot above the capillary fringe and 1 sample taken approximately 2 feet below the capillary fringe, for a total of 10 samples per boring. Once the boring is completed, a temporary well casing will be placed in the boring, the depth to water measured, and a one-time groundwater sample retrieved prior to destroying the boring by filling with bentonite chips. A mobile laboratory will be utilized to conduct analysis in the field in order to adjust the number and placement of other borings and wells based on new data.

MW TO 17

CONTINUOUS

Define DEPTH OF THICK CONT. SOIL

Based UP TO 9 on

RELOCATE R BPT

Eleven Additional Monitoring Wells: planned to be placed in the following locations - 1 on site in the southeast portion of the property; 2 on the adjacent property to the south; 2 on the adjacent property to the northeast; 6 in the Caltrans right-of-way, 1 northeast of MW8, 2 southwest of MW8, and 3 either between the north and south bound lanes or on the northwest side of the freeway (Figure 1). Information from these locations will aid in the evaluation of the current state of soil and groundwater impact and to provide the basis necessary to develop and a remedial plan and design a remediation system, and evaluate off site risks and need for offsite remedial action. The borings will be advanced using a hollow stem auger type drilling rig to an approximate depth of 40 feet with samples retrieved every 5 feet (probably increasing to 10 feet with distance from the site), with 2 additional samples taken approximately 1 and 2 foot above the capillary fringe and 1 sample taken approximately 2 feet below the capillary fringe, for a total of 7 to 11 samples per boring. Samples will be collected using a split spoon sampler. Once the boring is completed, a well will be installed with 4-inch diameter casings near the site and 2 inch casings away from the site. The well will then be developed utilizing a surge

block. A mobile laboratory will be utilized to conduct analysis in the field in order to adjust the number and placement of other borings and wells based on new data.

General Regarding the Borings and Wells

Each boring will be logged and field observations such as discoloration, odor, and photo-ionization detector (PID) readings recorded. Special attention will be made to identify the contact between alluvium and undisturbed granitic bedrock. Two of the above described borings may be advanced to 60 or more if bedrock is not encountered in the 35 and 40 foot borings. The additional cost for deeper borings would be in addition to the costs outlined in this proposal. Soil samples collection will also be influenced by the screening results from a PID, with a goal of obtaining at least three consecutive non-detect readings at depth. Soil and groundwater samples in all borings and wells will be collected using EnecoTech's standard chain of custody procedures and stored in an ice chest for submittal to a California certified laboratory for analysis. The collected samples will be analyzed for full range TPH (gas through diesel) by EPA Method 8015, and BTEX and MTBE by EPA Method 8260. EnecoTech will contract with a California-licensed surveyor to locate the new monitoring wells for latitude, longitude, and elevation according to requirements established under AB2886. The survey data and analytical soil and groundwater results will be submitted by EnecoTech to the GeoTracker website, as required. Site assessment activities will be performed and boring logs will be reviewed under the supervision of a California Registered Geologist. Generated soil and wash water will be placed in drums and temporarily left onsite. EnecoTech will arrange for the pick-up, transport and disposal of waste soil and water generated by the field activities.

NO

TASK 6: Groundwater Monitoring

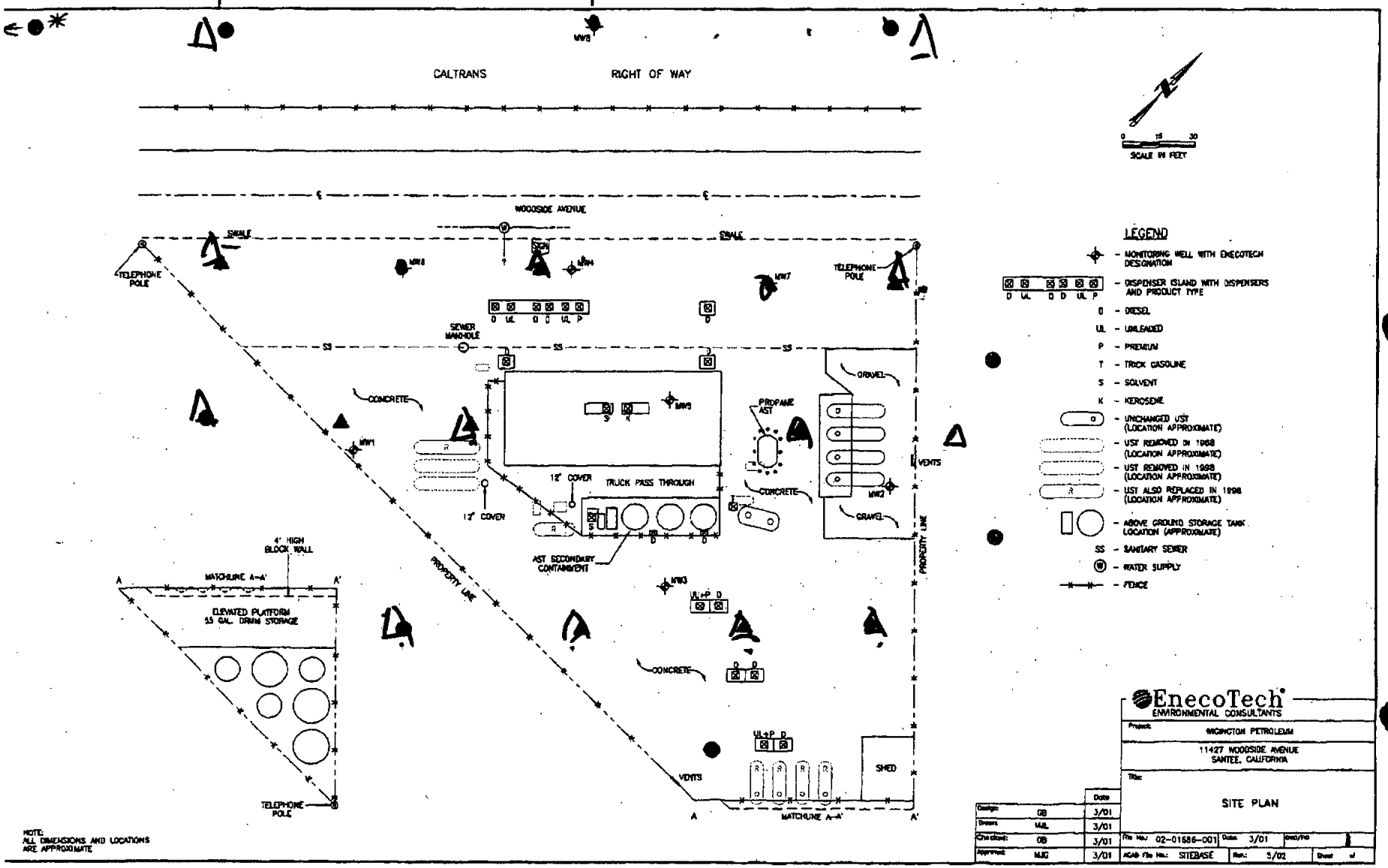
At least seventy-two hours after installation, EnecoTech will gauge, purge and sample the new and existing wells according to the procedures described in the current SAM manual. The monitoring wells will be gauged for depth to groundwater and the presence of free phase product. Groundwater samples will be collected utilizing a new disposable bailer the same day as purging using EnecoTech's standard chain of custody procedures and stored in an ice chest for submittal to a California certified laboratory for analysis. The collected samples will be analyzed for full range TPH (gas through diesel) by EPA Method 8015, and BTEX and MTBE by EPA Method 8260. Analysis will be conducted in the field for oxygen content and Redox utilizing portatble testing equipment to evaluate the potential rate of biological comsumption of the contaminants.

TASK 7: Report Preparation

Upon completion of field activities, EnecoTech will produce a report detailing all prior site assessments, current activities, and data collection. Included in the report will be the following illustrations: a site map illustrating all sampling locations and tank and piping layout; a larger scale map identifying all offsite sampling locations and surrounding property uses; at least 2 cross sections approximately perpendicular to one-another; and, a large scale map identifying all wells within one half mile. Analytical results will be presented along with an evaluation of the sample results, with conclusions and professional recommendations.

passing through the area of highest soil contam.

follow SAM MANUAL DETERMINE OBJECT



* Approx. 100-200 feet in direction of arrow.

▲ Proposed Boring

● Proposed Well

17

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002

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Environmental Consultants

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TO: Mr. Dave Felix
SLO

DATE: 6/24/02

PROJECT NO.: 1686-001
PHASE/TASK: BG007
PROPOSAL NO.:

FROM: Michael Gibbs

SUBJECT: El Capitan/Wilmington Petroleum

Copies	Date	Document No.	Description
1	6/21/02		Additional Site Assessment

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Thanks

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MAILROOM

ADDITIONAL SITE ASSESSMENT
Wigington Petroleum
11427 Woodside Avenue
Santee, California
T0948/H19469-001/APN 382-320-06

Prepared for:

Ms. Linda Wigington
P.O. Box 2504
Spring Valley, CA 92077

Cc: Mr. David Felix - SAM

Prepared by:

ENECOTECH SOUTHWEST, INC.
6160 Fairmount Avenue, Suite A
San Diego, California 92120

Project No. 1686-001 (BG007)
June 21, 2002

Michael J. Gibbs, RG 4821
Senior Geologist

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1.0 INTRODUCTION

EnecoTech Southwest, Inc. (EnecoTech) is pleased to present this report regarding site assessment activities performed at the subject site located at 11427 Woodside Avenue, Santee, California (Figure 1). Services consisted of developing a work plan, placing three borings, retrieving soil samples, installing three groundwater monitoring wells, surveying wells, and sampling groundwater at the subject site. These activities were performed based on correspondence with the County of San Diego, Department of Environmental Health, Site Assessment and Mitigation Division (SAM). EnecoTech has been retained by Wigington Petroleum (Client) to provide environmental consulting services for the subject site. This document summarizes the environmental activities conducted at the subject site.

2.0 BACKGROUND AND PREVIOUS CHARACTERIZATION

2.1 General

The facility is located on a triangular-shaped parcel (Figure 2) approximately 1.15 acres in size and located along Woodside Avenue. The associated County identification numbers are T0948/H19469-001/APN 382-320-06. The site terrain is gently sloping from the southeast triangle point of the property, northwest toward Woodside Avenue. The entire property is developed as a fueling facility with underground storage tanks (USTs), above ground storage tanks (ASTs), product dispensers, and packaged petroleum products installed or located in all areas of the site not used for vehicle traffic or site access. The facility serves vehicles from heavy equipment to cars with gasoline and diesel fuel from both card-lock and attendant-controlled dispensers. In addition, petroleum products such as lubricants, solvents, racing fuel, propane, and kerosene are sold in containers or dispensed from ASTs and USTs.

2.2 Previous Assessment

Wigington Petroleum sold El Capitan Oil Company to Bill Wright (Buy Wright Oil) in 1987. Mr. Wright had four USTs removed in 1988. Soil sample results of up to 1,300 mg/kg total extractable hydrocarbons (TEH) and 65 mg/kg benzene were identified. At that time, an Unauthorized Release was reported. Mr. Wright was directed to initiate site assessment in a letter dated March 22, 1988, from the County of San Diego Hazardous Materials Management Division (HMMD). The Unauthorized Release Report dated April 18, 1988, was submitted to the HMMD.

EnecoTech performed a preliminary site assessment in 1988 when eleven borings/four monitoring wells were placed. Boring soil samples indicated total petroleum hydrocarbons as gasoline (TPHg) levels of up to 440 mg/kg and non-detectable benzene levels. Analysis of groundwater sampled from these wells resulted in measurable levels of TEH, benzene, toluene, and xylenes (Table 3a). During the course of this investigation, a well was discovered within the main structure at the facility in the office area. A thorough search of State engineer's records and State well permits was conducted, but no as-built or historic information was found at that time. The well is 12" diameter, cement-cased with an initially measured total depth of 35.4 feet, but has since been measured to be at least 70 feet deep. Static water was initially measured at 27.9 feet. An appreciable amount of free-floating product was initially observed in the well. The results of the findings were presented in the report "Environmental Assessment at 11427 Woodside Avenue, Santee, California", dated August 3, 1988. On November 18, 1988, HMMD issued a letter agreeing with the recommendations of the EnecoTech report and establishing cleanup levels for groundwater.

In 1989, Mr. Wright filed bankruptcy, at which time the bankruptcy trustee took control of the property. In 1991, Wigington Petroleum regained possession of the property, and regained control of it in 1994.

In October 1997, single-walled product piping was removed. Soil samples retrieved indicated total petroleum hydrocarbons as diesel (TPHd) levels of up to 115,444 mg/kg and TPHg levels of up to 3,043 mg/kg.

In March of 1998, EnecoTech was retained by a third party to aid in an environmental evaluation of the property by a potential buyer. As part of the evaluation, the five wells onsite were sampled and analyzed by Del Mar Analytical. The results indicated elevated concentrations of TPHg and TPHd, benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) and are reported on Table 3a and Appendix D.

In April 1998, nine tanks were removed under HMMD permit AT4031. Soil samples collected from eight of the nine tank pits were analyzed by Mobile One Laboratory and had concentrations of up to 23,000 mg/kg TPHd, 840 mg/kg TPHg, 0.12 mg/kg benzene, and 3.7 mg/kg MTBE (Appendix B). Wigington Petroleum had groundwater samples from monitoring wells MW1 and MW3 analyzed by Pacific Treatment Analytical (Table 3a and Appendix D) in May 28, 1998, for delineation of diesel and gasoline impact. TPHg and TPHd were detected in the soil and groundwater samples.

Wigington Petroleum retained EnecoTech in December 1999 to perform site assessment including soil and groundwater sampling for further delineation of impact at the subject site. EnecoTech's "Work Plan for Environmental Services" dated March 14, 2000, for the purpose of installing two groundwater wells, was submitted to Mr. David Felix of SAM (SAM assumed the responsible oversight of UST assessment and mitigation, formerly the responsibility of the HMMD, in mid-1993). Due to the time lapse since the wells were installed, Mr. Felix requested an additional groundwater sampling of the four existing groundwater wells at the subject site first to determine the most efficient course of action before approving the work plan. EnecoTech submitted the "Addendum to the Work Plan" dated March 20, 2000, to Mr. Felix that specified tasks for groundwater sampling.

The groundwater sampling event occurred on April 4 and 5, 2000, and the samples were analyzed by Del Mar Analytical. Based on the laboratory results from Del Mar Analytical, Mr. Felix directed in his letter dated May 8, 2000, the installation of four additional wells, instead of two, and a groundwater monitoring event after installation of the new wells. EnecoTech responded with "Addendum 2 to the Work Plan for Environmental Services" dated May 26, 2000, explaining that one of the four wells to be installed would have to be delayed since approval of the adjacent property owner had not been attained. The "Addendum 2 to the Work Plan" was approved in SAM letter dated June 5, 2000, from Mr. Felix.

Wigington Petroleum is currently a claimant of the Underground Storage Tank Cleanup Fund (Fund) of the State Water Resources Control Board. As claimant, Wigington has received from the Fund a Letter of Commitment.

2.3 Geology

The facility is located on unconsolidated Quaternary colluvial (slope wash) and alluvial deposits. These deposits unconformably overlie Cretaceous age granitic composition bedrock of the California Batholith (Kennedy and Peterson 1972). The top of the granitic composition bedrock is typically highly weathered to an undetermined depth.

2.4 Hydrogeology

The site appears to be located in Unit 7.12, the Santee Hydrologic Sub Area (HSA), as defined by the San Diego Region Basin Plan produced by the San Diego RWQCB. The Santee HSA is identified as having existing beneficial uses of groundwater for municipal, agricultural, and industrial purposes. Surface water in the area has existing beneficial use for industrial purposes, and potential use for municipal purposes. The unconfined, unconsolidated aquifer associated with the San Diego River valley is utilized for limited domestic, agricultural, and industrial demands. Recharge to the unconsolidated aquifer occurs by direct precipitation and infiltration, run-off infiltration and from springs and underground recharge from crystalline rocks. The San Diego River is located approximately 950 feet northwest of the site.

3.0 SOIL INVESTIGATION AND FIELD ACTIVITIES

3.1 SOIL SAMPLING

On February 26, 2001, EnecoTech supervised the installation of two borings (to be converted to monitoring wells) as approved in the work plan. EnecoTech had originally planned to place a total of three borings (to be converted to monitoring wells) onsite. One boring/monitoring well was to be placed approximately 60 feet northeast of the dispenser island. The second boring/monitoring well was to be placed approximately 60 feet southwest of the dispenser island. The third boring/monitoring well was to be placed across Woodside Avenue on the open grassy median of CalTrans State Highway 67 right-of-way. The boring/well that was originally proposed to be placed on CalTrans property was not installed due to saturated ground caused by recent rains resulting in the driller's refusal to enter the area for fear of the drill rig getting stuck.

THF Drilling, Inc. performed drilling operations using a hollow stem auger drill rig to install the remaining two borings/wells. Utility locations and site characteristics influenced the specific location of borings/monitoring wells MW6 and MW7. MW6 and MW7 were advanced to 42 feet below ground surface (bgs). Soil samples were taken every five feet.

MW6 was placed in the parking lot approximately 60 feet southwest of MW4. The first 6 inches of MW6 was concrete. Below the concrete, the soil was a dark brown, damp, loose, fine sand to 15 feet bgs. From 15 feet bgs to 20 feet bgs, the soil consisted of very dark gray, wet, loose, clayey sands with slight petroleum hydrocarbon odor. From 20 feet bgs to 42 feet bgs the soil consisted of very dark gray, wet, loose, fine sands with slight petroleum hydrocarbon odor, which became saturated and displayed a moderate petroleum hydrocarbon odor at the water table at approximately 29 feet bgs.

MW7 was placed in the parking lot approximately 80 feet northeast of MW4. In order to prevent potential cross contamination, drilling equipment was steam cleaned between borings. The first 6 inches of MW7 was concrete. Below the concrete, the soil was a dark brown, damp, loose, fine sand to 15 feet bgs. From 15 feet bgs to 20 feet bgs was a very dark gray, wet, loose, clayey sand. From 20 feet bgs to the end of the boring at 42 feet bgs the soil was a dark brown, wet, loose, fine sand, with slight petroleum hydrocarbon odor. The soil became saturated at the water table approximately 29 feet bgs.

From a total of 16 soil samples collected, the six samples with the highest PID readings were selected for analysis. Soil samples were analyzed for TPHg, BTEX, and MTBE by EPA method 8015/8020. Any positive results for MTBE were confirmed by EPA method 8260B.

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In March of 2001, Mr. Jim Wigington was tragically killed in an auto accident. Jim was EnecoTech's main contact for the work being performed. Although the two wells noted above were placed as planned, plans to put in the third well and complete the site assessment work detailed in the work plan were placed on hold while Ms. Linda Wigington grieved, adjusted to running all the families' business affairs, and came up to speed on the status of the work with which EnecoTech had been tasked. In March 2002, Linda gave EnecoTech the go ahead to resume and complete the tasked work.

On April 19, 2002, the final boring/well was installed. WestHazMat Drilling, Inc. performed drilling operations using a hollow stem auger drill rig to install the remaining boring/well. MW8 was advanced to 40.5 feet bgs. Soil samples were taken every five feet for the first 25 feet, then at intervals of 0.5 foot to 3 feet in order to fully understand the contamination characteristics at the capillary fringe.

MW8 was placed across Woodside Avenue in a grassy median adjacent to the southwest shoulder of the CalTrans State Highway 67 right-of-way, approximately 90 feet northwest of MW4. The first soil encountered was a moderate yellowish brown, damp, loose, fine to coarse sand to 4 feet bgs. From 4 feet bgs to 18 feet bgs, the soil consisted of dark yellowish brown, damp, loose, fine to coarse sand with no petroleum hydrocarbon odor. From 18 feet bgs to 40.5 feet bgs, the soil consisted of dusky or yellowish brown to grayish black damp to saturated, loose, fine to coarse sands with slight to very strong petroleum hydrocarbon. Very high PID readings were noted from 34 to 40.5 feet bgs.

A site map indicating the location of all existing wells is included as Figure 2. The boring/well logs are included in Appendix A. EnecoTech field procedures are included as Appendix C.

3.1.1 Site Geology

The following descriptions are a compilation of materials encountered throughout the site assessment efforts. The geology at the facility consists of alluvial interbedded with colluvial material transported and deposited via stream flow and slope wash (shed off the hillside to the southeast). These materials have been deposited unconformably on granitic bedrock, which displays weathering.

Alluvial material consisted of angular, fine to medium sands with occasional increases in grain size to very coarse sand with scattered gravels to two inches diameter. Classification based on the United Soil Classification Scheme (USCS) ranges from SW, SP, and SC to GP. Based on local topography, the majority of the alluvial material originated from drainages to the southeast, which are minor, first order tributaries of the San Diego River to the north. Granitic bedrock was encountered in some of the 1988 borings, and may have been encountered in MW6, MW7, and MW8. It is poorly distinguished from the overlying alluvium, but tends to be coarser.

3.2 SOIL ANALYTICAL RESULTS

Soil samples were analyzed for TPHg, BTEX, and MTBE by EPA Method 8021. Positive MTBE results were confirmed by EPA Method 8260. Samples from the three borings indicate levels of up to 5,900 mg/kg for TPHg, 11 mg/kg for benzene, and 0.14 for MTBE. Laboratory results have been compiled in Table 1 and indicated on Figure 3. The laboratory report and chain of custodies are included in Appendix B.

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3.3 MONITORING WELL INSTALLATION

On February 26, 2001, EnecoTech supervised the construction of two additional groundwater monitoring wells in the borings that had been placed. On April 19, 2002, EnecoTech supervised the construction of one additional groundwater monitoring well in the boring that had been placed. On April 26, 2002, all nine wells onsite were surveyed by Southern California Survey (L.S. 6165) for latitude, longitude, and elevation per current Electronic Data Former (EDF) requirements.

Ten properly labeled Department of Transportation (DOT) approved 55-gallon drums of soil and wash water generated by MW6 and MW7 drilling activities were temporarily stored on site. On February 28, 2001, these 10 drums were transported by EFR Environmental Services, Inc. (EFR) to Dome Rock Industries, Inc. (DR) 3125 West Dome Rock Road, Quartzsite, Arizona 85346. Three properly labeled Department of Transportation (DOT)-approved 55-gallon drums of soil and wash water generated by MW8 drilling activities were temporarily stored on site. On April 25, 2002, these three drums were also transported by EFR to DR. One drum of water generated during groundwater monitoring was transported by EFR to DR on September 14, 2002. A copy of the non-hazardous waste manifests is included as Appendix F.

3.3.1 Site Hydrogeology

Groundwater is generally found in the alluvium at a depth of 27 to 32 feet below ground surface (bgs). The indicated direction of groundwater flow and gradient has varied from west at 0.0008 in May 1988, to northwest and 0.01 in March 1998, to 0.03 and north in April 2000, and to southwest and 0.005 in April 2002. This is highly variable especially considering that all the gauging was performed in the same season (spring).

3.4 GAUGING, PURGING, AND SAMPLING

On April 26, 2002, the monitoring wells were gauged for depth to groundwater and the presence of free phase product. No free phase product was detected. Groundwater samples were collected the same day.

The samples were analyzed at a California state-certified laboratory for TPHd, TPHg, BTEX, and MTBE. Groundwater samples collected from MW4 and MW5 were analyzed for oxygenates di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), tert-butanol (TBA), and MTBE.

Approximately 183 gallons of purge water collected during this event were placed into labeled drums onsite. A summary of the well gauging, purging, and sampling procedures is provided in the Standard Field Procedures (Appendix C) along with EnecoTech's well gauging forms, purging forms, and well construction details.

3.5 GROUNDWATER ELEVATIONS

Groundwater elevations have been relatively consistent in MW1 through MW4 since 1988. The most recent data was processed with the EDF level survey that was performed (Appendix E). Cumulative groundwater elevation data is presented in Table 2. Groundwater elevation data from this monitoring event is presented on Figure 4. The data indicates a general flow direction to the southwest, with a gradient that ranges from approximately 0.005 to 0.001.

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3.6 GROUNDWATER ANALYTICAL RESULTS

The following is a summary of the groundwater data from the latest sampling event. Comparisons are made for MW 1 through MW5 with maximum past concentrations. Elevated concentrations of TPHd, TPHg, BTEX, and MTBE were indicated in all wells. The highest TPHd was 190,000 ug/l in MW3, which was also the highest ever recoded on site. The highest TPHg was 25,000 µg/l in MW6, which was also the highest ever recoded onsite. The highest benzene was 5,300 µg/l in MW6, which was also the highest ever recoded onsite. The highest MTBE was 2,600 µg/l (by EPA 8260) in MW2, while the highest ever was 3,500 µg/l, also in MW2. Besides MTBE, the only other oxygenate indicated was 500 µg/l TBA in MW2 and 1,200 µg/l in TBA in MW3.

Analytical results are displayed on Figure 5, summarized in Tables 3a and 3b, and the laboratory report is included as Appendix D.

4.0 IMPACTED SOIL AND DISCUSSION

Soil impact has been found to exist over much of the site as tanks and product lines have been removed and assessment borings placed. The initial 1988 assessment of eleven borings did not indicate high levels of refined petroleum product constituents, but rather, values well below those indicated from the 1988 removal of four USTs. Soil samples taken during the removal of product piping and nine additional USTs indicated high values for diesel and gasoline. Soil samples taken during the most recent installation of three borings/wells indicate relatively high values for gasoline, benzene, and MTBE, given that the locations of the borings are relatively far from current USTs, product line and dispensers, and from previous USTs removed. Also, the indicated vertical extent of soil impact in MW8 (33 to 38.5 feet bgs) is surprising, considering the distance from known or potential sources, and may be the result of variations in the groundwater table in the area.

5.0 IMPACTED GROUNDWATER AND DISCUSSION

Groundwater impact during 1988 was light in MW1 through MW4. Since then, concentrations have increased dramatically in those four wells. Concentrations in MW5 through MW8 are also high. When the last two events (2000 and 2002) are compared, concentrations have increased in MW3 and MW4. Concentrations have remained similar in MW1, MW2, and MW5. MW6 through MW8 have only been sampled once.

Groundwater concentrations are significant considering that the site is in a designated beneficial use area, there are municipal production wells within 2 miles, and the San Diego River is approximately 950 feet away.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The site has significant impact to both soil and groundwater. The impact to both also extends offsite and past MW8. The main contaminants of concern are benzene and MTBE; however, high levels of gasoline constituents and diesel also exist. The full extent of impact is unknown, and the primary Maximum Contaminant Level (MCL) for benzene is exceeded in each well.

Based on the findings of the site assessment efforts, with increased weight applied to the more recent data, EnecoTech recommends the following:

Additional sire assessment efforts should be performed to include:

- Research all wells existing within the area, to include a physical search. Identify use of wells.
- Sample any wells in the area and analyze for TPHd, TPHg, BTEX, and MTBE.
- Obtain permission from property owners to drill on adjacent and nearby properties.

Once the above is completed:

- Place additional borings and temporary well points or permanent wells. The effort and intent should be such that full delineation of soil and groundwater impact would be achieved. EnecoTech estimates that this effort may take 5 days in the field with one or two drill rigs and may also incorporate the use of soil vapor survey equipment. Borings and/or wells would need to be placed offsite to the south, to the northeast, and to the northwest, west, and southwest on the CalTrans Highway 67 northeast shoulder, and, if indicated, possibly in the center divide and northwest shoulder. The assessment would be performed with a mobile laboratory so that data would be forthcoming to influence additional boring and well placements.
- Additional delineation is also needed onsite in order to understand the contaminant source and nature and to aid in the design of a site-specific remediation system.

7.0 REFERENCES

California Regional Water Quality Control Board, San Diego Region, September 8, 1994, Water Quality Control Plan for the San Diego Basin (9).

EnecoTech Inc., August 3, 1988, Environmental Assessment at 11427 Woodside Avenue, Santee, California.

Kennedy, M.P. and Peterson, G.L., 1977, Geology of the San Diego Metropolitan Area: California Division of Mines and Geology, Bulletin 200.

FIGURES



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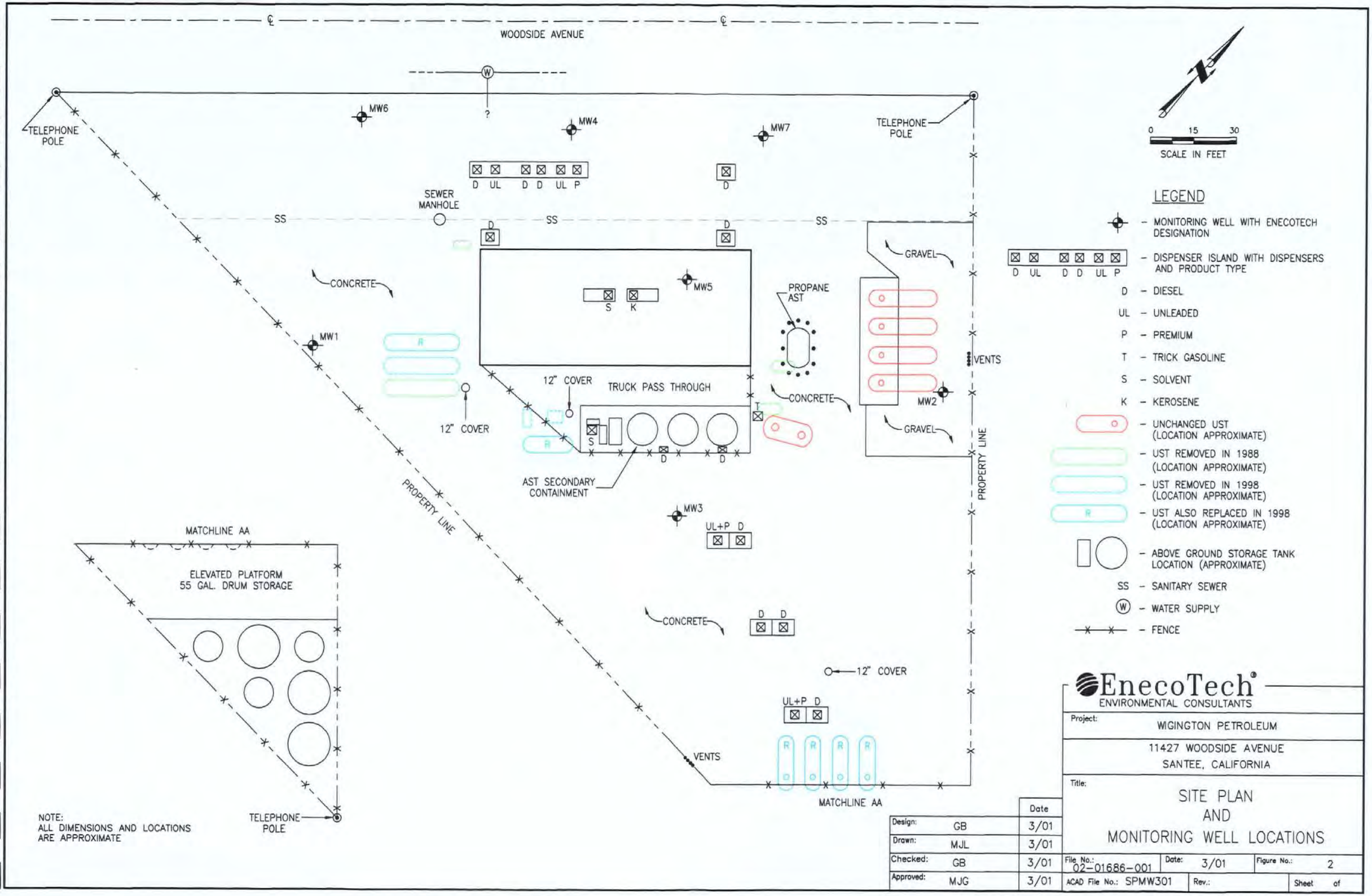
WIGINGTON

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

SITE LOCATION MAP

File No.:	ACAD File No.:	Date:	Rev.:
02-01686-001	FIG1	5/2002	

Drawn By:	Design By:	Checked By:	Approved By:	Figure. No.:
		MJG	MJG	1



NOTE:
ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

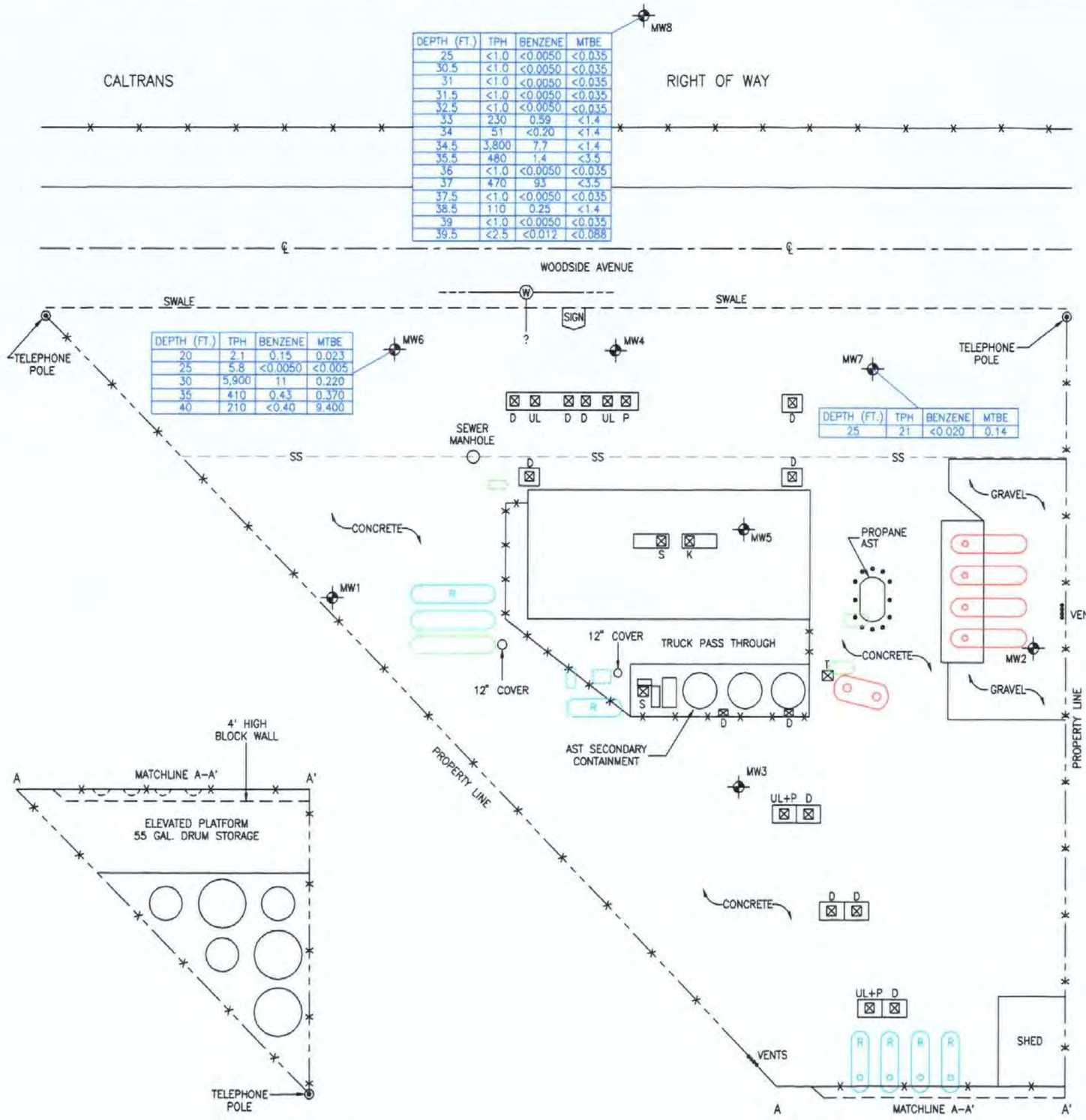
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Project:
WIGINGTON PETROLEUM
11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title:
SITE PLAN
AND
MONITORING WELL LOCATIONS

		Date
Design:	GB	3/01
Drawn:	MJL	3/01
Checked:	GB	3/01
Approved:	MJG	3/01

File No.: 02-01686-001 | Date: 3/01 | Figure No.: 2
ACAD File No.: SPMW301 | Rev.: | Sheet of



NOTE:
ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE



LEGEND

- MONITORING WELL WITH ENECOTECH DESIGNATION
- D UL D D UL P – DISPENSER ISLAND WITH DISPENSERS AND PRODUCT TYPE
- D – DIESEL
- UL – UNLEADED
- P – PREMIUM
- T – TRICK GASOLINE
- S – SOLVENT
- K – KEROSENE
- UNCHANGED UST (LOCATION APPROXIMATE)
- UST REMOVED IN 1988 (LOCATION APPROXIMATE)
- UST REMOVED IN 1998 (LOCATION APPROXIMATE)
- UST ALSO REPLACED IN 1998 (LOCATION APPROXIMATE)
- ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- SS – SANITARY SEWER
- (W) – WATER SUPPLY
- FENCE
- CONCENTRATIONS IN mg/kg

DEPTH (FT.) | TPH | BENZENE | MTBE
25 | 21 | <0.0020 | 0.14

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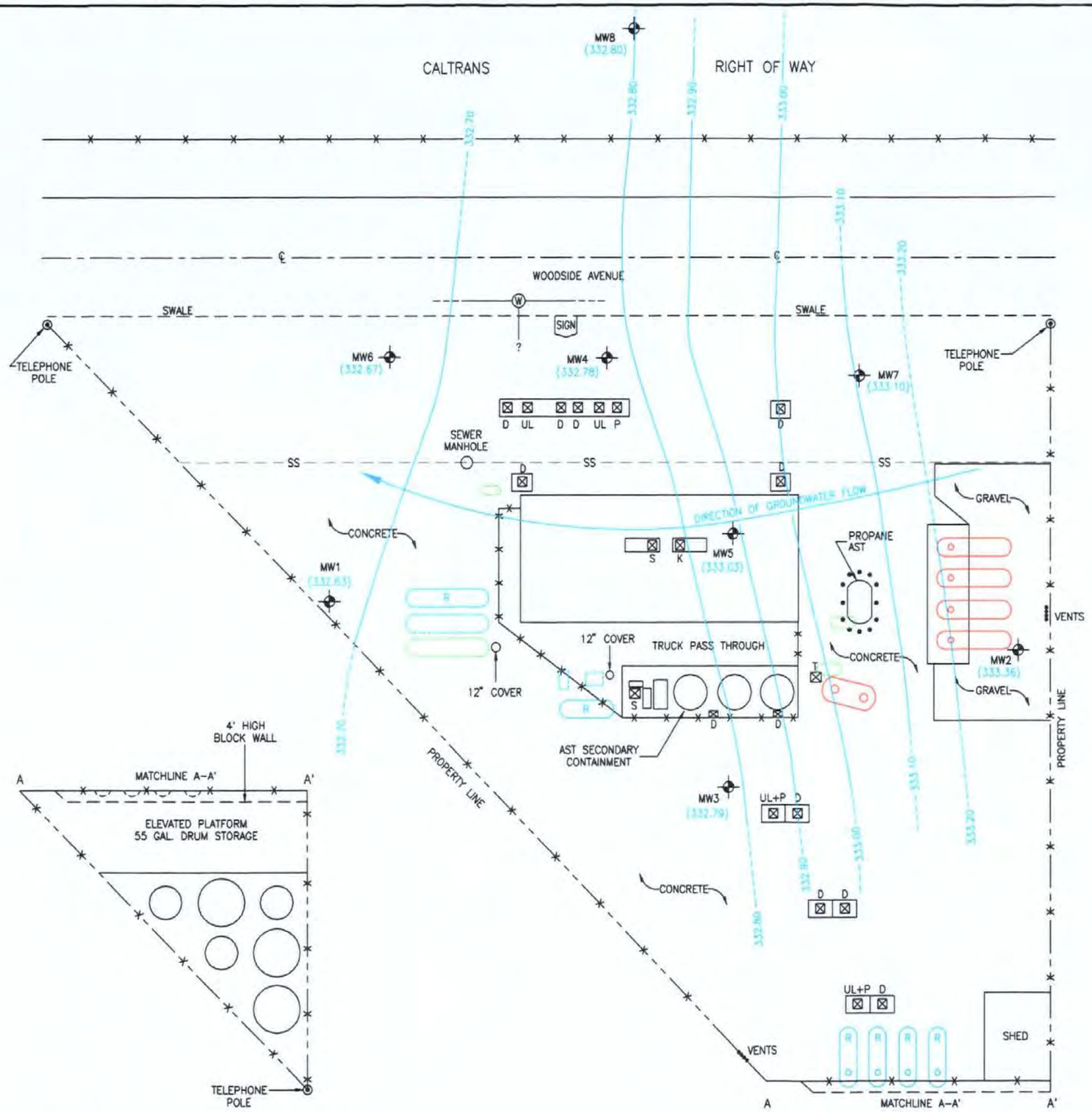
Project: WIGINGTON

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: SOIL SAMPLE RESULTS

		Date
Design:	MJG	5/01
Drawn:	MJL	5/01
Checked:	MJG	5/01
Approved:	MJG	5/01

File No.: 02-01686-001 | Date: 3/01 | DWG/FIG 3
ACAD File No.: TPHBENMTBE | Rev.: 5/02 | Sheet of



NOTE:
ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

0 15 30
SCALE IN FEET

LEGEND

- MONITORING WELL WITH ENECOTECH DESIGNATION
- D UL D D UL P – DISPENSER ISLAND WITH DISPENSERS AND PRODUCT TYPE
- D – DIESEL
- UL – UNLEADED
- P – PREMIUM
- T – TRICK GASOLINE
- S – SOLVENT
- K – KEROSENE
- UNCHANGED UST (LOCATION APPROXIMATE)
- UST REMOVED IN 1988 (LOCATION APPROXIMATE)
- UST REMOVED IN 1998 (LOCATION APPROXIMATE)
- R – UST ALSO REPLACED IN 1998 (LOCATION APPROXIMATE)
- ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- SS – SANITARY SEWER
- (W) – WATER SUPPLY
- FENCE
- 332.70 – GROUNDWATER ELEVATION CONTOUR
- (332.80) – MEASURED GROUNDWATER ELEVATION

NOTE: MW5 NOT UTILIZED FOR CONTOURS

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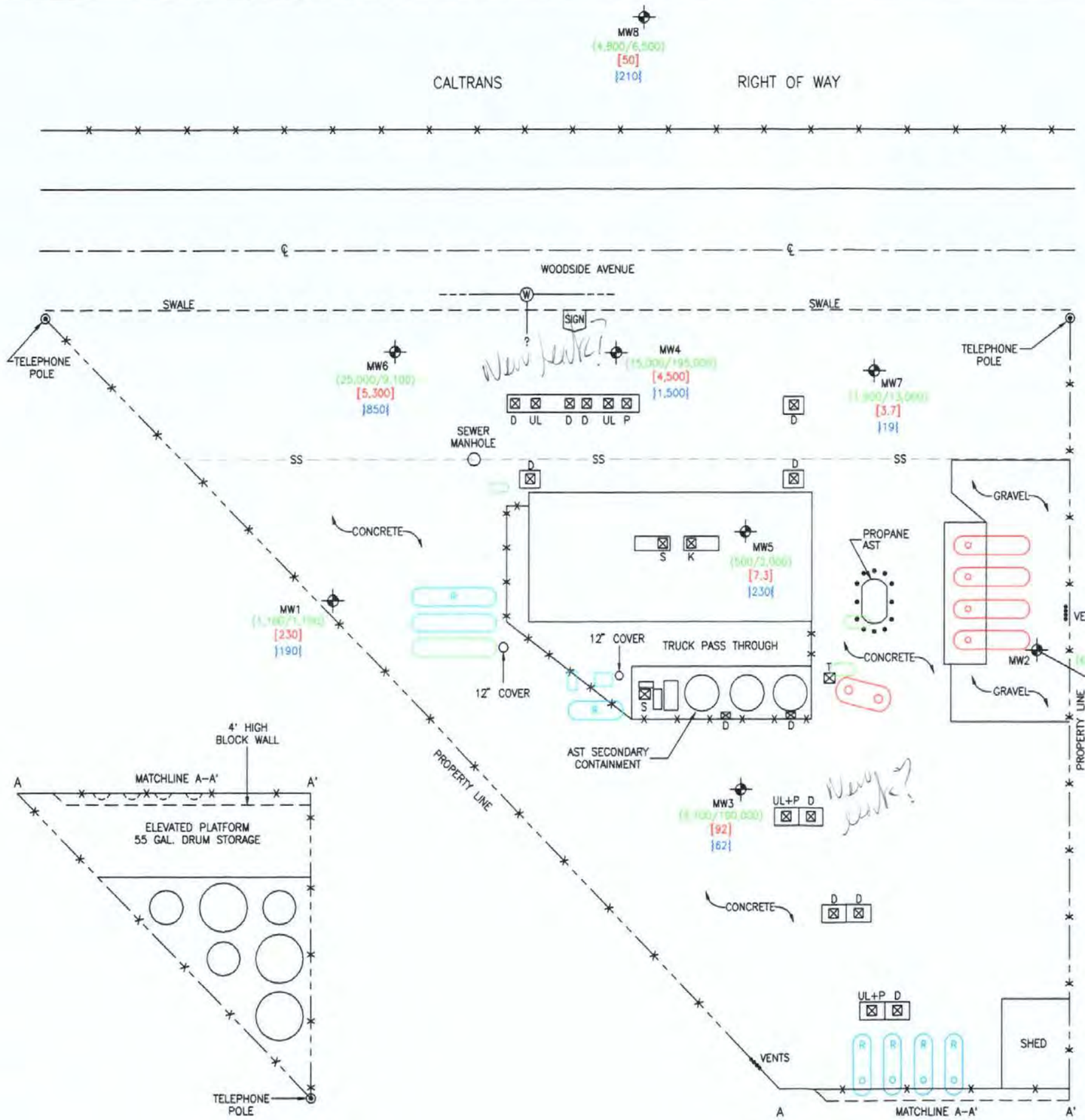
Project: WIGINGTON

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: GROUNDWATER ELEVATIONS (4/2002)

		Date
Design:	MJG	5/02
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Approved:	MJG	5/02

File No.: 02-01686-001 | Date: 3/01 | DWG/FIG 4
ACAD File No.: GW402 | Rev.: 5/02 | Sheet of



NOTE:
ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

0 15 30
SCALE IN FEET

LEGEND

- ⊕ – MONITORING WELL WITH ENECOTECH DESIGNATION
- ⊠ ⊠ ⊠ ⊠ ⊠ ⊠ – DISPENSER ISLAND WITH DISPENSERS AND PRODUCT TYPE
  - D UL D D UL P
- D – DIESEL
- UL – UNLEADED
- P – PREMIUM
- T – TRICK GASOLINE
- S – SOLVENT
- K – KEROSENE
- ○ – UNCHANGED UST (LOCATION APPROXIMATE)
- R – UST REMOVED IN 1988 (LOCATION APPROXIMATE)
- R – UST REMOVED IN 1998 (LOCATION APPROXIMATE)
- R – UST ALSO REPLACED IN 1998 (LOCATION APPROXIMATE)
- ○ – ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- SS – SANITARY SEWER
- Ⓦ – WATER SUPPLY
- ×—×— – FENCE
- (6,000/160,000) – TPHg/TPHd CONCENTRATIONS (ug/l)
- [9.2] – BENZENE CONCENTRATION (ug/l)
- {3,100} – MTBE CONCENTRATION (ug/l)

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Project: WIGINGTON

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: GROUNDWATER SAMPLE RESULTS (4/2002)

		Date
Design:	MJG	5/02
Drawn:	MJL	5/02
Checked:	MJG	5/02
Approved:	MJG	5/02

File No.: 02-01686-001 | Date: 3/01 | DWG/FIG 5
ACAD File No.: GWBENMTBE | Rev.: 5/02 | Sheet of

TABLES

TABLE 1: Soil Analytical Data
TABLE 2: Groundwater Elevation and Free Product Thickness
TABLE 3a: Groundwater Analytical
TABLE 3b: Groundwater Analytical - Oxygenates

TABLE 1: Soil Analytical Data (mg/kg)
Wigington

Sample ID	EPA 8015 TPHg	EPA 8021				EPA 8021/8260 MTBE
		Benzene	Toluene	Ethylbenzene	Xylenes	
MW6-20'	2.1	0.15	0.0059	0.015	0.11	0.046/0.023
MW6-25'	5.8	<0.0050	<0.0050	0.0057	0.13	0.051/<0.005
MW6-30'	5,900	11	93	80	540	<800/-
MW6-35'	410	0.43	7.7	4.3	29	<40/-
MW6-40'	210	<0.40	0.73	2.0	17	<2.8/-
MW7-25'	21	<0.020	<0.020	<0.020	0.060	0.14/-
MW8-25'	<1.0	<0.0050	<0.0050	<0.0050	0.015	<0.035/-
MW8-30.5'	<1.0	<0.0050	<0.0050	<0.0050	0.015	<0.035/-
MW8-31'	<1.0	<0.0050	<0.0050	<0.0050	0.015	<0.035/-
MW8-31.5'	<1.0	<0.0050	<0.0050	<0.0050	0.015	<0.035/-
MW8-32.5'	<1.0	<0.0050	<0.0050	<0.0050	0.015	<0.035/-
MW8-33'	230	0.59	0.39	0.79	2.1	<1.4/-
MW8-34'	51	<0.20	<0.20	<0.20	<0.60	<1.4/-
MW8-34.5'	3,800	7.7	3.5	29	55	<14/-
MW8-35.5'	480	1.4	1.5	1.8	2.9	<3.5/-
MW8-36'	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.035/-
MW8-37'	470	0.93	0.69	2.7	3.4	<3.5/-
MW8-37.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.035/-
MW8-38.5'	110	0.25	<0.20	0.75	1.0	<1.4/-
MW8-39'	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.035/-
MW8-39.5'	<2.5	<0.012	<0.012	<0.012	<0.038	<0.088/-

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TABLE 2: Groundwater Elevation and Free Product Thickness

Well ID	Date Measured	Well Casing Elevation (feet msl)[1]	Depth to Groundwater (feet)	Groundwater Elevation[2] (feet msl)	Free Product Thickness (feet)
MW1	5/25/88	363.90	28.73	335.17	
	3/10/98		27.03	336.87	
	4/5/00		29.62	334.28	
	4/26/02	362.84	30.21	332.63	
MW2	5/25/88	365.40	30.03	335.37	
	3/10/98		28.75	336.65	
	4/5/00		32.23	333.17	
	4/26/02	365.08	31.72	333.36	
MW3	5/25/88	366.07	30.83	335.24	
	3/10/98		28.25	337.82	
	4/5/00		36.65	329.42	
	4/26/02	364.16	31.37	332.79	
MW4	5/25/88	362.90	27.68	335.25	
	3/10.98		26.46	336.44	
	4/5/00		29.98	332.92	
	4/26/02	362.38	29.60	332.78	
MW5	3/10/98	NA	27.50	NA	
	4/26/02	363.42	30.39	333.03	
MW6	4/26/02	362.44	29.77	332.67	
MW7	4/26/02	362.57	29.47	333.10	
MW8	4/26/02	364.51	31.71	332.80	

Well ID	Date Measured	Well Casing Elevation (feet msl)	Depth to Groundwater (feet)	Groundwater Elevation[2] (feet msl)	Free Product Thickness (feet)

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TABLE 3a: Groundwater Analytical

Well ID	Date Sampled	EPA 418.1 TEH	DHS TPHg	DHS TPHd	EPA 8020 Benzene µg/l	EPA 8020 Toluene µg/l	EPA 8020 Ethylbenzene µg/l	EPA 8020 Xylenes µg/l	EPA 8020 MTBE µg/l	EPA 8260 MTBE µg/l	Lead mg/l
MW1	5/25/88	0.6			0.7	<0.5	-	<0.05			
	3/10/98		2,500	910	340	200	18	240	190		
	5/18/98		115	<500	326	89.5	<50.0	<100	<50.0		
	4/5/00		1,800		250	14	34	380	190	200	
	4/26/02		1,100	1,100	230	14	36	220	190		
MW2	5/25/88	<0.5			<0.5	<0.5	-	<0.5			
	3/10/98		330	<500	20	3.3	25	47	53		<0.0050
	4/4/00		7,600		7.6	3.3	30	59	3,400	3,500	
	4/26/02		6,000	160,000	9.2	3.9	16	17	3,100	2,600	
MW3	5/25/88	140			19	3.4	-	1.3			
	3/10/98		2,300	5,100	3.6	0.70	0.70	4.1	2,000		
	5/18/98		704	<500	98.5	<12.5	<12.5	<12.5	226		
	4/4/00		420		18	1.7	3.9	12	230	190	
	4/26/02		9,700	190,000	92	<3.0	56	62		590	
MW4	5/25/88	6.3			<0.5	<0.5	-	<0.5			
	3/10/98		9,600	3,700	2,400	250	50	430	4,100		<0.0050
	4/5/00		8,700		1,800	<12	110	790	1,300	900	
	4/26/02		15,000	95,000	4,500	150	450	1,900	1,500	1,500	
MW5	3/10/98		730	1,700	20	0.60	<0.30	39	92		
	4/26/02		500	2,000	7.3	1.7	2.8	6.8	230		
MW6	4/26/02		25,000	9,100	5,300	1,400	1,200	5,900	850		
MW7	4/26/02		1,900	13,000	3.7	1.1	4.0	7.9	19		
MW8	4/26/02		4,800	6,500	50	9.2	170	210	64		

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TABLE 3b: Groundwater Analytical - Oxygenates

Well ID	Date Sampled	Oxygenates EPA 8260B				
		DIPE µg/l	ETBE µg/l	MTBE µg/l	TAME µg/l	TBA µg/l
MW2	4/26/02	<40	<40	2,600	<40	500
MW3	4/26/02	<100	<100	<50	<100	1,200
MW4	4/26/02	<100	<100	1,500	<100	<1,200

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APPENDIX A

Boring Logs

EnecoTech Southwest
6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

KEY TO BORING LOGS

Moisture

(Modified from USDA Handbook No 18)

TERM	DRY	DAMP	MOIST	WET	SATURATED
Relative Moisture Content	Equal to Ambient Air	Slightly Moist	Between Damp and Field Capacity	Approximately Field Capacity	Above Field Capacity

Relative Density

(ASTM D-1586)

SANDS, GRAVELS AND NON-PLASTIC SILTS	BLOWS/FOOT*
VERY LOOSE	0 - 4
LOOSE	4 - 10
MEDIUM DENSE	10 - 30
DENSE	30 - 50
VERY DENSE	OVER 50

CLAYS AND PLASTIC SILTS	BLOWS/FOOT*
SOFT	0 - 4
FIRM	4 - 8
STIFF	8 - 16
VERY STIFF	16 - 32
HARD	OVER 32

*Number of blows of 140 pound hammer falling 30 inches to drive a 2 inch O.D. (1-3/8 inch I.D.) split spoon (ASTM D-1586)

Unified Soil Classification System

(ASTM D-2487)

MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAME
COARSE-GRAINED SOILS More than half of material is larger than no. 200 sieve size	GRAVELS More than half of coarse fraction is larger than No. 4 sieve size.	Clean Gravels	GW	Well-graded gravels, gravel-sand mixtures little or no fines.
			GP	Poorly graded gravels, gravel-sand mixtures, little or no fines.
		Gravels with Fines	GM	Silty gravels, gravel-sand-silt mixtures.
			GC	Clayey gravels, gravel-sand-clay mixtures.
	SANDS More than half of coarse fraction is smaller than No. 4 sieve size.	Clean Sands	SW	Well-graded sands, gravelly sands, little or no fines.
			SP	Poorly graded sands, gravelly sands, little or no fines.
		Sands with Fines	SM	Silty sands, sand-silt mixtures.
			SC	Clayey sands, sand-clay mixtures.
FINE-GRAINED SOILS More than half of material is smaller than no. 200 sieve size	SILTS and CLAYS	Low Liquid Limit	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts, with slight plasticity.
			CL	Inorganic clays of low to medium plasticity gravelly clays, sandy clays, silty clays, lean clays.
			OL	Organic silts and organic silty clays of low plasticity.
		High Liquid Limit	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays.
			OH	Organic clays of medium to high plasticity, organic silts.
Highly Organic Soils			Pt	Peat and other highly organic silts.

NOTES:
1. Boundary Classification: Soils possessing characteristics of two groups are designated by combinations of group symbols. For example, GW-GC, well-graded gravel-sand mixture with clay binder.
2. All sieve sizes on this chart are U.S. Standards.
3. The terms "silt" and "clay" are used respectively to distinguish materials exhibiting lower plasticity from those with higher plasticity. The minus No. 200 sieve material is silt if the liquid limit and plasticity index plot below the "A" line on the plasticity chart, and is clay if the liquid limit and plasticity index plot above the "A" line on the chart.

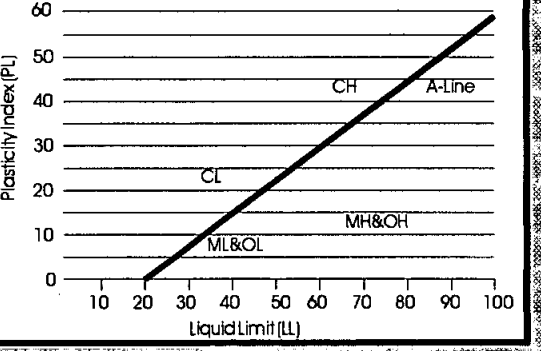
Grain-Size Scale

(ASTM Standards D422-63; D643-78)

GRADE LIMITS mm	GRADE LIMITS inches	U.S. Standard Sieve Series	GRADE NAME
305	12.0		Boulders
76.2	3.0	3.0 in.	Cobbles
4.75	0.19	No. 4	Gravel
2.00	0.08	No. 10	coarse Sand
0.425		No. 40	medium Sand
0.074		No. 200	fine Sand
0.005			Silt
			Clay Size

Soil Plasticity Chart

(ASTM D-2487)



NOTE: Color descriptions on the logs are Munsell colors taken from the Rock Color Chart (Geologic Society of America, 1984)

File No.:	Date:	Approved By:	RG Number:	Figure No.:
02-01686-001	6/2002	MJG		

LOCATION MAP
(Not to scale)



EnecoTech® ENVIRONMENTAL CONSULTANTS
6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: MW6

Date(s):	2/26/01			Project Name:	Wigington Petroleum
Start Time:	10:00	Finish Time:	12:45	Project Number:	02-01686-001
Logged By:	GB	Drilling Company:	THF	Page	1 of 2
Elevation: (ft. amsl)	Casing top 362.44	Vapor Detector:	PID	Drilling Method:	Hollow Stem Auger
Sampling Method:	Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 4-50 lb Bags	N/A	Sanitary Seal: ____ Bags	N/A
Casing Type:	PVC	Diameter:	4"	Boring Dia.:	10"
Water Initial	29'				
Screen Type:	PVC	Slot Size: 0.020 "	Diameter:	4"	Total Depth: 42'
Water Final	N/A				

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Vapor (ppm)	Time	Boring/Well Completion
0	6" Concrete							
5	Top Soil: Dark brown (10YR3/3), damp, loose, fine sand (SP). No PHO.	5 5 10		MW6-5'		0.0	10:15	
10		10 15 20		MW6-10'		0.0	10:20	
15		12 20 25		MW6-15'		0.0	10:23	
20	Weathered Granitics: Very dark gray (10YR3/1), wet, loose clayey sands (SC). Slight PHO.	15 20 25		MW6-20'		16.0	10:28	
25	Weathered Granitics: Dark gray (10YR3/3), wet, loose, fine sands (SP). Slight PHO.	15 20 25		MW6-25'		16.0	10:30	
	Approximate Water Table	20 25						
30	Saturated. Moderate PHO.	30		MW6-30'		245.0	10:36	

LEGEND

Sample Type	Screen Type		
Sleeve	A-Ambient	Concrete	Perforations
Grab	B-Bag	Bentonite Seal	Well Casing
Discard	C-Cuttings	Filter Pack	Locking Cap
No Recovery	H-Head Space	Contact-Dashed where inferred.	Water Table


Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	3/2001		3/2001		

LOCATION MAP
(Not to scale)



EnecoTech® ENVIRONMENTAL CONSULTANTS
6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: MW6

Date(s):	2/26/01			Project Name:	Wigington Petroleum
Start Time:	10:00	Finish Time:	12:45	Project Number:	02-01686-001
Logged By:	GB	Drilling Company:	THF	Page	2 of 2
Elevation: (ft. amsl)	Casing top 362.44	Vapor Detector:	PID	Drilling Method:	Hollow Stem Auger
Sampling Method:	Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: ____ Bags	N/A	Sanitary Seal: ____ Bags	N/A
Casing Type:	PVC	Diameter:	4"	Boring Dia.:	10"
Water Initial	29'				
Screen Type:	PVC	Slot Size:	0.020"	Diameter:	4"
Total Depth:	42'	Water Final	N/A		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30								
		50						
		50						
35		50		MW6-35'		476.0	10:45	
		10						
		10						
40	Slight PHO.	10		MW6-40'		17.0	10:50	
	Total Depth=42 ft.							
45								
50								
55								
60								

LEGEND

Sample Type: Sleeve; Grab; Discard; No Recovery

Screen Type: A-Ambient; B-Bag; C-Cuttings; H-Head Space

Concrete; Bentonite Seal; Filter Pack; Contact - Dashed where inferred.

Perforations; Well Casing; Locking Cap; Water Table

Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	3/2001		3/2001		

LOCATION MAP
(Not to scale)

N

EnecoTech® ENVIRONMENTAL CONSULTANTS
6160 Fairmount Ave. Suite "A" San Diego, California 92120

BORING/WELL LOG I.D.: MW7

Date(s):	2/26/01			Project Name:	Wigington Petroleum
Start Time:	13:00	Finish Time:	16:45	Project Number:	02-01686-001
Logged By:	GB	Drilling Company:	THF	Page	1 of 2
Elevation: (ft. amsl)	Casing top 362.57	Vapor Detector:	PID	Drilling Method:	Hollow Stem Auger
Sampling Method:	Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: ____ Bags	N/A	Sanitary Seal: ____ Bags	N/A
Casing Type:	PVC	Diameter:	4"	Boring Dia.:	10"
Water Initial	29'				
Screen Type:	PVC	Slot Size:	0.020"	Diameter:	4"
Total Depth:	42'	Water Final	N/A		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	6" Concrete							
5	Top Soil: Dark brown (10YR3/3), damp, loose, fine sand (SP). No PHO.	5 8 10		MW7-5'		0.0	13:05	
10		6 10 12		MW7-10'		0.0	13:10	
15		8 10 12		MW7-15'		0.0	13:15	
20	Weathered Granitics: Very dark gray (10YR3/1), wet, loose clayey sands (SC). Slight PHO.	10 10 10		MW7-20'		2.0	13:20	
25	Weathered Granitics: Dark gray (10YR3/3), wet, loose, fine sands (SP). Slight PHO.	12 15 18		MW7-25'		20.4	13:30	
	Approximate Water Table	20						
30	Saturated. Moderate PHO.	20 20		MW7-30'		1.4	13:34	

LEGEND

Sample Type	Screen Type		
Sleeve	A-Ambient	Concrete	Perforations
Grab	B-Bag	Bentonite Seal	Well Casing
Discard	C-Cuttings	Filter Pack	Locking Cap
No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table

Traffic Rated Well Cover

Drawn By:	MJL	Date:	3/2001	Approved By:		Date:	3/2001	RG Number:		Fig. No.:	

LOCATION MAP
(Not to scale)



EnecoTech® ENVIRONMENTAL CONSULTANTS
6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: MW7

Date(s):	2/26/01			Project Name:	Wigington Petroleum
Start Time:	13:00	Finish Time:	16:45	Project Number:	02-01686-001
Logged By:	GB	Drilling Company:	THF	Page	2 of 2
Elevation: (ft. a msl)	Casing top 362.57	Vapor Detector:	PID	Drilling Method:	Hollow Stem Auger
Sampling Method:	Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: ____ Bags	N/A	Sanitary Seal: ____ Bags	N/A
Casing Type:	PVC	Diameter:	4"	Boring Dia.:	10"
Water Initial	29'				
Screen Type:	PVC	Slot Size:	0.020"	Diameter:	4"
Total Depth:	42'	Water Final	N/A		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30								
35	Weathered Granitics: Dark brown (10YR3/3), wet, very loose, fine sands (SP). No PHO.	15 22 25	⊠	MW7-35'		0.0	13:38	
40		15 15 15	⊠	MW7-40'		0.0	13:45	
	Total Depth=42 ft.							
45								
50								
55								
60								

LEGEND

Sample Type: ⊠ Sleeve; ☒ Grab; ⊘ Discard; ■ No Recovery

Screen Type: A-Ambient; B-Bag; C-Cuttings; H-Head Space

Concrete; Bentonite Seal; Filter Pack; Contact - Dashed where inferred.

Perforations; Well Casing; Locking Cap; Water Table

Traffic Rated Well Cover

Drawn By:	MJL	Date:	3/2001	Approved By:		Date:	3/2001	RG Number:		Fig. No.:	

LOCATION MAP
(Not to scale)

N

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: MW8

Date(s): 4/19/02		Project Name:	Wigington Petroleum
Start Time: 08:45	Finish Time: 12:00	Project Number:	02-01686-001
Logged By: GB	Drilling Company: West Hazmat	Page 1 of 2	
Elevation: (ft. a msl) Casing top 364.51	Vapor Detector: PID	Drilling Method: Hollow Stem Auger 10"	Sampling Method: Split Spoon Sampler
Filter Pack: 9 Bags	Bentonite Seal: 2 Bags Grout	Sanitary Seal: 2 Bags Chips	
Casing Type: PVC	Diameter: 4"	Boring Dia.: 10"	Water Initial 35'
Screen Type: PVC	Slot Size: 0.020" Diameter: 4"	Total Depth: 40.5"	Water Final N/A

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	Fill: Moderate yellowish brown (10YR5/4), damp, loose, fine to coarse sand (SW). Earthy odor. No PHO. Some gravel and debris.							
5	Alluvium: Dark yellowish brown (10YR4/2), damp, loose, fine to coarse sand (SW). Some gravel. No PHO.	5 5 10		Mw8-5'		0	09:50	
10		5 5 7		Mw8-10'		0	09:55	
15								
20	Alluvium: Becomes darker dusky brown (5YR2/2) and coarser. Earthy odor. No PHO.	10 12 12		Mw8-20'		0	10:00	
25	Alluvium: Dark yellowish brown (10YR4/2), damp, loose, medium to coarse sand (SP). Slight PHO.	10 11 12		Mw8-25'		18	10:05	
30		70		Mw8-30.5' Mw8-31.0'		5	10:15	

LEGEND

Sample Type: Sleeve; Grab; Discard; No Recovery

Screen Type: A-Ambient; B-Bag; C-Cuttings; H-Head Space

Concrete; Bentonite Seal; Filter Pack; Contact - Dashed where inferred.

Perforations; Well Casing; Locking Cap; Water Table

Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	4/2002	MJG	4/2002	4821	

LOCATION MAP
(Not to scale)



EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: MW8

Date(s):	4/19/02			Project Name:	Wigington Petroleum
Start Time:	08:45	Finish Time:	12:00	Project Number:	02-01686-001
Logged By:	GB	Drilling Company:	West Hazmat	Page	2 of 2
Elevation: (ft. amsl)	Casingtop 364.51	Vapor Detector:	PID	Drilling Method:	Hollow Stem Auger 10"
Sampling Method:	Split Spoon Sampler				
Filter Pack:	9 Bags	Bentonite Seal:	2 Bags	Grout	Sanitary Seal: 2 Bags Chips
Casing Type:	PVC	Diameter:	4"	Boring Dia.:	10"
Water Initial	35'				
Screen Type:	PVC	Slot Size:	0.020"	Diameter:	4"
Total Depth:	40.5"	Water Final	N/A		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30	Becomes fine to medium and moist			MW8-31.5'		1	10:20	
				MW8-32.5'				
	Becomes medium to coarse and wet			MW8-33.5'		51	10:25	
35				MW8-34.5'		372	10:30	
	Becomes grayish black (2), very strong PHO. Soil feels lubricated. Saturated.			MW8-35.5'				
				MW8-36.5'		429	10:35	
				MW8-37.5'		118	10:40	
				MW8-38.5'				
40				MW8-39.5'		414	10:50	
	Total Depth = 40.5 ft.							
45								
50								
55								
60								

LEGEND

Sample Type	Screen Type	
Sleeve	A-Ambient	Concrete
Grab	B-Bag	Bentonite Seal
Discard	C-Cuttings	Filter Pack
No Recovery	H-Head Space	Contact - Dashed where inferred.

Perforations
Well Casing
Locking Cap
Water Table



Traffic Rated Well Cover

Drawn By:	MJL	Date:	4/2002	Approved By:	MJG	Date:	4/2002	RG Number:	4821	Fig. No.:

APPENDIX B

Soil Laboratory Reports 1998 - 2002

Report Summary

Client: South Bay Environmental Services
Project: El Capitan Oil
Matrix: soil

Method	TPH gasoline	TPH diesel	TRPH	MTBE **	Benzene	Toluene	Ethyl-benzene	Xylenes
Detection Limit (mg/kg)	10	10	10	0.1	0.05	0.05	0.05	0.1
SAMPLE I.D.								
Date Analyzed: 04/29/98								
T1-1-15.5'	nd	nd						
T1-2-15'	400&	2,000#		3.7**	0.12	0.95	11	64
T2-1-14'	nd	11#						
T2-2-15'	nd	nd						
T3-8.4'			4,300					
T4-10'	820&	nd						
T5-E-5.3'			260					
T5-W-6'			6,900					
T6-E-15'	nd	1,100						
T6-W-15.5'	nd	1,800						
T7-E-15'	nd	800						
T7-W-15'	840&	23,000						
T8-E-15'	nd	25						
T8-W-15'	nd	1,900						
T9-E-15.5'	nd	30						
T9-W-17'	nd	4,200						
P1-4.0'	nd	370#						

FAXED
PRELIMINARY DATA

Method	TPH gasoline	TPH diesel	TPH C_{24}-C_{44}	TRPH	Benzene	Toluene	Ethyl-benzene	Xylenes
Detection Limit (mg/kg)	10	10	10	10	0.05	0.05	0.05	0.1
T3-8.5'	220&	1200#	190	1,900				

nd = not found above the detection limit
& = gasoline range organics (C_6-C_{12}) not identified as gasoline
# = diesel range organics (C_{13}-C_{24}) not identified as diesel
* = sample dilution was required. Detection limits were adjusted accordingly.
** = This compound has been screened by EPA method 8020. Any positive results should be confirmed by a second analysis.
= A second analysis has been performed on this sample by Mass Spectrometry. The results are as indicated.
Analyses performed by: Brat Hutchinson

SB3

SAM Chain-of-Custody Record

Date 4/29/98 Page 1 of 2

Project Name: El Capitan Oil
Reference:
Address: 11427 Woodside Ave. Santee, CA 92071
Sampler's Signature: [signature]
Lab To Be Used: MOBILE ONE

SAMPLE NO.	DATE	TIME	LOCATION	TPH DOHS METHOD	TRPH EPA 418.1	BTXE/mTBE (8020/602)	HALOGENATED (8010/601)		TPH ext.	SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
T5-E-6.3	4/29/98	11:57	East end of w.o. tank, Tank 5 @ 10.3 ft. bgs		X					X		X		1	
T5-W-6	4/29/98	11:52	west end of w.o. tank Tank 5 @ 10.0 ft bgs		X					X		X		1	Please provide
T3-9.5'	4/29/98	12:04	collected below T3-6.4 vertical sample @ 9.5'		X				X	X		X		1	carbon range
T3-6.4	4/29/98	12:02	collected below w.o. Tank Tank 3 @ 6.4 ft. bgs		X					X		X		1	
P1-4.0	4/29/98	12:18	piping sample @ 4.0' bgs 8 ft. from Bldg + 8' North	X						X		X		1	BTEX / mTBE
T4-10	4/29/98	12:11	10 ft. bgs. middle of Tk. (bgs) @ 10 ft. bgs.	X						X		X		1	requested by PVC
T1-1-15.5	4/29/98	12:38	collected beneath sample T1-2-15	X		X	PVC		PVC	X		X		1	County Inspector..
T1-2-15	4/29/98	12:40	center of Tank 1 @ 15 ft. bgs	X		X				X		X		1	
T2-1-14	4/29/98	12:44	collected from center of Tank 2 @ 14 ft. bgs.	X						X		X		1	

ANALYSIS REQUESTED | SAMPLE TYPE

COPY OF LAB RESULTS MUST BE SENT TO:
Dept. of Environmental Health
Site Assessment and Mitigation Division
P.O. Box 85261
San Diego, CA 92186-5261

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
Signature: [signature]	4/29/98	Signature		Signature	
Printed Name: Steve Hnggett	Time: 1:36	Printed Name	Time	Printed Name	Time
Company		Company		Company	
RECEIVED BY: [signature]	Date: 4/29/98	RECEIVED BY	Date	RECEIVED BY (LAB)	Date
Signature: BRET HUTCHINSON	Time: 1:36	Signature	Time	Signature	Time
Printed Name: MOL		Printed Name		Printed Name	
Company		Company		Company	

9 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice: N/A Yes/No
Tape Seal Intact: N/A Yes/No
Special Shipment/Handling Or Storage Requirements: None
mobile lab onsite.

Split Sample Location: none

Site Identification
H# 19469 AT# 4031
SAM Pamela Villa Clay

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - SAM

DEH:SAM-999 (8/95) NCR

County of San Diego
Department of Environmental Health

SAM Chain-of-Custody Record

Date 4/29/98 Page 2 of 2

Project Name: El Capitan Oil
Reference:
Address: 11427 Woodside Ave Santee, CA 92071
Sampler's Signature: [signature]
Lab To Be Used: MOBILE ONE

SAMPLE NO.	DATE	TIME	LOCATION	TPH DOHS METHOD	TRPH EPA 418.1	BTXE (8020/602)	HALOGENATED (8010/601)			SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
T2-2-16	4/29/98	12:45	sample beneath former Tank 2 @ 16' bgs; below T2-1-14	X						X		X		1	
T9-E-15.5	4/29/98	12:55	East end of Tank 9 @ 15.5 ft. bgs.	X						X		X		1	please provide
T9W-17	4/29/98	1:00	west end of Tank 9 @ 17 ft. bgs	X						X		X		1	~~DT~~ Carbon
T8E-16	4/29/98	1:03	east end of Tank 8 @ 16 ft. bgs	X						X		X		1	range
T8W-16	4/29/98	1:07	west end of Tank 8 @ 16 ft. bgs	X						X		X		1	
T7-W-16	4/29/98	1:09	west end of Tank 7 @ 16' bgs	X						X		X		1	
T7-E-16	4/29/98	1:10	east end of Tank 7 @ 16' bgs	X						X		X		1	
T6-E-16	4/29/98	1:12	east end of Tank 6 @ 16 ft. bgs	X						X		X		1	
T6-W-16.5	4/29/98	1:14	west end of Tank 6 @ 16.5 ft. bgs	X						X		X		1	

ANALYSIS REQUESTED

SAMPLE TYPE

COPY OF LAB RESULTS MUST BE SENT TO:
Dept. of Environmental Health
Site Assessment and Mitigation Division
P.O. Box 85261
San Diego, CA 92186-5261

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
Signature: Steve Angerer	4/29/98	Signature		Signature	
Printed Name	Time 1:36	Printed Name	Time	Printed Name	Time
Company		Company		Company	
RECEIVED BY: Bert Hutchinson	Date 4/29/98	RECEIVED BY	Date	RECEIVED BY (LAB)	Date
Signature	Time 1:36	Signature	Time	Signature	Time
Printed Name: MOL		Printed Name		Printed Name	
Company		Company		Company	

9 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice: N/A Yes/No
Tape Seal Intact: Yes/No
Special Shipment/Handling Or Storage Requirements: None
mobile lab on site

Split Sample Location: none

Site Identification
H# 19469 AT# 4031
SAM: Pamela Villa Clay

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - SAM

DEH:SAM-999 (8/95) NCR

County of San Diego
Department of Environmental Health

MOBILE/one
LABORATORIES INC.

FACSIMILE TRANSMISSION

TO: Kari
COMPANY: S & L
TO FAX #: 619-390-4166
DATE: 4-30-98
NUMBER OF PAGES INCLUDING THIS COVER SHEET: 2
FROM: Becky Johnson

MOBILE ONE LABORATORIES
FAX (760) 735-2469
PHONE (760) 735-3208

SUBJECT:

Kari:

The 840& value reported for sample T7-W-16' may be removed. This result may be from diesel overlapping the gasoline range. I am having Bret check this tomorrow.

Del Mar Analytical

28[illegible]e., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley [illegible], Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

LABORATORY REPORT

Prepared For: Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120

RECEIVED
MAR 2 6 2001

Attention: Mike Gibbs
Project: Wigington, El Capitan Oil
02-01686-001
Bq001

Sampled: 02/26/01
Received: 02/28/01
Reported: 03/21/01

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

CA ELAP Certificate #1169
AZ DHS License #AZ0062

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Del Mar Analytical

2[illegible] Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley [illegible], Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Client Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CKB0221

Sampled: 02/26/01
Received: 02/28/01

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: CKB0221-04 (MW6-20' - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C1C0101	1.0	**2.1**	1	3/1/01	3/1/01	QG
Benzene	EPA 8015B/8021	C1C0101	0.0050	**0.15**	1	3/1/01	3/1/01	
Toluene	EPA 8015B/8021	C1C0101	0.0050	**0.0059**	1	3/1/01	3/1/01	
Ethylbenzene	EPA 8015B/8021	C1C0101	0.0050	**0.015**	1	3/1/01	3/1/01	
Xylenes, Total	EPA 8015B/8021	C1C0101	0.015	**0.11**	1	3/1/01	3/1/01	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C1C0101	0.035	**0.046**	1	3/1/01	3/1/01	
Surrogate: 4-BFB (PID) (65-145%)				*106 %*				
Surrogate: aaa-TFT (FID) (55-120%)				*105 %*				
Sample ID: CKB0221-05 (MW6-25' - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C1C0101	1.0	**5.8**	1	3/1/01	3/1/01	QG
Benzene	EPA 8015B/8021	C1C0101	0.0050	ND	1	3/1/01	3/1/01	
Toluene	EPA 8015B/8021	C1C0101	0.0050	ND	1	3/1/01	3/1/01	
Ethylbenzene	EPA 8015B/8021	C1C0101	0.0050	**0.0057**	1	3/1/01	3/1/01	
Xylenes, Total	EPA 8015B/8021	C1C0101	0.015	**0.13**	1	3/1/01	3/1/01	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C1C0101	0.035	**0.051**	1	3/1/01	3/1/01	
Surrogate: 4-BFB (PID) (65-145%)				*109 %*				
Surrogate: aaa-TFT (FID) (55-120%)				*70.5 %*				
Sample ID: CKB0221-06 (MW6-30' - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C1C0210	800	**5900**	800	3/2/01	3/3/01	QG
Benzene	EPA 8015B/8021	C1C0210	4.0	**11**	800	3/2/01	3/3/01	
Toluene	EPA 8015B/8021	C1C0210	4.0	**93**	800	3/2/01	3/3/01	
Ethylbenzene	EPA 8015B/8021	C1C0210	4.0	**80**	800	3/2/01	3/3/01	
Xylenes, Total	EPA 8015B/8021	C1C0210	12	**540**	800	3/2/01	3/3/01	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C1C0210	28	ND	800	3/2/01	3/3/01	
Surrogate: 4-BFB (PID) (55-170%)				*420 %*				*Z3*
Surrogate: aaa-TFT (FID) (55-130%)				*129 %*				

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02-01686-001
Report Number: CKB0221

Sampled: 02/26/01
Received: 02/28/01

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: CKB0221-07 (MW6-35' - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021C1C0210		40	**410**	40	3/2/01	3/3/01	QG
Benzene	EPA 8015B/8021C1C0210		0.20	**0.43**	40	3/2/01	3/3/01	
Toluene	EPA 8015B/8021C1C0210		0.20	**7.7**	40	3/2/01	3/3/01	
Ethylbenzene	EPA 8015B/8021C1C0210		0.20	**4.3**	40	3/2/01	3/3/01	
Xylenes, Total	EPA 8015B/8021C1C0210		0.60	**29**	40	3/2/01	3/3/01	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021C1C0210		1.4	ND	40	3/2/01	3/3/01	
Surrogate: 4-BFB (PID) (55-170%)				*114 %*				
Surrogate: aaa-TFT (FID) (55-130%)				*114 %*				
Sample ID: CKB0221-08 (MW6-40' - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021C1C0210		80	**210**	80	3/2/01	3/2/01	QG
Benzene	EPA 8015B/8021C1C0210		0.40	ND	80	3/2/01	3/2/01	
Toluene	EPA 8015B/8021C1C0210		0.40	**0.73**	80	3/2/01	3/2/01	
Ethylbenzene	EPA 8015B/8021C1C0210		0.40	**2.0**	80	3/2/01	3/2/01	
Xylenes, Total	EPA 8015B/8021C1C0210		1.2	**17**	80	3/2/01	3/2/01	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021C1C0210		2.8	ND	80	3/2/01	3/2/01	C
Surrogate: 4-BFB (PID) (55-170%)				*105 %*				
Surrogate: aaa-TFT (FID) (55-130%)				*102 %*				
Sample ID: CKB0221-13 (MW7-25' - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021C1C0713		4.0	**21**	4	3/7/01	3/7/01	QG
Benzene	EPA 8015B/8021C1C0713		0.020	ND	4	3/7/01	3/7/01	
Toluene	EPA 8015B/8021C1C0713		0.020	ND	4	3/7/01	3/7/01	
Ethylbenzene	EPA 8015B/8021C1C0713		0.020	ND	4	3/7/01	3/7/01	
Xylenes, Total	EPA 8015B/8021C1C0713		0.060	ND	4	3/7/01	3/7/01	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021C1C0713		0.14	ND	4	3/7/01	3/7/01	
Surrogate: 4-BFB (PID) (65-145%)				*110 %*				
Surrogate: aaa-TFT (FID) (55-120%)				*88.5 %*				

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2[redacted]ve., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
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MTBE (EPA 8260 MOD.)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/kg	ug/kg				
Sample ID: CKB0221-04 (MW6-20' - Soil)								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	C1C0804	5.0	**73**	1	3/8/01	3/8/01	
Surrogate: Dibromofluoromethane (80-135%)				*132 %*				
Sample ID: CKB0221-05 (MW6-25' - Soil)								
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	C1C0804	5.0	ND	1	3/8/01	3/8/01	
Surrogate: Dibromofluoromethane (80-135%)				*129 %*				

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METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1C0101 Extracted: 03/01/01										
Blank Analyzed: 03/01/01 (C1C0101-BLK1)										
Volatile Fuel Hydrocarbons	ND	1.0	mg/kg							QG
Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	mg/kg							
Ethylbenzene	ND	0.0050	mg/kg							
Xylenes, Total	ND	0.015	mg/kg							
Methyl-tert-butyl Ether (MTBE)	ND	0.035	mg/kg							
Surrogate: 4-BFB (PID)	*0.0899*		*mg/kg*	*0.100*		*89.9*	*65-145*			
Surrogate: aaa-TFT (FID)	*0.106*		*mg/kg*	*0.100*		*106*	*55-120*			
LCS Analyzed: 03/01/01 (C1C0101-BS1)										
Volatile Fuel Hydrocarbons	1.37	1.0	mg/kg	1.10		125	70-150			QG
Benzene	0.105	0.0050	mg/kg	0.100		105	85-125			
Toluene	0.105	0.0050	mg/kg	0.100		105	80-125			
Ethylbenzene	0.108	0.0050	mg/kg	0.100		108	85-125			
Xylenes, Total	0.309	0.015	mg/kg	0.300		103	80-125			
Methyl-tert-butyl Ether (MTBE)	1.51	0.035	mg/kg	1.50		101	65-140			
Surrogate: 4-BFB (PID)	*0.0997*		*mg/kg*	*0.100*		*99.7*	*65-145*			
Surrogate: aaa-TFT (FID)	*0.0953*		*mg/kg*	*0.100*		*95.3*	*55-120*			
Matrix Spike Analyzed: 03/01/01 (C1C0101-MS1)					**Source: CKB0220-01**					
Volatile Fuel Hydrocarbons	1.42	1.0	mg/kg	1.10	ND	118	60-145			QG
Benzene	0.0994	0.0050	mg/kg	0.100	0.0061	93.3	85-130			
Toluene	0.0984	0.0050	mg/kg	0.100	ND	97.5	80-130			
Ethylbenzene	0.101	0.0050	mg/kg	0.100	ND	99.7	85-125			
Xylenes, Total	0.295	0.015	mg/kg	0.300	ND	98.3	80-125			
Methyl-tert-butyl Ether (MTBE)	1.31	0.035	mg/kg	1.50	ND	87.3	55-145			
Surrogate: 4-BFB (PID)	*0.0988*		*mg/kg*	*0.100*		*98.8*	*65-145*			
Surrogate: aaa-TFT (FID)	*0.0985*		*mg/kg*	*0.100*		*98.5*	*55-120*			

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VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1C0101 Extracted: 03/01/01										
Matrix Spike Dup Analyzed: 03/01/01 (C1C0101-MSD1)					Source: CKB0220-01					
Volatile Fuel Hydrocarbons	1.39	1.0	mg/kg	1.10	ND	115	60-145	2.14	25	QG
Benzene	0.103	0.0050	mg/kg	0.100	0.0061	96.9	85-130	3.56	15	
Toluene	0.101	0.0050	mg/kg	0.100	ND	100	80-130	2.61	15	
Ethylbenzene	0.102	0.0050	mg/kg	0.100	ND	101	85-125	0.985	15	
Xylenes, Total	0.298	0.015	mg/kg	0.300	ND	99.3	80-125	1.01	15	
Methyl-tert-butyl Ether (MTBE)	1.45	0.035	mg/kg	1.50	ND	96.7	55-145	10.1	25	
Surrogate: 4-BFB (PID)	*0.100*		*mg/kg*	*0.100*		*100*	*65-145*			
Surrogate: aaa-TFT (FID)	*0.0954*		*mg/kg*	*0.100*		*95.4*	*55-120*			
Batch: C1C0210 Extracted: 03/02/01										
Blank Analyzed: 03/02/01 (C1C0210-BLK1)										
Volatile Fuel Hydrocarbons	ND	40	mg/kg							QG
Benzene	ND	0.20	mg/kg							
Toluene	ND	0.20	mg/kg							
Ethylbenzene	ND	0.20	mg/kg							
Xylenes, Total	ND	0.60	mg/kg							
Methyl-tert-butyl Ether (MTBE)	ND	1.4	mg/kg							
Surrogate: 4-BFB (PID)	*3.91*		*mg/kg*	*4.00*		*97.8*	*55-170*			
Surrogate: aaa-TFT (FID)	*4.29*		*mg/kg*	*4.00*		*107*	*55-130*			
LCS Analyzed: 03/02/01 (C1C0210-BS1)										
Volatile Fuel Hydrocarbons	55.0	40	mg/kg	44.0		125	65-160			QG
Benzene	3.85	0.20	mg/kg	4.00		96.2	85-120			
Toluene	3.93	0.20	mg/kg	4.00		98.3	75-125			
Ethylbenzene	4.08	0.20	mg/kg	4.00		102	85-120			
Xylenes, Total	11.8	0.60	mg/kg	12.0		98.3	80-120			
Methyl-tert-butyl Ether (MTBE)	74.5	1.4	mg/kg	60.0		124	65-150			
Surrogate: 4-BFB (PID)	*3.79*		*mg/kg*	*4.00*		*94.7*	*55-170*			
Surrogate: aaa-TFT (FID)	*3.91*		*mg/kg*	*4.00*		*97.8*	*55-130*			

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VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1C0713 Extracted: 03/07/01										
Blank Analyzed: 03/07/01 (C1C0713-BLK1)										
Volatile Fuel Hydrocarbons	ND	1.0	mg/kg							QG
Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	mg/kg							
Ethylbenzene	ND	0.0050	mg/kg							
Xylenes, Total	ND	0.015	mg/kg							
Methyl-tert-butyl Ether (MTBE)	ND	0.035	mg/kg							
Surrogate: 4-BFB (PID)	*0.0944*		*mg/kg*	*0.100*		*94.4*	*65-145*			
Surrogate: aaa-TFT (FID)	*0.0982*		*mg/kg*	*0.100*		*98.2*	*55-120*			
LCS Analyzed: 03/07/01 (C1C0713-BS1)										
Volatile Fuel Hydrocarbons	1.19	1.0	mg/kg	1.10		108	70-150			QG
Benzene	0.0992	0.0050	mg/kg	0.100		99.2	85-125			
Toluene	0.0968	0.0050	mg/kg	0.100		96.8	80-125			
Ethylbenzene	0.0978	0.0050	mg/kg	0.100		97.8	85-125			
Xylenes, Total	0.285	0.015	mg/kg	0.300		95.0	80-125			
Methyl-tert-butyl Ether (MTBE)	1.51	0.035	mg/kg	1.50		101	65-140			
Surrogate: 4-BFB (PID)	*0.105*		*mg/kg*	*0.100*		*105*	*65-145*			
Surrogate: aaa-TFT (FID)	*0.0945*		*mg/kg*	*0.100*		*94.5*	*55-120*			
Matrix Spike Analyzed: 03/07/01 (C1C0713-MS1)					**Source: CKC0020-01**					
Volatile Fuel Hydrocarbons	1.21	1.0	mg/kg	1.10	ND	72.7	60-145			QG
Benzene	0.0986	0.0050	mg/kg	0.100	ND	98.6	85-130			
Toluene	0.0967	0.0050	mg/kg	0.100	ND	96.7	80-130			
Ethylbenzene	0.0986	0.0050	mg/kg	0.100	ND	98.6	85-125			
Xylenes, Total	0.287	0.015	mg/kg	0.300	ND	95.7	80-125			
Methyl-tert-butyl Ether (MTBE)	1.47	0.035	mg/kg	1.50	ND	98.0	55-145			
Surrogate: 4-BFB (PID)	*0.104*		*mg/kg*	*0.100*		*104*	*65-145*			
Surrogate: aaa-TFT (FID)	*0.0947*		*mg/kg*	*0.100*		*94.7*	*55-120*			

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VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1C0713 Extracted: 03/07/01										
Matrix Spike Dup Analyzed: 03/07/01 (C1C0713-MSD1)					**Source: CKC0020-01**					
Volatile Fuel Hydrocarbons	1.22	1.0	mg/kg	1.10	ND	73.6	60-145	0.823	25	*QG*
Benzene	0.101	0.0050	mg/kg	0.100	ND	101	85-130	2.40	15	
Toluene	0.100	0.0050	mg/kg	0.100	ND	100	80-130	3.36	15	
Ethylbenzene	0.102	0.0050	mg/kg	0.100	ND	102	85-125	3.39	15	
Xylenes, Total	0.300	0.015	mg/kg	0.300	ND	100	80-125	4.43	15	
Methyl-tert-butyl Ether (MTBE)	1.38	0.035	mg/kg	1.50	ND	92.0	55-145	6.32	25	
Surrogate: 4-BFB (PID)	*0.108*		*mg/kg*	*0.100*		*108*	*65-145*			
Surrogate: aaa-TFT (FID)	*0.0916*		*mg/kg*	*0.100*		*91.6*	*55-120*			

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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28[illegible]Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley [illegible]A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Client Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CKB0221

Sampled: 02/26/01
Received: 02/28/01

METHOD BLANK/QC DATA

MTBE (EPA 8260 MOD.)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C1C0804 Extracted: 03/08/01										
Blank Analyzed: 03/08/01 (C1C0804-BLK1)										
Methyl-tert-butyl Ether (MTBE)	ND	5.0	ug/kg							
Surrogate: Dibromofluoromethane	*61.5*		*ug/kg*	*50.0*		*123*	*80-135*			
LCS Analyzed: 03/08/01 (C1C0804-BS1)										
Methyl-tert-butyl Ether (MTBE)	44.4	5.0	ug/kg	50.0		88.8	50-135			
Surrogate: Dibromofluoromethane	*59.4*		*ug/kg*	*50.0*		*119*	*80-135*			
Matrix Spike Analyzed: 03/08/01 (C1C0804-MS1)					**Source: CKC0011-11**					
Methyl-tert-butyl Ether (MTBE)	40.1	5.0	ug/kg	50.0	ND	80.2	45-145			
Surrogate: Dibromofluoromethane	*59.6*		*ug/kg*	*50.0*		*119*	*80-135*			
Matrix Spike Dup Analyzed: 03/08/01 (C1C0804-MSD1)					**Source: CKC0011-11**					
Methyl-tert-butyl Ether (MTBE)	39.4	5.0	ug/kg	50.0	ND	78.8	45-145	1.76	30	
Surrogate: Dibromofluoromethane	*60.5*		*ug/kg*	*50.0*		*121*	*80-135*			

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Attention: Mike Gibbs

Client Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CKB0221

Sampled: 02/26/01
Received: 02/28/01

DATA QUALIFIERS AND DEFINITIONS

C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
QG	Carbon ranges C6-C12 quantitated against a gasoline standard.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITY

CHAIN OF CUSTODY RECORD

6160 Fairmount Ave. • Suite A • San Diego, CA 92120

PROJ. NO.	PROJECT NAME
02-01686-001	WIGINGTON SL Capitan O.I Co.

SAMPLERS: (Signature)

COC # 6

Ship To:

EnecoTech contact :

STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAIN-ERS	TPH, BTEX, MTBE - 8015/8020	HOLD	Remarks/Bottle No.
MW6-5	2/26/01	10:15	S	X	MW6 -5'	1		X	
MW6-10	2/26/01	10:20	S	X	MW6 -10'	1		X	
MW6-15	2/26/01	10:23	S	X	MW6 -15'	1		X	
MW6-20	2/26/01	10:28	S	X	MW6 -20'	1	X		
MW6-25	2/26/01	10:30	S	X	MW6 -25'	1	X		
MW6-30	2/26/01	10:36	S	X	MW6 -30'	1	X		
MW6-35	2/26/01	10:45	S	X	MW6 -35'	1	X		
MW6-40	2/26/01	10:50	S	X	MW6 -40'	1	X		
MW7-5	2/26/01	13:05	S	X	MW7 -5'	1		X	
MW7-10	2/26/01	13:10	S	X	MW7 -10'	1		X	
MW7-15	2/26/01	13:15	S	X	MW7 -15'	1		X	
MW7-20	2/26/01	13:20	S	X	MW7 -20'	1		X	
MW7-25	2/26/01	13:30	S	X	MW7 -25'	1	X		
MW7-30	2/26/01	13:34	S	X	MW7 -30'	1		X	
MW7-35	2/26/01	13:38	S	X	MW7 -35'	1		X	

Confirm positive results for MTBE by EPA Method 8260

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	2/28/01 8:00				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	2/28/01 1110				
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks	
			2/28/01 11:10		

Split Samples:
☐ Accepted ☐ Declined
Signature

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STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITY

CHAIN OF CUSTODY RECORD

6160 Fairmount Ave. • Suite A • San Diego, CA 92120

PROJ. NO.: 02-0168-001

PROJECT NAME: WIGINGTON, El Cajon Oil

COC #: 50

Ship To:

SAMPLERS: (*Signature*)

EnecoTech contact :

STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAIN-ERS	TPH, BTEX, MTBE-8015/8020 HOLD	Remarks/Bottle No.
MW7-40	2/26/01	13:45	S	X	MW7-40'	1	X	Confirm positive results for MTBE by EPA method 8260B.
						6		

Relinquished by: (*Signature*)	Date/Time	Received by: (*Signature*)	Relinquished by: (*Signature*)	Date/Time	Received by: (*Signature*)
	2/26/01 8:00			2/28/01 1110	
Relinquished by: (*Signature*)	Date/Time	Received by: (*Signature*)	Relinquished by: (*Signature*)	Date/Time	Received by: (*Signature*)
Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Date/Time	Remarks	
			2/28/01 11:10		

Split Samples: ☐ Accepted ☐ Declined Signature

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CHAIN OF CUSTODY RECORD

6160 Fairmount Ave. • Suite A • San Diego, CA 92120

PROJ. NO.	PROJECT NAME
02-0168-001	WIGINGTON EL Cajon D.I

SAMPLERS: (*Signature*)

COC #

Ship To:

EnecoTech contact :

STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAIN-ERS	TPH, BTEX, MTBE - 8015/8020 Hold	Remarks/Bottle No.
MW7-40	2/26/01	13:45	S	X	MW7-40'	1	X	Confirm positive results for MTBE, method EPA 8260B.
						6.0		

Relinquished by: (*Signature*)	Date/Time	Received by: (*Signature*)	Relinquished by: (*Signature*)	Date/Time	Received by: (*Signature*)
	2/28/01 8:30				
Relinquished by: (*Signature*)	Date/Time	Received by: (*Signature*)	Relinquished by: (*Signature*)	Date/Time	Received by: (*Signature*)
Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Date/Time	Remarks	

Split Samples:
☐ Accepted ☐ Declined
Signature

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CHAIN OF CUSTODY RECORD

6160 Fairmount Ave. • Suite A • San Diego, CA 92120

PROJ. NO: 02-01656-001

PROJECT NAME: WILMINGTON EL Capitan Oil Co.

SAMPLERS: (*Signature*)

COC #

Ship To:

EnecoTech contact :

STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAIN-ERS	TPH, BTEX, MTBE - 8015/8020 HOLD							Remarks/Bottle No.
MW6-5	2/26/01	10:15	5	X	MW6-5'	1		X						
MW6-10	2/26/01	10:20	5	X	MW6-10'	1		X						
MW6-15	2/26/01	10:23		X	MW6-15'	1		X						
MW6-20	2/26/01	10:28		X	MW6-20'	1	X							
MW6-25	2/26/01	10:30		X	MW6-25'	1	X							
MW6-30	2/26/01	10:36		X	MW6-30'	1	X							
MW6-35	2/26/01	10:45	5	X	MW6-35'	1	X							
MW6-40	2/26/01	10:50	5	X	MW6-40'	1	X							
MW7-5	2/26/01	13:05	5	X	MW7-5'	1		X						
MW7-10	2/26/01	13:10	5	X	MW7-10'	1		X						
MW7-15	2/26/01	13:15	5	X	MW7-15'	1		X						
MW7-20	2/26/01	13:20	5	X	MW7-20'	1		X						
MW7-25	2/26/01	13:30	5	X	MW7-25'	1	X							
MW7-30	2/26/01	13:34	5	X	MW7-30'	1		X						
MW7-35	2/26/01	13:38	5	X	MW7-35'	1		X						

Confirm positive results for MTBE by EPA Method 8260B

Relinquished by: (*Signature*)	Date/Time	Received by: (*Signature*)	Relinquished by: (*Signature*)	Date/Time	Received by: (*Signature*)
	2/28/01 8:00				
Relinquished by: (*Signature*)	Date/Time	Received by: (*Signature*)	Relinquished by: (*Signature*)	Date/Time	Received by: (*Signature*)
Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Date/Time	Remarks	

Split Samples:
☐ Accepted ☐ Declined
Signature

Del Mar Analytical

2852 Walnut Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
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LABORATORY REPORT

RECEIVED
MAY - 7 2002
BY:

Prepared For: Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120

Attention: Mike Gibbs
Project: Wigington, El Capitan Oil
02-01686-001

Sampled: 04/19/02
Received: 04/19/02
Reported: 05/01/02

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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1014 E. Cooley[illegible]ite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0283

Sampled: 04/19/02
Received: 04/19/02

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: CLD0283-04 (MW8-25 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2907	1.0	ND	1	4/26/2002	4/26/2002	QG
Benzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Toluene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Ethylbenzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Xylenes, Total	EPA 8015B/8021	C2D2907	0.015	ND	1	4/26/2002	4/26/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2907	0.035	ND	1	4/26/2002	4/26/2002	
Surrogate: 4-BFB (PID) (75-140%)				*106 %*				
Surrogate: aaa-TFT (FID) (75-130%)				*94 %*				
Sample ID: CLD0283-05 (MW8-30.5 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2907	1.0	ND	1	4/26/2002	4/26/2002	QG
Benzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Toluene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Ethylbenzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Xylenes, Total	EPA 8015B/8021	C2D2907	0.015	ND	1	4/26/2002	4/26/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2907	0.035	ND	1	4/26/2002	4/26/2002	
Surrogate: 4-BFB (PID) (75-140%)				*111 %*				
Surrogate: aaa-TFT (FID) (75-130%)				*88 %*				
Sample ID: CLD0283-06 (MW8-31 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2907	1.0	ND	1	4/26/2002	4/26/2002	QG
Benzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Toluene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Ethylbenzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Xylenes, Total	EPA 8015B/8021	C2D2907	0.015	ND	1	4/26/2002	4/26/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2907	0.035	ND	1	4/26/2002	4/26/2002	
Surrogate: 4-BFB (PID) (75-140%)				*110 %*				
Surrogate: aaa-TFT (FID) (75-130%)				*88 %*				

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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285[illegible]n Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley[illegible]ite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0283

Sampled: 04/19/02
Received: 04/19/02

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: CLD0283-07 (MW8-31.5 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2907	1.0	ND	1	4/26/2002	4/26/2002	QG
Benzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Toluene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Ethylbenzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Xylenes, Total	EPA 8015B/8021	C2D2907	0.015	ND	1	4/26/2002	4/26/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2907	0.035	ND	1	4/26/2002	4/26/2002	
Surrogate: 4-BFB (PID) (75-140%)				*114 %*				
Surrogate: aaa-TFT (FID) (75-130%)				*91 %*				
Sample ID: CLD0283-08 (MW8-32.5 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2907	1.0	ND	1	4/26/2002	4/26/2002	QG
Benzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Toluene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Ethylbenzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Xylenes, Total	EPA 8015B/8021	C2D2907	0.015	ND	1	4/26/2002	4/26/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2907	0.035	ND	1	4/26/2002	4/26/2002	
Surrogate: 4-BFB (PID) (75-140%)				*112 %*				
Surrogate: aaa-TFT (FID) (75-130%)				*93 %*				
Sample ID: CLD0283-09 (MW8-33 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2605	40	**230**	40	4/26/2002	4/29/2002	QG
Benzene	EPA 8015B/8021	C2D2605	0.20	**0.59**	40	4/26/2002	4/29/2002	
Toluene	EPA 8015B/8021	C2D2605	0.20	**0.39**	40	4/26/2002	4/29/2002	
Ethylbenzene	EPA 8015B/8021	C2D2605	0.20	**0.79**	40	4/26/2002	4/29/2002	
Xylenes, Total	EPA 8015B/8021	C2D2605	0.60	**2.1**	40	4/26/2002	4/29/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2605	1.4	ND	40	4/26/2002	4/29/2002	
Surrogate: 4-BFB (PID) (80-150%)				*165 %*				*ZX*
Surrogate: aaa-TFT (FID) (70-150%)				*84 %*				

[illegible]el Mar Analytical, Colton
[illegible]eanne Shoulder
Project Manager

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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0283

Sampled: 04/19/02
Received: 04/19/02

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: CLD0283-10 (MW8-34 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2605	40	**51**	40	4/26/2002	4/29/2002	QG
Benzene	EPA 8015B/8021	C2D2605	0.20	ND	40	4/26/2002	4/29/2002	
Toluene	EPA 8015B/8021	C2D2605	0.20	ND	40	4/26/2002	4/29/2002	
Ethylbenzene	EPA 8015B/8021	C2D2605	0.20	ND	40	4/26/2002	4/29/2002	
Xylenes, Total	EPA 8015B/8021	C2D2605	0.60	ND	40	4/26/2002	4/29/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2605	1.4	ND	40	4/26/2002	4/29/2002	
Surrogate: 4-BFB (PID) (80-150%)				*121 %*				
Surrogate: aaa-TFT (FID) (70-150%)				*86 %*				
Sample ID: CLD0283-11 (MW8-34.5 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2605	400	**3800**	400	4/26/2002	4/26/2002	QG
Benzene	EPA 8015B/8021	C2D2605	2.0	**7.7**	400	4/26/2002	4/26/2002	
Toluene	EPA 8015B/8021	C2D2605	2.0	**3.5**	400	4/26/2002	4/26/2002	
Ethylbenzene	EPA 8015B/8021	C2D2605	2.0	**29**	400	4/26/2002	4/26/2002	
Xylenes, Total	EPA 8015B/8021	C2D2605	6.0	**55**	400	4/26/2002	4/26/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2605	14	ND	400	4/26/2002	4/26/2002	
Surrogate: 4-BFB (PID) (80-150%)				*375 %*				*Z3*
Surrogate: aaa-TFT (FID) (70-150%)				*124 %*				
Sample ID: CLD0283-12 (MW8-35.5 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2605	100	**480**	100	4/26/2002	4/29/2002	QG
Benzene	EPA 8015B/8021	C2D2605	0.50	**1.4**	100	4/26/2002	4/29/2002	
Toluene	EPA 8015B/8021	C2D2605	0.50	**1.5**	100	4/26/2002	4/29/2002	
Ethylbenzene	EPA 8015B/8021	C2D2605	0.50	**1.8**	100	4/26/2002	4/29/2002	
Xylenes, Total	EPA 8015B/8021	C2D2605	1.5	**2.9**	100	4/26/2002	4/29/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2605	3.5	ND	100	4/26/2002	4/29/2002	
Surrogate: 4-BFB (PID) (80-150%)				*182 %*				*ZX*
Surrogate: aaa-TFT (FID) (70-150%)				*84 %*				

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Jeanne Shoulder
Project Manager

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2851 Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley ite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc: - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0283

Sampled: 04/19/02
Received: 04/19/02

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: CLD0283-13 (MW8-36 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2907	1.0	ND	1	4/26/2002	4/26/2002	QG
Benzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Toluene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Ethylbenzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Xylenes, Total	EPA 8015B/8021	C2D2907	0.015	ND	1	4/26/2002	4/26/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2907	0.035	ND	1	4/26/2002	4/26/2002	
Surrogate: 4-BFB (PID) (75-140%)				*114 %*				
Surrogate: aaa-TFT (FID) (75-130%)				*88 %*				
Sample ID: CLD0283-14 (MW8-37 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2605	100	**470**	100	4/26/2002	4/29/2002	QG
Benzene	EPA 8015B/8021	C2D2605	0.50	**0.93**	100	4/26/2002	4/29/2002	
Toluene	EPA 8015B/8021	C2D2605	0.50	**0.69**	100	4/26/2002	4/29/2002	
Ethylbenzene	EPA 8015B/8021	C2D2605	0.50	**2.7**	100	4/26/2002	4/29/2002	
Xylenes, Total	EPA 8015B/8021	C2D2605	1.5	**3.4**	100	4/26/2002	4/29/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2605	3.5	ND	100	4/26/2002	4/29/2002	
Surrogate: 4-BFB (PID) (80-150%)				*182 %*				*ZX*
Surrogate: aaa-TFT (FID) (70-150%)				*104 %*				
Sample ID: CLD0283-15 (MW8-37.5 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2907	1.0	ND	1	4/26/2002	4/26/2002	QG
Benzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Toluene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Ethylbenzene	EPA 8015B/8021	C2D2907	0.0050	ND	1	4/26/2002	4/26/2002	
Xylenes, Total	EPA 8015B/8021	C2D2907	0.015	ND	1	4/26/2002	4/26/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2907	0.035	ND	1	4/26/2002	4/26/2002	
Surrogate: 4-BFB (PID) (75-140%)				*110 %*				
Surrogate: aaa-TFT (FID) (75-130%)				*91 %*				

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anne Shoulder
Project Manager

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28[illegible] Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley [illegible]ite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0283

Sampled: 04/19/02
Received: 04/19/02

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/kg	mg/kg				
Sample ID: CLD0283-16 (MW8-38.5 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2605	40	**110**	40	4/26/2002	4/29/2002	QG
Benzene	EPA 8015B/8021	C2D2605	0.20	**0.25**	40	4/26/2002	4/29/2002	
Toluene	EPA 8015B/8021	C2D2605	0.20	ND	40	4/26/2002	4/29/2002	
Ethylbenzene	EPA 8015B/8021	C2D2605	0.20	**0.75**	40	4/26/2002	4/29/2002	
Xylenes, Total	EPA 8015B/8021	C2D2605	0.60	**1.0**	40	4/26/2002	4/29/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2605	1.4	ND	40	4/26/2002	4/29/2002	
Surrogate: 4-BFB (PID) (80-150%)				*129 %*				
Surrogate: aaa-TFT (FID) (70-150%)				*94 %*				
Sample ID: CLD0283-17 (MW8-39 - Soil)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2914	1.0	ND	1	4/29/2002	4/29/2002	QG
Benzene	EPA 8015B/8021	C2D2914	0.0050	ND	1	4/29/2002	4/29/2002	
Toluene	EPA 8015B/8021	C2D2914	0.0050	ND	1	4/29/2002	4/29/2002	
Ethylbenzene	EPA 8015B/8021	C2D2914	0.0050	ND	1	4/29/2002	4/29/2002	
Xylenes, Total	EPA 8015B/8021	C2D2914	0.015	ND	1	4/29/2002	4/29/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2914	0.035	ND	1	4/29/2002	4/29/2002	
Surrogate: 4-BFB (PID) (75-140%)				*115 %*				
Surrogate: aaa-TFT (FID) (75-130%)				*94 %*				
Sample ID: CLD0283-18 (MW8-39.5 - Soil)								**RL-1**
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2D2914	2.5	ND	2.5	4/29/2002	4/29/2002	QG
Benzene	EPA 8015B/8021	C2D2914	0.012	ND	2.5	4/29/2002	4/29/2002	
Toluene	EPA 8015B/8021	C2D2914	0.012	ND	2.5	4/29/2002	4/29/2002	
Ethylbenzene	EPA 8015B/8021	C2D2914	0.012	ND	2.5	4/29/2002	4/29/2002	
Xylenes, Total	EPA 8015B/8021	C2D2914	0.038	ND	2.5	4/29/2002	4/29/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2D2914	0.088	ND	2.5	4/29/2002	4/29/2002	
Surrogate: 4-BFB (PID) (75-140%)				*108 %*				
Surrogate: aaa-TFT (FID) (75-130%)				*92 %*				

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Project Manager

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1014 E. Cooley [illegible]ite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
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Report Number: CLD0283

Sampled: 04/19/02
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METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2D2605 Extracted: 04/26/02										
Blank Analyzed: 04/26/02 (C2D2605-BLK1)										
Volatile Fuel Hydrocarbons	ND	40	mg/kg							QG
Benzene	ND	0.20	mg/kg							
Toluene	ND	0.20	mg/kg							
Ethylbenzene	ND	0.20	mg/kg							
Xylenes, Total	ND	0.60	mg/kg							
Methyl-tert-butyl Ether (MTBE)	ND	1.4	mg/kg							
Surrogate: 4-BFB (PID)	*4.95*		*mg/kg*	*4.00*		*124*	*80-150*			
Surrogate: aaa-TFT (FID)	*3.47*		*mg/kg*	*4.00*		*87*	*70-150*			
LCS Analyzed: 04/26/02 (C2D2605-BS1)										
Volatile Fuel Hydrocarbons	45.5	40	mg/kg	44.0		103	85-140			QG
Benzene	4.44	0.20	mg/kg	4.00		111	75-120			
Toluene	3.97	0.20	mg/kg	4.00		99	75-115			
Ethylbenzene	4.52	0.20	mg/kg	4.00		113	80-120			
Xylenes, Total	12.9	0.60	mg/kg	12.0		108	75-120			
Methyl-tert-butyl Ether (MTBE)	70.0	1.4	mg/kg	60.0		117	60-140			
Surrogate: 4-BFB (PID)	*4.79*		*mg/kg*	*4.00*		*120*	*80-150*			
Surrogate: aaa-TFT (FID)	*3.50*		*mg/kg*	*4.00*		*88*	*70-150*			
LCS Dup Analyzed: 04/26/02 (C2D2605-BSD1)										
Volatile Fuel Hydrocarbons	41.9	40	mg/kg	44.0		95	85-140	8	15	QG
Benzene	4.33	0.20	mg/kg	4.00		108	75-120	3	15	
Toluene	3.89	0.20	mg/kg	4.00		97	75-115	2	15	
Ethylbenzene	4.48	0.20	mg/kg	4.00		112	80-120	1	15	
Xylenes, Total	12.8	0.60	mg/kg	12.0		107	75-120	1	15	
Methyl-tert-butyl Ether (MTBE)	72.6	1.4	mg/kg	60.0		121	60-140	4	15	
Surrogate: 4-BFB (PID)	*4.77*		*mg/kg*	*4.00*		*119*	*80-150*			
Surrogate: aaa-TFT (FID)	*3.32*		*mg/kg*	*4.00*		*83*	*70-150*			

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Jeanne Shoulder
Project Manager

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2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite C-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

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VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2D2907 Extracted: 04/26/02										
Blank Analyzed: 04/26/02 (C2D2907-BLK1)										
Volatile Fuel Hydrocarbons	ND	1.0	mg/kg							QG
Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	mg/kg							
Ethylbenzene	ND	0.0050	mg/kg							
Xylenes, Total	ND	0.015	mg/kg							
Methyl-tert-butyl Ether (MTBE)	ND	0.035	mg/kg							
Surrogate: 4-BFB (PID)	*0.0495*		*mg/kg*	*0.0400*		*124*	*75-140*			
Surrogate: aaa-TFT (FID)	*0.0347*		*mg/kg*	*0.0400*		*87*	*75-130*			
LCS Analyzed: 04/26/02 (C2D2907-BS1)										
Volatile Fuel Hydrocarbons	ND	1.0	mg/kg	0.440		96	80-135			QG
Benzene	0.0383	0.0050	mg/kg	0.0400		96	85-115			
Toluene	0.0346	0.0050	mg/kg	0.0400		87	80-115			
Ethylbenzene	0.0393	0.0050	mg/kg	0.0400		98	80-120			
Xylenes, Total	0.113	0.015	mg/kg	0.120		94	80-120			
Methyl-tert-butyl Ether (MTBE)	0.656	0.035	mg/kg	0.600		109	55-140			
Surrogate: 4-BFB (PID)	*0.0444*		*mg/kg*	*0.0400*		*111*	*75-140*			
Surrogate: aaa-TFT (FID)	*0.0378*		*mg/kg*	*0.0400*		*94*	*75-130*			
Matrix Spike Analyzed: 04/26/02 (C2D2907-MS1)					**Source: CLD0283-04**					
Volatile Fuel Hydrocarbons	ND	1.0	mg/kg	0.440	ND	83	55-135			QG
Benzene	0.0392	0.0050	mg/kg	0.0400	ND	98	80-120			
Toluene	0.0352	0.0050	mg/kg	0.0400	ND	87	80-115			
Ethylbenzene	0.0403	0.0050	mg/kg	0.0400	ND	101	80-120			
Xylenes, Total	0.115	0.015	mg/kg	0.120	ND	96	70-125			
Methyl-tert-butyl Ether (MTBE)	0.677	0.035	mg/kg	0.600	ND	113	65-140			
Surrogate: 4-BFB (PID)	*0.0456*		*mg/kg*	*0.0400*		*114*	*75-140*			
Surrogate: aaa-TFT (FID)	*0.0374*		*mg/kg*	*0.0400*		*94*	*75-130*			

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Project Manager

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285 [illegible] Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley [illegible] ite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

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VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2D2907 Extracted: 04/26/02										
Matrix Spike Dup Analyzed: 04/26/02 (C2D2907-MSD1)					**Source: CLD0283-04**					
Volatile Fuel Hydrocarbons	ND	1.0	mg/kg	0.440	ND	76	55-135	6	25	QG
Benzene	0.0394	0.0050	mg/kg	0.0400	ND	98	80-120	1	15	
Toluene	0.0354	0.0050	mg/kg	0.0400	ND	87	80-115	1	15	
Ethylbenzene	0.0406	0.0050	mg/kg	0.0400	ND	102	80-120	1	20	
Xylenes, Total	0.116	0.015	mg/kg	0.120	ND	97	70-125	1	15	
Methyl-tert-butyl Ether (MTBE)	0.693	0.035	mg/kg	0.600	ND	116	65-140	2	30	
Surrogate: 4-BFB (PID)	*0.0453*		*mg/kg*	*0.0400*		*113*	*75-140*			
Surrogate: aaa-TFT (FID)	*0.0370*		*mg/kg*	*0.0400*		*92*	*75-130*			
Batch: C2D2914 Extracted: 04/29/02										
Blank Analyzed: 04/29/02 (C2D2914-BLK1)										
Volatile Fuel Hydrocarbons	ND	1.0	mg/kg							QG
Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	mg/kg							
Ethylbenzene	ND	0.0050	mg/kg							
Xylenes, Total	ND	0.015	mg/kg							
Methyl-tert-butyl Ether (MTBE)	ND	0.035	mg/kg							
Surrogate: 4-BFB (PID)	*0.0448*		*mg/kg*	*0.0400*		*112*	*75-140*			
Surrogate: aaa-TFT (FID)	*0.0371*		*mg/kg*	*0.0400*		*93*	*75-130*			
LCS Analyzed: 04/29/02 (C2D2914-BS1)										
Volatile Fuel Hydrocarbons	ND	1.0	mg/kg	0.440		100	80-135			QG
Benzene	0.0409	0.0050	mg/kg	0.0400		102	85-115			
Toluene	0.0369	0.0050	mg/kg	0.0400		92	80-115			
Ethylbenzene	0.0407	0.0050	mg/kg	0.0400		102	80-120			
Xylenes, Total	0.119	0.015	mg/kg	0.120		99	80-120			
Methyl-tert-butyl Ether (MTBE)	0.710	0.035	mg/kg	0.600		118	55-140			
Surrogate: 4-BFB (PID)	*0.0456*		*mg/kg*	*0.0400*		*114*	*75-140*			
Surrogate: aaa-TFT (FID)	*0.0351*		*mg/kg*	*0.0400*		*88*	*75-130*			

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Project Manager

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28[illegible] Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley [illegible] ite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
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San Diego, CA 92120
Attention: Mike Gibbs

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METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2D2914 Extracted: 04/29/02										
Matrix Spike Analyzed: 04/29/02 (C2D2914-MS1)					**Source: CLD0283-17**					
Volatile Fuel Hydrocarbons	ND	1.0	mg/kg	0.440	ND	112	55-135			*QG*
Benzene	0.0387	0.0050	mg/kg	0.0400	ND	97	80-120			
Toluene	0.0349	0.0050	mg/kg	0.0400	ND	86	80-115			
Ethylbenzene	0.0404	0.0050	mg/kg	0.0400	ND	101	80-120			
Xylenes, Total	0.115	0.015	mg/kg	0.120	ND	96	70-125			
Methyl-tert-butyl Ether (MTBE)	0.685	0.035	mg/kg	0.600	ND	114	65-140			
Surrogate: 4-BFB (PID)	*0.0464*		*mg/kg*	*0.0400*		*116*	*75-140*			
Surrogate: aaa-TFT (FID)	*0.0366*		*mg/kg*	*0.0400*		*92*	*75-130*			
Matrix Spike Dup Analyzed: 04/29/02 (C2D2914-MSD1)					**Source: CLD0283-17**					
Volatile Fuel Hydrocarbons	ND	1.0	mg/kg	0.440	ND	111	55-135	1	25	*QG*
Benzene	0.0388	0.0050	mg/kg	0.0400	ND	97	80-120	0	15	
Toluene	0.0352	0.0050	mg/kg	0.0400	ND	87	80-115	1	15	
Ethylbenzene	0.0432	0.0050	mg/kg	0.0400	ND	108	80-120	7	20	
Xylenes, Total	0.116	0.015	mg/kg	0.120	ND	97	70-125	1	15	
Methyl-tert-butyl Ether (MTBE)	0.706	0.035	mg/kg	0.600	ND	118	65-140	3	30	
Surrogate: 4-BFB (PID)	*0.0473*		*mg/kg*	*0.0400*		*118*	*75-140*			
Surrogate: aaa-TFT (FID)	*0.0359*		*mg/kg*	*0.0400*		*90*	*75-130*			

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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285[illegible] Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley [illegible]te A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0283

Sampled: 04/19/02
Received: 04/19/02

DATA QUALIFIERS AND DEFINITIONS

QG	Carbon range C6-C12 quantitated against a gasoline standard.
RL-1	Reporting limit raised due to sample matrix effects.
Z3	The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

el Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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1014 E. Cooley Dr., Suite A Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (602) 785-0043 FAX (602) 785-0851
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (619) 505-9596 FAX (619) 505-9689

101441

CHAIN OF CUSTODY FORM

Quote No.: _____ Page: 1 of 2

Client Name: Enecotech
Address: 6160 Fairmont Ave, Suite A
City: San Diego State: CA Zip: 92120
Tel: (619) 299-0333 Fax.: (619) 299-0387
P.O./Project Number: 1686-201
Project Name: Wigington
Project Manager: Michael Gibbs
Sampler(s) (signature): [signature]

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	8015 (Gas) ☐ 8020 (BTEX) ☐	MTBE (8020) ☐	8015/8020/MTBE ☒	8015 (Diesel) ☐ fuel fingerprint ☐ simulated distillation ☐	Oil & Grease - EPA 413.2	TRPH - EPA 418.1	EPA 8010 ☐ EPA 8010/8020 ☐	EPA 8270	Title 22 Metals EPA 6010/7000 ☐ +Cr VI ☐	EPA 8260 ☐ + Oxygenates ☐ + MTBE ☐	Lead	pH
MW8 -5	Soil	4/19/02	09:50		1	Sleeve												
-10			09:55															
-20			10:00															
-25			10:05				X									X		
-29.5			10:10				X									X		
-31			10:15				X									X		
-31.5			10:20				X									X		
-32.5			10:26				X									X		
-33			10:25				X									X		
-34							X									X		

Relinquished by: [signature] Date/Time: 4/15/02 15:00
Received by: [signature] Date/Time: 4-19-02 1500
Relinquished by: Date/Time:
Received by: Date/Time:
Relinquished by: Date/Time:
Received in Lab by: Date/Time:
Remarks:

Turnaround Time: (check one)
Same Day ____ 72 hours ____
24 Hours ____ 5 Days ____
48 Hours ____ Standard X

Sample Integrity:
Intact: ____ On Ice ____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of the invoice. Sample(s) will be disposed of after 30 days.

COC-GT

Del Mar Analytical
2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (602) 785-0043 FAX (602) 785-0851
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (619) 505-9596 FAX (619) 505-9689

101454

CHAIN OF CUSTODY FORM

Quote No.: _____ Page: 2 of 2

Client Name: Fruehauf	P.O./Project Number: 1686-037
Address:	Project Name: Wilmington
City: State: Zip:	Project Manager:
Tel: Fax:	Sampler(s) (signature):

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	8015 (Gas) ☐ 8020 (BTEX) ☐ MTBE (8020) ☐ 8015/8020/MTBE ☒	8015 (Diesel) ☐ fuel fingerprint ☐ simulated distillation ☐	Oil & Grease - EPA 413.2	TRPH - EPA 418.1	EPA 8010 ☐ EPA 8010/8020 ☐	EPA 8270	Title 22 Metals EPA 6010/7000 ☐ +Cr VI ☐	EPA 8260 ☐ + Oxygenates ☐ + MTBE ☐ MTBE only ☒	Lead	pH
MW8 -34.5	Soil	4/19/02	10:30		1	Sleeve	X							X		
-35.5			↓				X							X		
-36			10:35				X							X		
-37			1				X							X		
-37.5			10:40				X							X		
-38.5			1				X							X		
-39			10:45				X							X		
-39.5	↓	↓	1		↓	↓	X							X		

Relinquished by:	Date/Time: 4/19/02 15:00	Received by:	Date/Time: 4-19-02 1500
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:

Remarks:

Turnaround Time: (check one)
Same Day ____ 72 hours ____
24 Hours ____ 5 Days ____
48 Hours ____ Standard X

Sample Integrity:
Intact: ____ On Ice ____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of the invoice. Sample(s) will be disposed of after 30 days.

COC-GT

APPENDIX C

TABLE A1: Well Construction Details

Field Forms: 1998-2002

- **Monitoring Well Gauging Form**
- **Well Purging Form**
- **Well Condition Form**

Standard Field Procedures

TABLE C1: Well Construction Details

Well	Boring Diameter	Casing Type	Casing Diameter	Slot Size	Slotted Interval	Total Depth	Filter	Comments
MW1	12"	PVC	4"	0.020"	22'-42'	46'	#3	Put in by EnecoTech Denver in 1988
MW2	12"	PVC	4"	0.020"	24'-44'	46'	#3	Put in by EnecoTech Denver in 1988
MW3	12"	PVC	4"	0.020"	24.5'-44.5'	46'	#3	Put in by EnecoTech Denver in 1988
MW4	12"	PVC	4"	0.020"	22'-42'	44'	#3	Put in by EnecoTech Denver in 1988
MW5	?	Concrete	12"	?	?	70+'	?	Water well-building built over
MW6	10"	PVC	4"	0.020"	17'-41'	42'	#3	2/01
MW7	10"	PVC	4"	0.020"	17'-41'	42'	#3	2/01
MW8	10"	PVC	4"	0.020"	20'-40'	40'	#3	4/02

Bold Column Headings = Minimum items to be entered in field

ENECOTECH SOUTHWEST, INC.
Monitoring Well Gauging Form

Sheet No. _____ of _____

Project No.: _____ **Project Name:** El Capitan O.C. **Gauged by:** Gums **Date:** 3/10/98

Well ID	Casing Elevation (ft above msl)	Depth to Water (feet)	Total Casing Depth (feet)	Sediment (feet)	Groundwater Elevation (GE) (ft above msl)	Depth to Product (feet)	Product Thickness (FP) (feet)	Corrected Groundwater Elevation (CGE) (ft above msl)
mw1	363.90	27.03	41.12			Ø		
mw2	366.07	28.75	44.75			Ø		
mw3	365.40	28.25	43.21			Ø		
mw4	362.95	26.46	41.55			Ø		
mw5	—	27.50	70+ bottom not Retrieved obstruction? tape hungup?			Ø		

*Water level correction based on free product depressing water table.

Equation: $GE + (FP \times SG_f/SG_w) = CGE$
Where:
GE = Measured Water Level
FP = Free Product Thickness
CGE = Corrected Water Level

Specific Gravities (unitless)
SG_f = free product = 0.8
SG_w = water = 1.0
SG_f/SG_w = 0.8

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April 7, 1993

WELL PURGING FORM

Project Name: El Capitan O.L **Project Number:** 02-01474-027

Date: 3/10/98 **Personnel:** Jm MS.

Well Designation	Initial Depth to Water (feet)	Depth to Casing Bottom (feet)	Borehole Volume (gallons)	Borehole Volume(s) Purged (gallons)	Corresponding Gallons Purged	Temp F°	Cond mV	pH	Time Stopped Purging	Time Sampled	Depth to Water at Time of Sample (feet)	Fast or Slow Recovery (circle one)
MW1	27.07	41.12	14.09' 10.70	~~1.0~~	11	75.4	0.71	7.83	10:40	11:15	27.03	(F) / S
				~~1.5~~ 1.0	16	75.4	0.74	7.70				
				~~2.0~~ 1.5	19.5	77.6	0.70	7.56				
MW2 MW3 Jm	28.25	43.21	14.96 17.76	1.0	14	—	—	—	12:10	12:45	28.54	(F) / S
				1.5	20	77.2	0.99	6.90				
				2.0	28	77.1	0.98	6.96				
~~MW3~~ MW2 Jm	28.75	44.75	16 14.92	1.0	15	76.3	2.13	6.52	1120 DTW 42' : 1205 40	13:18	37.45	F / (S)
				1.5	22	Dry						
				2.0	30							
MW4	26.46	41.55	15.09 13.88	1.0	14	74.0	1.19	7.09	13:45	14:46	26.47	(F) / S
				1.5	21	74.8	1.20	7.15				
				2.0	28	—	—	—				
MW5	27.50	70+ tape hung up on hoses & Pipe?	..	1.0	Sample standing water column.				:	:		F / S
				1.5								
				2.0								
				1.0					:	:		F / S
				1.5								
				2.0								

WELL CONDITION FORM

ate: 3/10/98

ersonnel: JH, MS, _____ (Initials)

Project Number: 02-01474.001

Project Name: woodside ave

Well No.	Cover Diameter	Type/ Brand	Outside Concrete Seal (✓)	Inner Concrete Seal (✓)	No H^2O in Vault (✓)	Gasket Condition (✓)	Mark for Survey top & side (✓)	Cover & Bolts (✓)	Lock & Lock'g Cap (✓)	Comments
MW1	12"	E	adjacent slab	✓	1/4"	OK	Yes	2 of 2	✓	needs cleaning
MW2	12	E	cracked 1"	cracked 1/8	✓	fair	yes	2 of 2	✓	need sealant, seal + clean
MW3	12'	Pomeco Morrison	adjacent slab	✓	✓	none	1/99	3 of 3	✓	one Hex
MW4	12"	Pomeco	adjacent slab	unknown	✓	none	yes	0 of 0	✓	needs cleaning

Check the following during each visit:

1. Clean gasket with brush - spray with silicon (well cap on and covered with bag).
2. Get water out of vault.
3. Spray lock with silicon. Spray bolt threads with silicon. Use tap if needed.

General: Should not be able to read lock numbers. Is locking top and lock number the same for entire site?

Bold Column Headings = Minimum items to be entered in field

ENECOTECH SOUTHWEST, INC.
Monitoring Well Gauging Form

Sheet No. 1 of 1

Project No.: 02-01686-001 Project Name: EL CAPITAN OIL Gauged by: GJ Date: 4-4/5/00

Well ID	Casing Elevation (ft above msl)	Depth to Water (feet)	Total Casing Depth (feet)	Sediment (feet)	Groundwater Elevation (GE) (ft above msl)	Depth to Product (feet)	Product Thickness (FP) (feet)	Corrected Groundwater Elevation (CGE) (ft above msl)
MW1	363.90	29.62	42.15		334.28	~~0~~		
MW2	365.40	32.23	44.28		333.17	1		
MW3	366.07	36.65	43.18		329.42	1		
MW4	362.90	29.98	41.35		332.92	1		
4/5/00 MW3	366.07	30.85			335.22			

*Water level correction based on free product depressing water table.

Equation: GE + (FP X SG/SG$_w$) = CGE
Where:
GE = Measured Water Level
FP = Free Product Thickness
CGE = Corrected Water Level

Specific Gravities (unitless)
SG$_f$ = free product = 0.8
SG$_w$ = water = 1.0
SG/SG$_w$ = 0.8

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April 7, 1993

[redacted] SOUTHWEST, INC.

WELL PURGING FORM

5168C-351

Project Name: EL CAPITAN OIL

Project Number: ~~021474-007~~

Date: 4-4-00

Personnel: GT

Well Designation	Initial Depth to Water (feet)	Depth to Casing Bottom (feet)	Borehole Volume (gallons)	Borehole Volume(s) Purged (gallons)	Corresponding Gallons Purged	Temp °F	Cond mV	pH	Time Stopped Purging	Time Sampled	Depth to Water at Time of Sample (feet)	Fast or Slow Recovery (circle one)	
MW3	36.65	43.18	6.53 6.0 .921	1.0	6.0	74.6	1.22	6.97					DC
				1.5	9	74.8	1.09	6.82	09:15	11:20	37.15	(F) S	5.
				2.0	12	75.7	1.08	6.64			37.95		
MW2	32.23	44.28	12.05 11.0 .921	1.0	11.0	73.9	2.09	6.92					
				1.5	16.5	purged DRY			10:20	12:30	35.72	(F) I S	4
				2.0	22.0	APROX 13gal					34.64		
MW1	29.62	42.15	12.53 11.5 .921	1.0	11.5	70.5	1.04	8.48					
				1.5	17	72.2	1.02	7.86	08:40	10:54	35.15	F (S)	4.
				2.0	23	72.4	1.04	7.65			32.12		
MW4	29.98	41.35	11.37 10.4 .921	1.0	10.4	72.2	1.37	7.72					
				1.5	15.6	72.1	1.29	7.13	11:15	13:23	33.68	(F) I S	4
				2.0	20.8	72.0	1.28	7.04			32.25		
				1.0									
				1.5					:	:		F / S	
				2.0									
				1.0									
				1.5					:	:		F / S	
				2.0									

WELL CONDITION FORM

Date: 4/04/00

Personnel: GS, _____, _____ (Initials)

Project Number: 01686-001 (02-01474-007)

Project Name: EL CAPITAN OIL

Well No.	Cover Diameter	Type/ Brand	Outside Concrete Seal (✓)	Inner Concrete Seal (✓)	No H^2O in Vault (✓)	Gasket Condition (✓)	Mark for Survey top & side (✓)	Cover & Bolts (✓)	Lock & Lock'g Cap (✓)	Comments
MW1	8"	EMCO	✓	✓	✓	✓	✓	✓	✓	
MW2	8"	EMCO	✓	✓	✓	✓	✓	✓	✓	
MW3	8"	EMCO	✓	✓	✓	✓	✓	✓	✓	
MW4	8"	EMCO	✓	✓	✓	✓	✓	✓	✓	

Check the following during each visit:

1. Clean gasket with brush - spray with silicon (well cap on and covered with bag).
2. Get water out of vault.
3. Spray lock with silicon. Spray bolt threads with silicon. Use tap if needed.

General: Should not be able to read lock numbers. Is locking top and lock number the same for entire site?

Bold Column Headings =
Minimum items to be entered in field

ENECOTECH SOUTHWEST, INC.
Monitoring Well Gauging Form

Sheet No. 1 of 1

Project No.: 02-01686-001 Project Name: Wisington Gauged by: EIC Date: 4/26/02

Well ID	Casing Elevation (ft above msl)	Depth to Water (feet)	Total Casing Depth (feet)	Sediment (feet)	Groundwater Elevation (GE) (ft above msl)	Depth to Product (feet)	Product Thickness (FP) (feet)	Corrected Groundwater Elevation (CGE) (ft above msl)
MW1		30.21	41.18	—		—	—	
MW2		31.72	44.47	—		29.22	2.50	
MW3		34.37	43.25	—		*		
MW4		29.60	41.71	—		27.50	2.10	
MW5		30.39	—	—		—	—	
MW6		29.77	42.10	—		—	—	
MW7		29.47	42.36	—		—	—	
MW8		31.71	39.58	—		—	—	

*Water level correction based on free product depressing water table.

* Could not get an accurate Measurement

Equation: GE + (FP X SG/SG$_w$) = CGE
Where: GE = Measured Water Level
FP = Free Product Thickness
CGE = Corrected Water Level

Specific Gravities (unitless)
SG$_f$ = free product = 0.8
SG$_w$ = water = 1.0
SG/SG$_w$ = 0.8

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April 7, 1993

[redacted]

WELL PURGING FORM

Project Name: Nisinyton

Project Number: 02-01886-001

Date: 4/26/02

Personnel: EK, DV

Well Designation	Initial Depth to Water (feet)	Depth to Casing Bottom (feet)	Borehole Volume (gallons)	Borehole Volume(s) Purged (gallons)	Cumulative Gallons Purged	Temp °F	Cond mV	pH	Time Stopped Purging	Time Sampled	Depth to Water at Time of Sample (feet)	Fast or Slow Recovery (circle one)
MW1	30.21	41.18	10.97 × 1.141 = 12.52	1.0	12.52	68.3	7.26	7.09				
				1.5	18.78	71.1	7.57	6.92	8059	9:45	30.21	F / S
				2.0	25.04	71.9	7.75	6.91				
MW3	31.37	43.24	11.87 × 1.141 = 13.54	1.0	13.54	71.2	7.97	7.28				
				1.5	17.81	69.1	8.62	7.12	12:00	13:40	31.81	F / S
				2.0	27.08	71.7	8.63	6.83				
MW5	30.31			1.0	Sampled Strain							
				1.5	water				:	12:15	30.37	F / S
				2.0								
MW2 2½"	31.72	44.47	12.75 × 1.141 = 14.55	1.0	14.5	71.8	14.43	5.1	13:15	15:00	28.21	
				1.5	21.3	purged dry @ 15:29			:	:		F / S
				2.0	29							
MW7	29.47	42.36	12.89 × 1.141 = 14.71	1.0	14.7	68.9	9.65	5.14				
				1.5	22	67.3	9.68	5.38	14:59	15:37	29.45	F / S
				2.0	29.4	67.5	9.64	5.16				
MW4 2½"	29.60	41.71	12.11 × 1.141 = 13.81	1.0	13.8	67.3	9.26	5.28				
				1.5	20.7	69.8	9.32	5.44	15:30	16:15	29.67	F / S
				2.0	27.0	68.9	9.29	5.16				

MW6 NOT SAMPLED

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Updated April 19, 1993

ENECOTECH SOUTHWEST, INC.

WELL PURGING FORM

Project Name: Wigington

Project Number: 02-01686-001

Date: 4/26/02

Personnel: EG, DV

Well Designation	Initial Depth to Water (feet)	Depth to Casing Bottom (feet)	Borehole Volume (gallons)	Borehole Volume(s) Purged (gallons)	Corresponding Gallons Purged	Temp °F	Cond mV	pH	Time Stopped Purging	Time Sampled	Depth to Water at Time of Sample (feet)	Fast or Slow Recovery (circle one)
MW6 No FP	29.77	42.10	12.33 14.07 1.141	1.0	14	68.4	8.91	5.22	16:12	[illegible]	30.78	F S
				1.5	21.0	67.2	8.86	5.17				
				2.0	28	67.9	9.06	5.14				
MW8 No FP	31.71	39.58	7.87 8.98 1.141	1.0	9	66.8	8.82	5.29	16:45	17:30	31.79	F S
				1.5	13.5	67.2	8.88	5.28				
				2.0	18	67.2	8.80	5.30				
				1.0					:	:		F / S
				1.5								
				2.0								
				1.0					:	:		F / S
				1.5								
				2.0								
				1.0					:	:		F / S
				1.5								
				2.0								
				1.0					:	:		F / S
				1.5								
				2.0								

WELL CONDITION FORM

Date: 4/26/02

Personnel: RK, DV, MG (Initials)

Project Number: 02-01886-001

Project Name: Wigyton

Well No.	Cover Diameter	Type/ Brand	Outside Concrete Seal (✓)	Inner Concrete Seal (✓)	No H^2O in Vault (✓)	Gasket Condition (✓)	Mark for Survey top & side (✓)	Cover & Bolts (✓)	Lock & Lock'g Cap (✓)	Comments
MW1	12"	Emco	✓	✓	✓	✓	✓	✓	✓	
MW2	12"	Emco	✓	✓	✓	✓	✓	✓	✓	
MW3			✓	✓	Full of Water	No Gasket	✓	No Bolts	✓	
MW4	12"	Emco	✓	✓	✓	✓	✓	✓	✓	
MW5			✓	✓	✓	No Gasket	✓	No Bolts	✓	
MW6	12"	~~Emco~~	✓	✓	✓	✓	✓	No Bolt	✓	
MW7	12"	Emco	✓	✓	✓	✓	✓	✓	✓	
MW8	12"	Emco	✓	✓	✓	✓	✓	✓	✓	

Check the following during each visit:

1. Clean gasket with brush - spray with silicon (well cap on and covered with bag).
2. Get water out of vault.
3. Spray lock with silicon. Spray bolt threads with silicon. Use tap if needed.

General: Should not be able to read lock numbers. Is locking top and lock number the same for entire site?

STANDARD FIELD PROCEDURES

DRILLING AND SOIL SAMPLING

Soil borings are drilled using a truck-mounted hollow stem auger drill operated by a C-57 licensed drilling company. The rig is equipped with 10-inch hollow stem augers. Augers are steam cleaned between borings to prevent cross contamination, and auger cleaning rinsate is contained in 55-gallon Department of Transportation (DOT)-approved drums stored onsite.

Soil samples are retrieved using a split spoon sampler fitted with 1.5-inch diameter stainless steel sleeves, driven into the ground with a rig operated safety hammer. Relative penetration resistance is measured by counting the number of hammer blows (blow counts) required to drive the sampler a distance of 18 inches in 6-inch increments. Blow counts are recorded on boring logs. One stainless steel sleeve from each sampling depth is sealed with Teflon tape, capped, labeled and placed into an ice chest with blue ice or refrigerated at approximately 4° Celsius until transported to a state-certified laboratory.

A second stainless steel sleeve from each sampling depth is emptied into a zip-lock plastic bag, which is sealed and gently agitated to facilitate volatilization of organic vapors. A portable photo-ionization detector (PID) is used to measure organic vapor concentrations, which are then recorded on the boring logs. The PID has been calibrated with 100 ppm isobutylene.

The scientist in the field uses the remaining recovered sample to describe the soil in accordance with the Unified Soil Classification System (USCS). Additionally, a qualitative characterization of contamination is made based upon any observed petroleum hydrocarbon odors and/or soil discoloration. These observations and USCS descriptions are included in the boring logs, which are reviewed by a California Registered Geologist.

All sampling equipment is washed before sampling in an Alconox solution and thoroughly rinsed. Cleaning rinsate and soil cuttings from drilling operations are contained in labeled 55-gallon DOT approved drums. Borings are destroyed using bentonite, or bentonite grout. The disposition of the soil and the decontamination rinsate depends upon the results of chemical analyses.

Each sample container submitted for analyses has a label affixed with a unique sample designation, job name, date sampled, and time of collection. A chain of custody form is used to document sample possession from the time of collection to the time of delivery to the laboratory. When possession of the samples is transferred, the persons relinquishing and receiving possession sign and date the chain of custody form. The sample control officer at the laboratory verifies sample integrity and confirms that the sample is of sufficient quantity for the requested analyses.

WELL CONSTRUCTION

Wells are constructed in conformance with the general guidelines of the California Department of Water Resources and the Site Assessment and Mitigation (SAM) Manual according to the site specific permit application that is filed with the SAM. In general, wells are constructed with factory-prepared blank and perforated schedule 40 PVC casing, new sand filter pack, bentonite and concrete seals, and traffic rated covers.

Wells are developed during construction by surge block agitation after filter pack installation and installation of the bentonite seal or by hand bailing. No water is added or withdrawn during the development process. In the event that water is not present in the well at the time of installation, the well is developed by hand bailing three borehole volumes prior to sampling.

WELL GAUGING, PURGING, AND SAMPLING

Prior to purging and sampling, static groundwater levels in each monitoring well are measured using colorimetric water-sensing paste and a metal tape measure. Gasoline-sensing paste and a metal tape measure are used to detect and measure any free product.

Each well is then purged of at least one borehole volume of water (see calculations below) using a polyethylene bailer. Measurements of pH, temperature, and electrical conductivity are recorded, and purging is continued in one-half borehole volume increments until pH, temperature, and electrical conductivity measurements are stable (i.e., within 10%). Wells with clean environmental engineering groundwater extraction pumps are purged of the required three borehole volumes of water prior to sampling. All purged water is discharged through the groundwater treatment system.

Once purging is complete, the well is allowed to recover to within 80% of its static condition (or until two hours have passed). As soon as sufficient volume is available, groundwater samples are retrieved using a disposable bailer and collected in a minimum of three laboratory-provided Volatile Organic Analysis vials with a Teflon-lined septum. Sample containers are examined to assess that no headspace is present then stored in a chilled ice chest or refrigerated at 4° Celsius until transported to a state-certified laboratory for appropriate chemical analysis. Cross-contamination between wells is avoided by taking a number of precautions, including purging and sampling wells in a specific sequence (cleanest to dirtiest) using disposable or dedicated bailers and new gloves and clean equipment for each well.

One borehole volume is calculated according to the formula in the current SAM Manual. The calculation assumes a filter pack porosity of 25%.

For a 8" diameter borehole containing a 2" diameter casing,
one borehole volume (gal) = 0.776 x (WD-GW)

For a 10" diameter borehole containing a 4" diameter casing,
one borehole volume (gal) = 1.509 x (WD-GW)

Where (WD-GW) is the well depth - depth to groundwater, i.e., the height (in feet) of the water column in the well.

APPENDIX D

Groundwater Laboratory Reports 1998 - 2002

Del Mar Analytical

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16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-8401

Eneco Tech Southwest
2535 Camino del Rio South, #250
San Diego, CA 92108
Attention: Mike Gibbs

Client Project ID: El Capitan Oil

Analysis Method: EPA 5030/CA DHS Mod. 8015/8020
First Sample #: C8030742

Sampled: Mar 10, 1998
Received: Mar 10, 1998
Extracted: Mar 14-16, 1998
Analyzed: Mar 14-16, 1998
Reported: Mar 19, 1998

BTEX DISTINCTION (EPA METHOD 8020)

Laboratory Number	Sample Description Water	Benzene µg/L (ppb)	Toluene µg/L (ppb)	Ethyl Benzene µg/L (ppb)	Total Xylenes µg/L (ppb)
C8030742	**MW1B**	**340**	**200**	**18**	**240**
Dilution: 4	Reporting Limit:	1.2	1.2	1.2	2.4
C8030744	~~MW2B~~ mw3B	**3.6**	**0.70**	**0.70**	**4.1**
Dilution: 1	Reporting Limit:	0.30	0.30	0.30	0.60
C8030746	~~MW3B~~ mw2B	**20**	**3.3**	**25**	**47**
Dilution: 4	Reporting Limit:	1.2	1.2	1.2	2.4
C8030748	**MW4B**	**2,400**	**250**	**50**	**430**
Dilution: 40	Reporting Limit:	12	12	12	24
C8030749	**MW5A**	**20**	**0.60**	**N.D.**	**39**
Dilution: 1	Reporting Limit:	0.30	0.30	0.30	0.60
Method Blank		**N.D.**	**N.D.**	**N.D.**	**N.D.**
Dilution: 1	Reporting Limit:	0.30	0.30	0.30	0.60

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C4 to C10. Analytes reported as N.D. were not present at or above the reporting limit. Dilution factors are due to matrix effects and other factors.

DEL MAR ANALYTICAL (ELAP #1169)

Alma Borcuk
Laboratory Manager

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-3401

Eneco Tech Southwest
2535 Camino del Rio South, #250
San Diego, CA 92108
Attention: Mike Gibbs

Client Project ID: El Capitan Oil
Analysis Method: EPA 5030/8020
First Sample #: C8030742

Sampled: Mar 10, 1998
Received: Mar 10, 1998
Extracted: Mar 14-16, 1998
Analyzed: Mar 14-16, 1998
Reported: Mar 19, 1998

MTBE (EPA 8020 MODIFIED)

Laboratory Number	Sample Description Water	Sample Result µg/L (ppb)	Reporting Limit µg/L (ppb)	Dilution Factor
C8030742	MW1B	190	40	4.0
C8030744	~~MW2B~~ mw3B jm	63	10	1.0
C8030746	~~MW3B~~ mw2B jm	2,000	1,000	100
C8030748	MW4B	4,100	400	40
C8030749	MW5A	92	10	1.0
Method Blank		N.D.	10	1.0

MTBE = Methyl tert-Butyl Ether

Analytes reported as N.D. were not present at or above the reporting limit. Dilution factors are due to matrix effects and other factors.

DEL MAR ANALYTICAL, (ELAP #1169)

Alma Borcuk
Laboratory Manager

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2465 W. 12th St., Suite I, Tempe, AZ 85281 (602) 968-8272 FAX (602) 966-3401

Eneco Tech Southwest
2535 Camino del Rio South, #250
San Diego, CA 92108
Attention: Mike Gibbs

Client Project ID: El Capitan Oil

Analysis Method: EPA 3510/CA DHS Mod. 8015
First Sample #:

Sampled: Mar 10, 1998
Received: Mar 10, 1998
Extracted: Mar 17, 1998
Analyzed: Mar 14-18, 1998
Reported: Mar 19, 1998

VOLATILE AND EXTRACTABLE FUEL HYDROCARBONS (CA DHS Mod. EPA 8015)

Laboratory Number	Sample Description Water	Sample Result µg/L (ppb)	Reporting Limit µg/L (ppb)	Dilution Factor	Hydrocarbon Type	Date Analyzed
C8030742	MW1B	2,500	200	4	C4-C10	Mar 16, 1998
		910	500	1	C11-C18	Mar 18, 1998
C8030744	~~MW2B~~ MW3B	330	50	1	C4-C10	Mar 14, 1998
		N.D.	500	1	N.A.	Mar 18, 1998
C8030746	~~MW3B~~ MW2B	2,300	200	4	C4-C10	Mar 16, 1998
		5,100	500	1	C11-C19	Mar 18, 1998
C8030748	MW4B	9,600	2000	40	C4-C10	Mar 14, 1998
		3,700	500	1	C11-C19	Mar 18, 1998
C8030749	MW5A	730	50	1	C4-C10	Mar 14, 1998
		1,700	500	1	C11-C19	Mar 18, 1998
Method Blank		N.D.	50	1	N.A.	Mar 14, 16, 1998
		N.D.	500	1	N.A.	Mar 18, 1998

Volatile Fuel Hydrocarbons are quantitated against a gasoline standard. Hydrocarbons detected by this method range from C4 to C10.
Extractable Hydrocarbons are quantitated against a diesel fuel standard. Hydrocarbons detected by this method range from C11 to C40.
Analytes reported as N.D. were not present at or above the reporting limit. Dilution factors are due to matrix effects and other factors.

DEL MAR ANALYTICAL (ELAP #1169)

Alma Borcuk
Laboratory Manager

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-3401

LCS/LCSD Data Sheet

Method: EPA 8015 Modified
Matrix: Water

Date: 3/18/98 **Extraction Date:** 3/17/98

Sample #: Blank

Batch: 31798

Analyte	R1	Sp	LCS	LCSD	PR1	PR2	RPD	MEAN PR	Acceptance Limits	
									RPD	Mean PR
	ppm	ppm	ppm	ppm	%	%	%	%	%	%
Diesel	0	5.0	3.4	3.8	68%	76%	11%	72%	30	45-140

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

LCS..... Laboratory Control Sample Result

LCSD..... Laboratory Control Sample Duplicate Result

PR1..... Percent Recovery of LCS; ((LCS-R1) / SP) X 100

PR2..... Percent Recovery of LCSD; ((LCSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((LCS-LCSD)/(LCS+LCSD)/2) X 100

Acceptance Limits..... Statistically determined on an annual basis.

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MS/MSD DATA REPORT

EPA Method 8015/8020

Matrix: Water

Date: 03/14/98

Sample #: LBS

Batch #: HC14G12W

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	Mean PR	Acceptance Limits	
	ppb	ppb	ppb	ppb	%	%	%	%	RPD	Mean PR
TPH	0	200	224	222	112	111	0.91	111	≤30	78 - 130
Benzene	0	20	20	20	100	99	1.8	100	≤10	82 - 120
Toluene	0	20	20	20	102	100	2.0	101	≤10	85 - 118
Ethylbenzene	0	20	20	19	99	97	2.4	98	≤10	85 - 119
Xylenes	0	60	63	62	105	103	2.2	104	≤10	85 - 124

Definition of Terms

R1..... Result of Sample Analysis
Sp..... Spike Concentration added to sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; ((MS-R1)/SP) X 100
PR2..... Percent Recovery of MSD; ((MSD-R1)/SP) X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2) X 100
Mean PR..... Mean Percent Recovery
Acceptance Limits..... Determined by in-house Control Charts

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MS/MSD DATA REPORT

EPA Method 8015/8020

Matrix: Water

Date: 03/16/98

Sample #: C8030893

Batch #: HC16G12W

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	Mean PR	Acceptance Limits	
	ppb	ppb	ppb	ppb	%	%	%	%	RPD	Mean PR
TPH	0	200	148	157	74	79	6.0	76	≤30	70 - 126
Benzene	0	20	21	20	107	102	4.8	104	≤20	70 - 126
Toluene	0	20	22	21	109	104	4.7	106	≤25	70 - 130
Ethylbenzene	0	20	21	21	106	103	3.5	104	≤18	70 - 127
Xylenes	0	60	70	68	117	113	3.6	115	≤21	75 - 130

Definition of Terms

R1..... Result of Sample Analysis
Sp..... Spike Concentration added to sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; ((MS-R1)/SP) X 100
PR2..... Percent Recovery of MSD; ((MSD-R1)/SP) X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2) X 100
Mean PR..... Mean Percent Recovery
Acceptance Limits..... Determined by in-house Control Charts

Del Mar Analytical

EnecoTech
ENVIRONMENTAL CONSULTANTS

CHAIN OF CUSTODY RECORD

2535 Camino Del Rio South • Suite 250 • San Diego, CA 92108

COC CA # 0514

PROJ. NO.

PROJECT NAME: El Capitan O.L

SAMPLERS: (Signature)

Ship To:

EnecoTech contact : Mike Gibbs

STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS VOA's	C10-C40 6-Cyc	Epa 8015 Drilling w/11 Cyc	Epa 8015/8020+MTBE	Total Pb *	Remarks/Bottle No.
MW1A	3/9/98	1001		X	water	3					Preserved w/HCl
MW1B		1115					X	X			
MW2A		1150									
MW2B		1245					X	X			
MW3A		1103									
MW3B		1318					X	X			
MW4A		1309									
MW4B		~~1316~~					X	X			
MW5A		1414					X	X			

* Run Pb on water TVH

Normal

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	3/10/98 1455			3/11/98 10:52 AM	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks	
			3-12-98 1052		

Distribution: Original Accompanies Shipment, First Copy to Coordinator Field Files; Second Copy to Representative of Inspected Facility

Split Samples: ☐ Accepted ☐ Declined Signature

1474-001

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-3401

MAR 25

Eneco Tech Southwest	Client Project ID: El Capitan Oil (Add-On)	Sampled:	Mar 10, 1998
2535 Camino del Rio South, #250		Received:	Mar 10, 1998
San Diego, CA 92108	Sample Descript: Water	Extracted:	Mar 19, 1998
Attention: John Royal	First Sample #: C8031111	Analyzed:	Mar 19, 1998
		Reported:	Mar 20, 1998

TOTAL LEAD (EPA 7421)

Laboratory Number	Sample Description	Sample Result mg/L (ppm)
C8031111	MW3B	N.D.
C8031112	MW4B	N.D.
Method Blank		N.D.

Reporting Limit:	**0.0050**

Analytes reported as N.D. were not present at or above the reporting limit.

DEL MAR ANALYTICAL (ELAP #1169)

Alma Borcuk
Laboratory Manager

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MS/MSD Data Report

Method: Metals
Instrument: GFAA
Matrix: Water

Date: 3/19/98

Sample #: C8030911

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Lead	0	0.030	0.032	0.032	107%	107%	0.0%	107%

Definition of Terms:

R1..... Result of Sample Analysis
Sp..... Spike Concentration Added to Sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

ADDITIONAL ANALYSIS REQUEST FORM

DATE: 3/19 CLIENT: ENE2 CONTACT: John Royal

REQUEST VIA: ☐Telephone ☐Fax ☒C.O.C. Form ☐Other (SPECIFY) _____

PROJECT: El Capitan Oil DMAC PROJECT #: ENE230741 DATE RECEIVED: 3/10

STATUS: ☐In Progress ☐Received Today ☒Completed (DATE) 3/19 ☐Other _____

	SAMPLE NUMBER	DESCRIPTION	MATRIX/CONT.	SAMPLE DATE	ANALYSIS REQUESTED	NOTES
1.	C803074 6	MW3B	Water	3/10	total Pb	~~3/24~~
2.	↓ 748	MW4B	↓	↓	↓	
3.						
4.						
5.						
6.						
7.						
8.						
9.						
10.						

TURNAROUND: ☐Same Day ☐24-Hr ☐48-Hr ☐3-Day ☐5-Day ☒Standard ☐No Rush Charge

REQUEST TAKEN BY: Cynthia DATE DUE: ~~3/24~~ 3/26

FORM 4
Revised 11/95

Enecotech

CHAIN OF CUSTODY RECORD

2535 Camino Del Rio South • Suite 250 • San Diego, CA 92108

COC CA # 0514

PROJ. NO.	PROJECT NAME
	El Capitan Oil

SAMPLERS: (Signature) John Byl

Ship To:

EnecoTech contact : Mike Gibbs

STAT. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS VOA's	C10-C40 EPA 8015 Tillery w/ silica gel cleanup	C6-C40 EPA 8015/8020 + MTBE	4-Oxy's + Total Pb *	Remarks/Bottle No.
MW1A	3/9/98	1001		X	water	3	X	X		Preserved w/HCl
MW1B		1115								
W2A		1150					X	X		
MW2B		1245								
MW3A		1103					X	X		
MW3B		1318								
MW4A		1309					X	X	X	
MW4B		~~1446~~ 1446								
MW5A	↓	1414					X	X	X	

* Run Pb on highest TVH

changed per John 3/12

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
John Byl	3/10/98 1455	Diego Hoogs 3/10/98 1455	Diego Hoogs	Normal 3/12/98 10:52 AM	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks	
		Kat Ll.	3-12-98 1052		

Distribution: Original Accompanies Shipment. First Copy to Coordinator Field Files. Second Copy to Representative of Inspected Facility

Split Samples: ☐ Accepted ☐ Declined Signature

Pacific Treatment
Analytical Services, Inc.

4340 Viewridge Avenue, Suite A • San Diego, CA 92123
(619) 560-7717 • Fax (619) 560-7763
Analytical Chemistry Laboratory

May 27, 1998

Tetra Tech EM, Inc.
Attn: Greg Alyanakian
591 Camino De La Reina, Ste. 640
San Diego, California 92108

Project Name/No.: El Capitan Oil
Laboratory Log No.: 1031-98
Date Received: 05/19/98
Sample Matrix: Two water samples
PO No.: None

Please find the following enclosures for the above referenced project identified:

1) Analytical Report
2) QA/QC Report
3) Chain of Custody Form

.....Certificate of Analysis.....

Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. Date of extraction, date of analysis, detection limits and dilution factor are reported for each compound analyzed. All samples were analyzed within the method required holding time from sample collection.

A minimum of 90% of the data for each analytical method is associated with acceptable quality control criteria. Determinations of completion were made by assessing the following QA/QC functions, as applicable to methodology:

- Surrogate Percent Recovery,
  Laboratory Control Sample (LCS) percent recoveries for all analyses,
- Matrix Spike Recovery/Matrix Spike Duplicate Recovery (MSR & MSDR) and
  Relative Percent Difference (RPD from MSR & MSDR).

I certify that this data report is in compliance both technically and for completeness. Release of the data contained in this hardcopy data report has been authorized by the following signature.

Janis Columbo
Vice President/Laboratory Director

MAY-28-98 08:35 FROM:TETRA TECH ID:8197189598 PAGE 2

ANALYSIS RESULTS - EPA 8020
AROMATIC VOLATILE ORGANIC COMPOUNDS

CLIENT: TETRA TECH EM, INC.

PROJECT NAME/No.: EL CAPITAN OIL
PTAS LOG #: METHOD BLANK
SAMPLE ID: N/A
DILUTION FACTOR: 1

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE ANALYZED: 05/22/98
MATRIX: WATER
SAMPLE VOL./WT.: 5 ML

ANALYTE	REPORTING LIMIT PPB (UG/L)	RESULTS PPB (UG/L)
MTBE	0.5	ND
BENZENE	0.5	ND
TOLUENE	0.5	ND
ETHYLBENZENE	0.5	ND
XYLENES(TOTAL)	1.0	ND

MASS SPEC. CONFIRMATION PERFORMED ON ALL DETECTED ANALYTES.
ND = NON DETECT AT OR ABOVE INDICATED REPORTING LIMIT
REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE SPIKE DATA	ACCEPTABLE CRITERIA	% RECOVERY
4-CHLOROTOLUENE	56-140	94

Pacific Treatment Analytical Services, Inc. 4340 Viewridge Ave., Suite A • San Diego, CA 92123 (619) 560-7717 FAX (619) 560-7763

MAY-28-98 08:38 FROM:TETRA TECH ID:6197189598 PAGE 4/

ANALYSIS RESULTS - EPA 8020
AROMATIC VOLATILE ORGANIC COMPOUNDS

CLIENT: TETRA TECH EM, INC.

PROJECT NAME/No.: EL CAPITAN OIL
PTAS LOG #: 1031-98-1
SAMPLE ID: MW-01
DILUTION FACTOR: 100

DATE SAMPLED: 05/18/98
DATE RECEIVED: 05/19/98
DATE ANALYZED: 05/22/98
MATRIX: WATER
SAMPLE VOL./WT.: 0.05 ML

ANALYTE	REPORTING LIMIT PPB (UG/L)	RESULTS PPB (UG/L)
MTBE	50.0	ND
BENZENE	50.0	326
TOLUENE	50.0	89.5
ETHYLBENZENE	50.0	ND
XYLENES(TOTAL)	100.0	ND

MASS SPEC. CONFIRMATION PERFORMED ON ALL DETECTED ANALYTES.
ND = NON DETECT AT OR ABOVE INDICATED REPORTING LIMIT
REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE SPIKE DATA	ACCEPTABLE CRITERIA	% RECOVERY
4-CHLOROTOLUENE	56-140	93

Pacific Treatment Analytical Services, Inc. 4340 Viewridge Ave., Suite A • San Diego, CA 92123 • (619) 560-7717 FAX (619) 560-7763

ANALYSIS RESULTS - EPA 8020
AROMATIC VOLATILE ORGANIC COMPOUNDS

CLIENT: TETRA TECH EM, INC.

PROJECT NAME/No.: EL CAPITAN OIL
PTAS LOG #: 1031-98-2
SAMPLE ID: MW-02
DILUTION FACTOR: 25

DATE SAMPLED: 05/18/98
DATE RECEIVED: 05/19/98
DATE ANALYZED: 05/22/98
MATRIX: WATER
SAMPLE VOL/WT.: 0.2 ML

ANALYTE	REPORTING LIMIT PPB (UG/L)	RESULTS PPB (UG/L)
MTBE	12.5	226
BENZENE	12.5	98.5
TOLUENE	12.5	ND
ETHYLBENZENE	12.5	ND
XYLENES(TOTAL)	25.0	ND

MASS SPEC. CONFIRMATION PERFORMED ON ALL DETECTED ANALYTES.
ND = NON DETECT AT OR ABOVE INDICATED REPORTING LIMIT
REPORTING LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE SPIKE DATA	ACCEPTABLE CRITERIA	% RECOVERY
4-CHLOROTOLUENE	56-140	96

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MAY-28-98 08:37 FROM:TETRA TECH ID:8197189598 PAGE 8/13

ANALYSIS RESULTS - EPA 8270
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)

CLIENT: TETRA TECH EM, INC.

PROJECT NAME/No.: EL CAPITAN OIL
PTAS LOG #: METHOD BLANK
SAMPLE ID: N/A
DILUTION FACTOR: 1

DATE SAMPLED: N/A
DATE RECEIVED: N/A
DATE EXTRACTED: 05/20/98
DATE ANALYZED: 05/22/98
MATRIX: WATER
SAMPLE VOL/WT.: 1000 ML

ANALYTE	DETECTION LIMIT PPB (UG/L)	RESULTS PPB (UG/L)
NAPHTHALENE	2	ND
ACENAPHTHYLENE	2	ND
ACENAPHTHENE	2	ND
FLUORENE	2	ND
PHENANTHRENE	2	ND
ANTHRACENE	2	ND
FLUORANTHENE	2	ND
PYRENE	2	ND
BENZO(A)ANTHRACENE	2	ND
CHRYSENE	2	ND
BENZO(B)FLUORANTHENE	2	ND
BENZO(K)FLUORANTHENE	2	ND
BENZO(A)PYRENE	2	ND
DIBENZO(A,H)ANTHRACENE	2	ND
INDENO(1,2,3-CD)PYRENE	2	ND
BENZO(GHI)PERYLENE	2	ND

ND = NON DETECT ABOVE INDICATED DETECTION LIMIT.
DETECTION LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SUBROGATE SPIKE DATA	ACCEPTABLE RANGE	% RECOVERY
NITROBENZENE-d5	35-114	85
2-FLUOROBIPHENYL	43-116	78
4-TERPHENYL-d14	33-141	108

MAY-28-98 08:37 FROM:TETRA TECH ID:6197189598 PAGE 7/

ANALYSIS RESULTS - EPA 8270
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs)

CLIENT: TETRA TECH EM, INC.

PROJECT NAME/No.: EL CAPITAN OIL
PTAS LOG #: 1031-98-1
SAMPLE ID: MW-01
DILUTION FACTOR: 1

DATE SAMPLED: 05/18/98
DATE RECEIVED: 05/19/98
DATE EXTRACTED: 05/20/98
DATE ANALYZED: 05/22/98
MATRIX: WATER
SAMPLE VOL./WT.: 1000 ML

ANALYTE	DETECTION LIMIT PPB (UG/L)	RESULTS PPB (UG/L)
NAPHTHALENE	2	8.6
ACENAPHTHYLENE	2	ND
ACENAPHTHENE	2	ND
FLUORENE	2	ND
PHENANTHRENE	2	ND
ANTHRACENE	2	ND
FLUORANTHENE	2	ND
PYRENE	2	ND
BENZO(A)ANTHRACENE	2	ND
CHRYSENE	2	ND
BENZO(B)FLUORANTHENE	2	ND
BENZO(K)FLUORANTHENE	2	ND
BENZO(A)PYRENE	2	ND
DIBENZO(A,H)ANTHRACENE	2	ND
INDENO(1,2,3-CD)PYRENE	2	ND
BENZO(GHI)PERYLENE	2	ND

ND - NON DETECT ABOVE INDICATED DETECTION LIMIT.
DETECTION LIMITS AND RESULTS HAVE BEEN ADJUSTED ACCORDINGLY TO ACCOUNT FOR DILUTION FACTOR.

SURROGATE SPIKE DATA	ACCEPTABLE RANGE	% RECOVERY
NITROBENZENE-d5	35-114	85
2-FLUOROBIPHENYL	43-116	80
4-TERPHENYL-d14	33-141	98

Pacific Treatment Analytical Services, Inc. 4340 Viewridge Ave., Suite A - San Diego, CA 92123 (619) 560-7717 FAX (619) 56

MAY-28-98 08:38 FROM:TETRA TECH ID:6197189598 PAGE 8/13

QA/QC REPORT

METHOD:	TPH-DOHS MODIFIED EPA 8015-WATER				ACCEPTABLE LCS/MS/MSD CRITERIA	ACCEPTABLE RPD CRITERIA
DATE ANALYZED:	05/21/98				%	%
QA/QC SAMPLE:	PTAS 0989-98-1			RPD	75-125	<30
SPIKED ANALYTE	LCS % R	MS % R	MSD % R	9		
GASOLINE	83	94	86			

QA/QC REPORT

METHOD:	TPH-DOHS MODIFIED EPA 8015-WATER			ACCEPTABLE LCS/LCSD CRITERIA	ACCEPTABLE RPD CRITERIA
DATE ANALYZED:	05/20/98			%	%
QA/QC SAMPLE:	PTAS 1031-98 BLANK		RPD	75-125	<30
SPIKED ANALYTE	LCS % R	LCSD % R	11		
DIESEL	111	99			

LCS % R = LABORATORY CONTROL SAMPLE PERCENT RECOVERY
LCSD % R = LABORATORY CONTROL SAMPLE DUPLICATE PERCENT RECOVERY
MS % R = MATRIX SPIKE PERCENT RECOVERY
MSD % R = MATRIX SPIKE DUPLICATE PERCENT RECOVERY
RPD = RELATIVE PERCENT DIFFERENCE

MAY-28-98 08:38 FROM:TERRA TECH ID:6197189598 PAGE

QA/QC REPORT

METHOD: EPA 8020-WATER
DATE ANALYZED: 05/22/98
QA/QC SAMPLE: PTAS 1017-98-1

SPIKED ANALYTE	LCS % R	MS % R	MSD % R	RPD	ACCEPTABLE LCS/LCSD CRITERIA %	ACCEPTABLE MS/MSD CRITERIA %	ACCEPTABLE RPD CRITERIA %
BENZENE	96	120	120	0	70-122	61-126	<30
TOLUENE	92	119	119	0	68-121	57-126	<30
CHLOROBENZENE	89	112	109	3	65-120	56-124	<30
ETHYLBENZENE	85	119	118	1	69-122	61-124	<30
XYLENES	90	123	118	4	69-122	58-124	<30

LCS % R = LABORATORY CONTROL SAMPLE PERCENT RECOVERY
LCSD % R = LABORATORY CONTROL DUPLICATE SAMPLE PERCENT RECOVERY
MS % R = MATRIX SPIKE PERCENT RECOVERY
MSD % R = MATRIX SPIKE DUPLICATE PERCENT RECOVERY
RPD = RELATIVE PERCENT DIFFERENCE

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MAY-28-98 08:39 FROM:TERRA TECH ID:6195718958 PAGE

QA/QC REPORT

METHOD: EPA 8270-WATER
DATE ANALYZED: 05/22/98
QA/QC SAMPLE: PTAS 1031-98 BLANK

SPIKED ANALYTE	LCS % R	LCSD % R	RPD	ACCEPTABLE LCS/LCSD CRITERIA %	ACCEPTABLE RPD CRITERIA %
ACENAPHTHENE	91	97	6	56-127	<30
DI-N-BUTYL PHTHALATE	110	110	0	30-128	<30
1,4-DICHLOROBENZENE	80	92	14	35-126	<30
2,4-DINITROTOLUENE	92	96	4	45-142	<30
N-NITROSO-DI-N-PROPYLAMINE	100	107	7	28-144	<30
PYRENE	112	101	10	30-141	<30
1,2,4-TRICHLOROBENZENE	84	95	12	36-126	<30
4-CHLORO-3-METHYLPHENOL	100	101	1	41-138	<30
2-CHLOROPHENOL	79	86	8	39-121	<30
4-NITROPHENOL	100	107	7	23-157	<30
PENTACHLOROPHENOL	106	109	3	13-149	<30
PHENOL	77	83	8	29-129	<30

LCS % R = LABORATORY CONTROL SAMPLE PERCENT RECOVERY
LCSD % R = LABORATORY CONTROL SAMPLE DUPLICATE PERCENT RECOVERY
RPD = RELATIVE PERCENT DIFFERENCE
D.L. = DETECTION LIMIT

Pacific Treatment Analytical Services, Inc. 4340 Viewridge Ave., Suite A - San Diego, CA 92123 (619) 560-7717 FAX (619) 560-77

MAY-28-98 08:39 FROM:TETRA TECH TO:6197198898

Pacific Treatment Analytical Services, Inc.

CHAIN-OF-CUSTODY RECORD

9737 Lightwave Avenue, Suite E, San Diego, CA 92123 | Phone (619) 560-7717 | FAX (619) 560-7179

1031-98 | PTAS LOG #

PTAS DATE/TIME STAMP: 98 MAY 19 8:42

Client: TETRA TECH EM INC.

Address: 591 CAMINO DE LA REINA, SUITE 640
SAN DIEGO, CA 92108

Attn: GREG ALYANAKIAN Phone: 619 718 9676

Sampled by: G. ALYANAKIAN Fax: 619 718 9698

Billing Address: SAME AS ABOVE

Project: EL CAPITAN OIL P.O.#:

REQUESTED ANALYSIS

Client Sample ID	Sample Date	Sample Time	Sample Matrix	Container(s) #	Container(s) Type*	PTAS ID #	418.1 (TRPH)	TPH (DHS) Oil	Diesel	BTXE 8020 or 8260	MTBE	601 / 8010 (Purgeable Halocarbons)	PCBs Pesticides 608 / 8080	624 / 8240 / 8260 (Volatile Organics)	625 / 8270 (Semi Volatile Organics)	TTLC Metals (CAC Title 22)	STLC Metals (CAC Title 22)	TCLP (RCRA) Metals Organics	Cr	Cd	Pb	Ni	Zn	pH	EC	TDS	040	NAPTHALENE	PAH 8270
MW-01	5/18/98	1545	H_2O	4	V/O	1		X		X																	X	
MW-02	5/18/98	1630	H_2O	4	V/O	2		X		X																	X	
						3																						
						4																						
						5																						
						6																						
						7																						
						8																						
						9																						
						10																						

*Container Types: B=Brass Tube; V=VOA; G=Glass; P=Plastic; O=Other (list)

Tamper-Proof Seals Intact: Yes (No) N/A | Correct Containers: (Yes) No

Sample(s): (Cold) Ambient Warm | VOAs w/ZHS: Yes (No) N/A

All Samples Properly Preserved: (Yes) No N/A

Disposal: N/C (aqueous) *PTAS (@$5.00/sample) Return

Turnaround Time: 24 hr 48 hr 3 day 4 day (Normal)

Comments: 0 - 1 Liter glass Amber

RELINQUISHED BY	DATE/TIME	RECEIVED BY
Signature: [signature]	5-19-98 8:43	Signature: [signature]
Print: GREG ALYANAKIAN		Print: J. CALIMBO
Company: Tetra Tech EM INC.		Company: PTAS
Signature		Signature
Print		Print
Company		Company
Signature		Signature
Print		Print
Company		Company

White - PTAS Canary - Accounting Pink - Client (w/Report) Goldenrod - Client (Relinquish Samples) (Rev. 5/97)

BG003

Del Mar Analytical

...on Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley ... Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
16525 Sherman Way, Suite C-11, Van Nuys, CA 92406 (818) 779-1844 FAX (818) 779-1843
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RECEIVED
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LABORATORY REPORT

02-01686-001
BG010

Prepared For: Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120

Attention John Royal
Project El Capitan Oil
02-01686-001

Sampled: 04/04/00-04/05/00
Received: 04/07/00
Reported: 04/17/00

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

CA ELAP Certificate #1169
AZ DHS License #AZ0062

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: El Capiton Oil
02-01686-001
Report Number: CJD0059

Sampled: 04/04/00-04/05/00
Received: 04/07/00

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: CJD0059-01 (MW3 - Water)				**Sampled: 04/04/00**				
Volatile Fuel Hydrocarbons	EPA 8015B/8021B	C0D1501	50	**420**	1	4/13/00	4/15/00	
Benzene	EPA 8015B/8021B	C0D1501	0.30	**18**	1	4/13/00	4/15/00	
Toluene	EPA 8015B/8021B	C0D1501	0.30	**1.7**	1	4/13/00	4/15/00	
Ethylbenzene	EPA 8015B/8021B	C0D1501	0.30	**3.9**	1	4/13/00	4/15/00	
Xylenes, Total	EPA 8015B/8021B	C0D1501	0.60	**12**	1	4/13/00	4/15/00	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021B	C0D1501	10	**230**	1	4/13/00	4/15/00	
Surrogate: 4-BFB (PID) (70-145%)				*118 %*				
Surrogate: aaa-TFT (FID) (70-130%)				*94.5 %*				
Sample ID: CJD0059-02 (MW2 - Water)				**Sampled: 04/04/00**				
Volatile Fuel Hydrocarbons	EPA 8015B/8021B	C0D1501	500	**7600**	10	4/13/00	4/15/00	
Benzene	EPA 8015B/8021B	C0D1501	3.0	**7.6**	10	4/13/00	4/15/00	
Toluene	EPA 8015B/8021B	C0D1501	3.0	**3.3**	10	4/13/00	4/15/00	
Ethylbenzene	EPA 8015B/8021B	C0D1501	3.0	**30**	10	4/13/00	4/15/00	
Xylenes, Total	EPA 8015B/8021B	C0D1501	6.0	**59**	10	4/13/00	4/15/00	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021B	C0D1501	100	**3400**	10	4/13/00	4/15/00	
Surrogate: 4-BFB (PID) (70-145%)				*134 %*				
Surrogate: aaa-TFT (FID) (70-130%)				*99.5 %*				
Sample ID: CJD0059-03 (MW1 - Water)				**Sampled: 04/05/00**				
Volatile Fuel Hydrocarbons	EPA 8015B/8021B	C0D1501	500	**1800**	10	4/13/00	4/15/00	
Benzene	EPA 8015B/8021B	C0D1501	3.0	**250**	10	4/13/00	4/15/00	
Toluene	EPA 8015B/8021B	C0D1501	3.0	**14**	10	4/13/00	4/15/00	
Ethylbenzene	EPA 8015B/8021B	C0D1501	3.0	**34**	10	4/13/00	4/15/00	
Xylenes, Total	EPA 8015B/8021B	C0D1501	6.0	**380**	10	4/13/00	4/15/00	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021B	C0D1501	100	**190**	10	4/13/00	4/15/00	
Surrogate: 4-BFB (PID) (70-145%)				*107 %*				
Surrogate: aaa-TFT (FID) (70-130%)				*91.0 %*				

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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16525 Sherman Way, Suite C-11, Van Nuys, CA 92406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: El Capiton Oil
02-01686-001
Report Number: CJD0059

Sampled: 04/04/00-04/05/00
Received: 04/07/00

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: CJD0059-04 (MW4 - Water)				**Sampled: 04/05/00**				
Volatile Fuel Hydrocarbons	EPA 8015B/8021B	C0D1501	2000	**8700**	40	4/13/00	4/15/00	
Benzene	EPA 8015B/8021B	C0D1501	12	**1800**	40	4/13/00	4/15/00	
Toluene	EPA 8015B/8021B	C0D1501	12	ND	40	4/13/00	4/15/00	
Ethylbenzene	EPA 8015B/8021B	C0D1501	12	**110**	40	4/13/00	4/15/00	
Xylenes, Total	EPA 8015B/8021B	C0D1501	24	**790**	40	4/13/00	4/15/00	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021B	C0D1501	400	**1300**	40	4/13/00	4/15/00	
Surrogate: 4-BFB (PID) (70-145%)				*99.5 %*				
Surrogate: aaa-TFT (FID) (70-130%)				*97.5 %*				

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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16525 Sherman Way, Suite C-11, Van Nuys, CA 92406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: El Capiton Oil
02-01686-001
Report Number: CJD0059

Sampled: 04/04/00-04/05/00
Received: 04/07/00

SEE ATTACHED ANALYTICAL QC DATA

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C0D1501 Extracted: 04/15/00										
Blank Analyzed: 04/15/00 (C0D1501-BLK1)										
Volatile Fuel Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	ug/l							
Ethylbenzene	ND	0.30	ug/l							
Xylenes, Total	ND	0.60	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	10	ug/l							
Surrogate: 4-BFB (PID)	*19.1*		*ug/l*	*20.0*		*95.5*	*70-145*			
Surrogate: aaa-TFT (FID)	*18.2*		*ug/l*	*20.0*		*91.0*	*70-130*			
LCS Analyzed: 04/15/00 (C0D1501-BS1)										
Volatile Fuel Hydrocarbons	229	50	ug/l	220		104	70-130			
Benzene	18.5	0.30	ug/l	20.0		92.5	70-130			
Toluene	18.6	0.30	ug/l	20.0		93.0	70-130			
Ethylbenzene	19.4	0.30	ug/l	20.0		97.0	70-130			
Xylenes, Total	57.0	0.60	ug/l	60.0		95.0	70-130			
Methyl-tert-butyl Ether (MTBE)	295	10	ug/l	300		98.3	70-130			
Surrogate: 4-BFB (PID)	*20.7*		*ug/l*	*20.0*		*104*	*70-145*			
Surrogate: aaa-TFT (FID)	*20.4*		*ug/l*	*20.0*		*102*	*70-130*			
Matrix Spike Analyzed: 04/15/00 (C0D1501-MS1)					**Source: CJD0058-09**					
Volatile Fuel Hydrocarbons	252	50	ug/l	220	27	102	70-130			
Benzene	19.2	0.30	ug/l	20.0	ND	96.0	70-130			
Toluene	19.4	0.30	ug/l	20.0	ND	97.0	70-130			
Ethylbenzene	20.3	0.30	ug/l	20.0	ND	101	70-130			
Xylenes, Total	59.7	0.60	ug/l	60.0	ND	99.5	70-130			
Methyl-tert-butyl Ether (MTBE)	337	10	ug/l	300	ND	112	70-130			
Surrogate: 4-BFB (PID)	*21.8*		*ug/l*	*20.0*		*109*	*70-145*			
Surrogate: aaa-TFT (FID)	*19.7*		*ug/l*	*20.0*		*98.5*	*70-130*			

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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16525 Sherman Way, Suite C-11, Van Nuys, CA 92406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: El Capiton Oil
02-01686-001
Report Number: CJD0059

Sampled: 04/04/00-04/05/00
Received: 04/07/00

METHOD ANALYTICAL DATA

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C0D1501 Extracted: 04/15/00										
Matrix Spike Dup Analyzed: 04/15/00 (C0D1501-MSD1)					Source: CJD0058-09					
Volatile Fuel Hydrocarbons	262	50	ug/l	220	27	107	70-130	3.89	25	
Benzene	19.9	0.30	ug/l	20.0	ND	99.5	70-130	3.58	20	
Toluene	20.0	0.30	ug/l	20.0	ND	100	70-130	3.05	20	
Ethylbenzene	20.9	0.30	ug/l	20.0	ND	104	70-130	2.91	20	
Xylenes, Total	61.2	0.60	ug/l	60.0	ND	102	70-130	2.48	20	
Methyl-tert-butyl Ether (MTBE)	372	10	ug/l	300	ND	124	70-130	9.87	25	
Surrogate: 4-BFB (PID)	*22.0*		*ug/l*	*20.0*		*110*	*70-145*			
Surrogate: aaa-TFT (FID)	*20.2*		*ug/l*	*20.0*		*101*	*70-130*			

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: El Capiton Oil
02-01686-001
Report Number: CJD0059

Sampled: 04/04/00-04/05/00
Received: 04/07/00

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit

NR Not reported.

RPD Relative Percent Difference

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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16705

CHAIN OF CUSTODY FORM

Quote No.: 21686-001 Page: 1 of

Client Name: ENECOTECH
Address: 6160 FAIRMOUNT AVE SUITE A
City: SAN DIEGO State: CA Zip: 92120
Tel: 619 299 0033 Fax: 619 299 0087
P.O./Project Number: 02-01474-007
Project Name: EL CAPITON OIL
Project Manager: JOHN ROYAL
Sampler(s) (signature): George Jackson

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	8015 (Gas) ☐ 8020 (BTEX) ☐ MTBE (8020) ☐ 8015/8020/MTBE ☒	8015 (Diesel) ☐ fuel simulated ☐ fingerprint distillation	Oil & Grease - EPA 413.2	TRPH - EPA 418.1	EPA 8010 ☐ EPA 8010/8020 ☐	EPA 8270	Title 22 Metals EPA 6010/7000 ☐ +Cr VI ☐	EPA 8260 ☐ + Oxygenates ☐ + MTBE ☐ MTBE only ☐	Lead	pH	EPA 8260 (TBA, DIPE, ETBE, TAME, EDB, EDC)	TPH as Diesel (8015 Modified)	TPH as Gasoline (8015 Modified)	BTEX (8020)	Fuel Oxygenates (8260)
MW3		4-4-00	11:20	HCl	3	VOA's	X										↓				
MW2		4-4-00	12:36				X														
MW1		4-5-00	10:34				X														
MW4		4-5-00	13:03				X										↓				

Relinquished by:	Date/Time:	Received by:	Date/Time:
George Jackson	4/7/00 1400		4/7/00 1400
	4/7/00 1035		

Turnaround Time: (check one)
Same Day ___ 72 hours ___
24 Hours ___ 5 Days ___
48 Hours ___ Standard X

Sample Integrity:
Intact: X On Ice: X

Remarks:

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of the invoice. Sample(s) will be disposed of after 30 days.

COC-GT

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LABORATORY REPORT

Prepared For: Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120

Attention John Royal
Project El Capiton Oil
02-01686-001

Sampled: 04/04/00-04/05/00
Received: 04/07/00
Reported: 04/20/00

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CA ELAP Certificate #1169
AZ DHS License #AZ0062

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: El Capiton Oil
02-01686-001
Report Number: CJD0172

Sampled: 04/04/00-04/05/00
Received: 04/07/00

MTBE (EPA 8260 MOD.)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: CJD0172-01 (MW3 - Water)				**Sampled: 04/04/00**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	C0D1706	5.0	**190**	1	4/17/00	4/17/00	
Surrogate: Dibromofluoromethane (65-135%)				*92.8 %*				
Sample ID: CJD0172-02 (MW2 - Water)				**Sampled: 04/04/00**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	C0D1808	100	**3500**	20	4/18/00	4/18/00	
Surrogate: Dibromofluoromethane (65-135%)				*122 %*				
Sample ID: CJD0172-03 (MW1 - Water)				**Sampled: 04/05/00**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	C0D1706	5.0	**200**	1	4/17/00	4/17/00	
Surrogate: Dibromofluoromethane (65-135%)				*95.6 %*				
Sample ID: CJD0172-04 (MW4 - Water)				**Sampled: 04/05/00**				
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	C0D1808	50	**900**	10	4/18/00	4/18/00	
Surrogate: Dibromofluoromethane (65-135%)				*124 %*				

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: El Capiton Oil
02-01686-001
Report Number: CJD0172

Sampled: 04/04/00-04/05/00
Received: 04/07/00



MTBE (EPA 8260 MOD.)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C0D1706 Extracted: 04/17/00										
Blank Analyzed: 04/17/00 (C0D1706-BLK1)										
Methyl-tert-butyl Ether (MTBE)	ND	5.0	ug/l							
Surrogate: Dibromofluoromethane	*24.8*		*ug/l*	*25.0*		*99.2*	*65-135*			
LCS Analyzed: 04/17/00 (C0D1706-BS1)										
Methyl-tert-butyl Ether (MTBE)	21.1	5.0	ug/l	25.0		84.4	65-135			
Surrogate: Dibromofluoromethane	*25.3*		*ug/l*	*25.0*		*101*	*65-135*			
Matrix Spike Analyzed: 04/17/00 (C0D1706-MS1)					**Source: CJD0161-04**					
Methyl-tert-butyl Ether (MTBE)	42.4	5.0	ug/l	25.0	12	122	40-145			
Surrogate: Dibromofluoromethane	*31.9*		*ug/l*	*25.0*		*128*	*65-135*			
Matrix Spike Dup Analyzed: 04/17/00 (C0D1706-MSD1)					**Source: CJD0161-04**					
Methyl-tert-butyl Ether (MTBE)	41.2	5.0	ug/l	25.0	12	117	40-145	2.87	30	
Surrogate: Dibromofluoromethane	*25.0*		*ug/l*	*25.0*		*100*	*65-135*			
Batch: C0D1808 Extracted: 04/18/00										
Blank Analyzed: 04/18/00 (C0D1808-BLK1)										
Methyl-tert-butyl Ether (MTBE)	ND	5.0	ug/l							
Surrogate: Dibromofluoromethane	*28.5*		*ug/l*	*25.0*		*114*	*65-135*			
LCS Analyzed: 04/18/00 (C0D1808-BS1)										
Methyl-tert-butyl Ether (MTBE)	22.0	5.0	ug/l	25.0		88.0	65-135			
Surrogate: Dibromofluoromethane	*29.4*		*ug/l*	*25.0*		*118*	*65-135*			
Matrix Spike Analyzed: 04/18/00 (C0D1808-MS1)					**Source: CJD0173-01**					
Methyl-tert-butyl Ether (MTBE)	42.1	5.0	ug/l	25.0	17	100	40-145			
Surrogate: Dibromofluoromethane	*29.8*		*ug/l*	*25.0*		*119*	*65-135*			

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: El Capiton Oil
02-01686-001
Report Number: CJD0172

Sampled: 04/04/00-04/05/00
Received: 04/07/00

MTBE (EPA 8260 MOD.)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C0D1808 Extracted: 04/18/00										
Matrix Spike Dup Analyzed: 04/18/00 (C0D1808-MSD1)					**Source: CJD0173-01**					
Methyl-tert-butyl Ether (MTBE)	41.6	5.0	ug/l	25.0	17	98.4	40-145	1.19	30	
Surrogate: Dibromofluoromethane	*30.1*		*ug/l*	*25.0*		*120*	*65-135*			

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Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: John Royal

Client Project ID: El Capiton Oil
02-01686-001
Report Number: CJD0172

Sampled: 04/04/00-04/05/00
Received: 04/07/00

DATA QUALIFIERS AND DEFINITIONS

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.

NR Not reported.

RPD Relative Percent Difference

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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106705

CHAIN OF CUSTODY FORM

Quote No.: 01686-001 Page: 1 of

Client Name: ENECOTECH	P.O./Project Number: 02 ~~01494~~ 007
Address: 6160 FAIRMOUNT AVE SUITE A	Project Name: EL CAPITON OIL
City: SAN DIEGO State: CA Zip: 92120	Project Manager: JOHN ROYAK
Tel: 619 299 0033 Fax.: 619 299 0087	Sampler(s) (signature): George Jackson

Sample I.D.	Matrix	Date Sampled	Time	Preservation	Number of Containers	Type of Containers	8015 (Gas) ☐ 8020 (BTEX) ☐ MTBE (8020) ☐ 8015/8020/MTBE ☒	8015 (Diesel) ☐ fuel ☐ simulated ☐ fingerprint distillation	Oil & Grease - EPA 413.2	TRPH - EPA 418.1	EPA 8010 ☐ EPA 8010/8020 ☐	EPA 8270	Title 22 Metals EPA 6010/7000 +Cr VI ☐	EPA 8260 ☒ + Oxygenates ☐ +MTBE ☐ MTBE only ☒	Lead	pH	8260 MTBE confirm on future samples if high detection limit 8020 results
MW3		4-4-00	11:20	HCl	3	VOAs	X							X			
MW2		4-4-00	12:30				X							X			
MW1		4-5-00	10:54				X							X			
MW4		4-5-00	13:23				X							X			↓

Relinquished by: George Jackson	Date/Time: 4/7/00 840AM	Received by: Lisa Hooper	Date/Time: 4/7/00 840AM
Relinquished by: Lisa Hooper	Date/Time: 4/7/00 1035AM	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time: 4/7/00 1035

Turnaround Time: (check one)
Same Day ___ 72 hours ___
24 Hours ___ 5 Days ___
48 Hours ___ Standard X

Sample Integrity:
Intact: X On Ice: X

Remarks:

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COC-GT

Del Mar Analytical

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LABORATORY REPORT

RECEIVED
MAY 21 2002
BY:

Prepared For: Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120

Attention: Mike Gibbs
Project: Wigington, El Capitan Oil
02-01686-001

Sampled: 04/26/02
Received: 04/26/02
Reported: 05/15/02

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Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0370

Sampled: 04/26/02
Received: 04/26/02

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/8015B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/l	mg/l				
Sample ID: CLD0370-01 (MW1 - Water)								**QD**
EFH (C8 - C40)	EPA 8015B	C2E0205	0.50	1.1	0.9	5/2/2002	5/3/2002	CRa
Surrogate: n-Octacosane (40-150%)				*86 %*				
Sample ID: CLD0370-02 (MW2 - Water)								**QD**
EFH (C8 - C40)	EPA 8015B	C2E0205	5.0	**160**	9.4	5/2/2002	5/3/2002	CRa
Surrogate: n-Octacosane (40-150%)				*106 %*				
Sample ID: CLD0370-03 (MW3 - Water)								**QD**
EFH (C8 - C40)	EPA 8015B	C2E0205	5.0	**190**	9.4	5/2/2002	5/3/2002	CRa
Surrogate: n-Octacosane (40-150%)				*154 %*				*ZX*
Sample ID: CLD0370-04 (MW5 - Water)								**QD**
EFH (C8 - C40)	EPA 8015B	C2E0205	0.50	**2.0**	0.9	5/2/2002	5/3/2002	CR
Surrogate: n-Octacosane (40-150%)				*102 %*				

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0370

Sampled: 04/26/02
Received: 04/26/02

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: CLD0370-01 (MW1 - Water)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2E0202	1000	**1100**	20	5/2/2002	5/2/2002	QG
Benzene	EPA 8015B/8021	C2E0202	6.0	**230**	20	5/2/2002	5/2/2002	
Toluene	EPA 8015B/8021	C2E0202	6.0	**14**	20	5/2/2002	5/2/2002	
Ethylbenzene	EPA 8015B/8021	C2E0202	6.0	**36**	20	5/2/2002	5/2/2002	
Xylenes, Total	EPA 8015B/8021	C2E0202	12	**220**	20	5/2/2002	5/2/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2E0202	20	**190**	20	5/2/2002	5/2/2002	
Surrogate: 4-BFB (PID) (75-135%)				*98 %*				
Surrogate: aaa-TFT (FID) (70-140%)				*102 %*				
Sample ID: CLD0370-02 (MW2 - Water)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2E0202	500	**6000**	10	5/2/2002	5/2/2002	QG
Benzene	EPA 8015B/8021	C2E0202	3.0	**9.2**	10	5/2/2002	5/2/2002	
Toluene	EPA 8015B/8021	C2E0202	3.0	**3.9**	10	5/2/2002	5/2/2002	
Ethylbenzene	EPA 8015B/8021	C2E0202	3.0	**16**	10	5/2/2002	5/2/2002	
Xylenes, Total	EPA 8015B/8021	C2E0202	6.0	**17**	10	5/2/2002	5/2/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2E0202	10	**3100**	10	5/2/2002	5/2/2002	
Surrogate: 4-BFB (PID) (75-135%)				*132 %*				
Surrogate: aaa-TFT (FID) (70-140%)				*98 %*				
Sample ID: CLD0370-03 (MW3 - Water)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2E0901	500	**9700**	10	5/9/2002	5/9/2002	QG
Benzene	EPA 8015B/8021	C2E0901	3.0	**92**	10	5/9/2002	5/9/2002	
Toluene	EPA 8015B/8021	C2E0901	3.0	ND	10	5/9/2002	5/9/2002	
Ethylbenzene	EPA 8015B/8021	C2E0901	3.0	**56**	10	5/9/2002	5/9/2002	
Xylenes, Total	EPA 8015B/8021	C2E0901	6.0	**62**	10	5/9/2002	5/9/2002	
Surrogate: 4-BFB (PID) (75-135%)				*118 %*				
Surrogate: aaa-TFT (FID) (70-140%)				*100 %*				

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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2851 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr. Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0370

Sampled: 04/26/02
Received: 04/26/02

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: CLD0370-04 (MW5 - Water)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2E0202	100	**400**	2	5/2/2002	5/2/2002	QG
Benzene	EPA 8015B/8021	C2E0202	0.60	**7.3**	2	5/2/2002	5/2/2002	
Toluene	EPA 8015B/8021	C2E0202	0.60	**1.7**	2	5/2/2002	5/2/2002	
Ethylbenzene	EPA 8015B/8021	C2E0202	0.60	**2.8**	2	5/2/2002	5/2/2002	
Xylenes, Total	EPA 8015B/8021	C2E0202	1.2	**6.8**	2	5/2/2002	5/2/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2E0202	2.0	**230**	2	5/2/2002	5/2/2002	
Surrogate: 4-BFB (PID) (75-135%)				*117 %*				
Surrogate: aaa-TFT (FID) (70-140%)				*94 %*				

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Project Manager

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Sampled: 04/26/02
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OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: CLD0370-02 (MW2 - Water)								
Di-isopropyl Ether (DIPE)	EPA 8260B	C2E0806	40	ND	20	5/8/2002	5/8/2002	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	C2E0806	40	ND	20	5/8/2002	5/8/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	C2E0806	20	**2600**	20	5/8/2002	5/8/2002	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	C2E0806	40	ND	20	5/8/2002	5/8/2002	
tert-Butanol (TBA)	EPA 8260B	C2E0806	500	**500**	20	5/8/2002	5/8/2002	
Surrogate: Dibromofluoromethane (80-125%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*108 %*				

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6160 Fairmount Ave. Suite A
San Diego, CA 92120
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METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/8015B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2E0205 Extracted: 05/02/02										
Blank Analyzed: 05/03/02 (C2E0205-BLK1)										QD
TPH (C8 - C40)	ND	0.50	mg/l							
Surrogate: n-Octacosane	*0.192*		*mg/l*	*0.200*		*96*	*40-150*			
LCS Analyzed: 05/03/02 (C2E0205-BS1)										QD
TPH (C8 - C40)	5.04	0.50	mg/l	5.00		101	60-115			
Surrogate: n-Octacosane	*0.203*		*mg/l*	*0.200*		*102*	*40-150*			
LCS Dup Analyzed: 05/03/02 (C2E0205-BSD1)										QD
TPH (C8 - C40)	5.01	0.50	mg/l	5.00		100	60-115	1	20	
Surrogate: n-Octacosane	*0.208*		*mg/l*	*0.200*		*104*	*40-150*			

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VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2E0202 Extracted: 05/02/02										
Blank Analyzed: 05/02/02 (C2E0202-BLK1)										
Volatile Fuel Hydrocarbons	ND	50	ug/l							QG
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	ug/l							
Ethylbenzene	ND	0.30	ug/l							
Xylenes, Total	ND	0.60	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Surrogate: 4-BFB (PID)	*18.8*		*ug/l*	*20.0*		*94*	*75-135*			
Surrogate: aaa-TFT (FID)	*20.3*		*ug/l*	*20.0*		*102*	*70-140*			
LCS Analyzed: 05/02/02 (C2E0202-BS1)										
Volatile Fuel Hydrocarbons	209	50	ug/l	220		95	85-115			QG
Benzene	18.6	0.30	ug/l	20.0		93	85-115			
Toluene	19.2	0.30	ug/l	20.0		96	85-115			
Ethylbenzene	18.6	0.30	ug/l	20.0		93	85-115			
Xylenes, Total	54.1	0.60	ug/l	60.0		90	85-115			
Methyl-tert-butyl Ether (MTBE)	305	1.0	ug/l	300		102	50-145			
Surrogate: 4-BFB (PID)	*21.6*		*ug/l*	*20.0*		*108*	*75-135*			
Surrogate: aaa-TFT (FID)	*20.0*		*ug/l*	*20.0*		*100*	*70-140*			
Matrix Spike Analyzed: 05/02/02 (C2E0202-MS1)					**Source: CLD0370-01**					
Volatile Fuel Hydrocarbons	5310	1000	ug/l	4400	1100	96	75-125			QG
Benzene	623	6.0	ug/l	400	230	98	80-120			
Toluene	416	6.0	ug/l	400	14	100	75-115			
Ethylbenzene	424	6.0	ug/l	400	36	97	80-120			
Xylenes, Total	1390	12	ug/l	1200	220	98	70-130			
Methyl-tert-butyl Ether (MTBE)	6170	20	ug/l	6000	190	100	40-145			
Surrogate: 4-BFB (PID)	*461*		*ug/l*	*400*		*115*	*75-135*			
Surrogate: aaa-TFT (FID)	*391*		*ug/l*	*400*		*98*	*70-140*			

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7277 Hayvenhurst, Suite 312, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

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VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2E0202 Extracted: 05/02/02										
Matrix Spike Dup Analyzed: 05/02/02 (C2E0202-MSD1)					**Source: CLD0370-01**					
Volatile Fuel Hydrocarbons	5220	1000	ug/l	4400	1100	94	75-125	2	15	QG
Benzene	621	6.0	ug/l	400	230	98	80-120	0	15	
Toluene	411	6.0	ug/l	400	14	99	75-115	1	15	
Ethylbenzene	420	6.0	ug/l	400	36	96	80-120	1	15	
Xylenes, Total	1380	12	ug/l	1200	220	97	70-130	1	15	
Methyl-tert-butyl Ether (MTBE)	6060	20	ug/l	6000	190	98	40-145	2	25	
Surrogate: 4-BFB (PID)	*470*		*ug/l*	*400*		*118*	*75-135*			
Surrogate: aaa-TFT (FID)	*396*		*ug/l*	*400*		*99*	*70-140*			
Batch: C2E0901 Extracted: 05/09/02										
Blank Analyzed: 05/09/02 (C2E0901-BLK1)										
Volatile Fuel Hydrocarbons	ND	50	ug/l							QG
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	ug/l							
Ethylbenzene	ND	0.30	ug/l							
Xylenes, Total	ND	0.60	ug/l							
Surrogate: 4-BFB (PID)	*16.6*		*ug/l*	*20.0*		*83*	*75-135*			
Surrogate: aaa-TFT (FID)	*19.7*		*ug/l*	*20.0*		*98*	*70-140*			
LCS Analyzed: 05/09/02 (C2E0901-BS1)										
Volatile Fuel Hydrocarbons	212	50	ug/l	220		96	85-115			QG
Benzene	21.5	0.30	ug/l	20.0		108	85-115			
Toluene	19.5	0.30	ug/l	20.0		98	85-115			
Ethylbenzene	20.7	0.30	ug/l	20.0		104	85-115			
Xylenes, Total	60.1	0.60	ug/l	60.0		100	85-115			
Surrogate: 4-BFB (PID)	*19.8*		*ug/l*	*20.0*		*99*	*75-135*			
Surrogate: aaa-TFT (FID)	*18.5*		*ug/l*	*20.0*		*92*	*70-140*			

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7277 Hayvenhurst, Suite F-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
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San Diego, CA 92120
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METHOD BLANK QC DATA

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2E0901 Extracted: 05/09/02										
Matrix Spike Analyzed: 05/09/02 (C2E0901-MS1)					**Source: CLE0029-01**					
Volatile Fuel Hydrocarbons	213	50	ug/l	220	ND	87	75-125			*QG*
Benzene	22.6	0.30	ug/l	20.0	1.9	104	80-120			
Toluene	20.5	0.30	ug/l	20.0	ND	102	75-115			
Ethylbenzene	21.7	0.30	ug/l	20.0	ND	108	80-120			
Xylenes, Total	63.0	0.60	ug/l	60.0	ND	104	70-130			
Surrogate: 4-BFB (PID)	*19.8*		*ug/l*	*20.0*		*99*	*75-135*			
Surrogate: aaa-TFT (FID)	*17.9*		*ug/l*	*20.0*		*90*	*70-140*			
Matrix Spike Dup Analyzed: 05/09/02 (C2E0901-MSD1)					**Source: CLE0029-01**					
Volatile Fuel Hydrocarbons	215	50	ug/l	220	ND	88	75-125	1	15	*QG*
Benzene	21.0	0.30	ug/l	20.0	1.9	96	80-120	7	15	
Toluene	19.1	0.30	ug/l	20.0	ND	95	75-115	7	15	
Ethylbenzene	20.1	0.30	ug/l	20.0	ND	100	80-120	8	15	
Xylenes, Total	58.3	0.60	ug/l	60.0	ND	97	70-130	8	15	
Surrogate: 4-BFB (PID)	*19.6*		*ug/l*	*20.0*		*98*	*75-135*			
Surrogate: aaa-TFT (FID)	*19.3*		*ug/l*	*20.0*		*96*	*70-140*			

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Project Manager

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1014 E. Cooley [illegible]te A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Su[illegible]2, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
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METHOD BLANK/QC DATA

OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2E0806 Extracted: 05/08/02										
Blank Analyzed: 05/08/02 (C2E0806-BLK1)										
Di-isopropyl Ether (DIPE)	ND	2.0	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	ug/l							
tert-Butanol (TBA)	ND	25	ug/l							
Surrogate: Dibromofluoromethane	*27.0*		*ug/l*	*25.0*		*108*	*80-125*			
Surrogate: Toluene-d8	*26.9*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.4*		*ug/l*	*25.0*		*106*	*80-120*			
LCS Analyzed: 05/08/02 (C2E0806-BS1)										
Di-isopropyl Ether (DIPE)	24.6	2.0	ug/l	25.0		98	75-135			
Ethyl tert-Butyl Ether (ETBE)	25.3	2.0	ug/l	25.0		101	70-145			
Methyl-tert-butyl Ether (MTBE)	24.7	1.0	ug/l	25.0		99	50-145			
tert-Amyl Methyl Ether (TAME)	24.3	2.0	ug/l	25.0		97	65-140			
tert-Butanol (TBA)	131	25	ug/l	125		105	80-125			
Surrogate: Dibromofluoromethane	*27.0*		*ug/l*	*25.0*		*108*	*80-125*			
Surrogate: Toluene-d8	*26.9*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*27.8*		*ug/l*	*25.0*		*111*	*80-120*			
Matrix Spike Analyzed: 05/08/02 (C2E0806-MS1)					**Source: CLE0023-03**					
Di-isopropyl Ether (DIPE)	24.6	2.0	ug/l	25.0	ND	95	65-150			
Ethyl tert-Butyl Ether (ETBE)	25.3	2.0	ug/l	25.0	ND	101	65-160			
Methyl-tert-butyl Ether (MTBE)	24.8	1.0	ug/l	25.0	ND	99	55-155			
tert-Amyl Methyl Ether (TAME)	25.0	2.0	ug/l	25.0	ND	100	65-150			
tert-Butanol (TBA)	558	25	ug/l	125	420	110	80-140			
Surrogate: Dibromofluoromethane	*26.0*		*ug/l*	*25.0*		*104*	*80-125*			
Surrogate: Toluene-d8	*27.2*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.8*		*ug/l*	*25.0*		*107*	*80-120*			

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Project Manager

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METHOD BLANK QC DATA

OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2E0806 Extracted: 05/08/02										
Matrix Spike Dup Analyzed: 05/08/02 (C2E0806-MSD1)					**Source: CLE0023-03**					
Di-isopropyl Ether (DIPE)	24.5	2.0	ug/l	25.0	ND	95	65-150	0	20	
Ethyl tert-Butyl Ether (ETBE)	25.2	2.0	ug/l	25.0	ND	101	65-160	0	20	
Methyl-tert-butyl Ether (MTBE)	24.6	1.0	ug/l	25.0	ND	98	55-155	1	20	
Tert-Amyl Methyl Ether (TAME)	25.1	2.0	ug/l	25.0	ND	100	65-150	0	20	
tert-Butanol (TBA)	567	25	ug/l	125	420	118	80-140	2	20	
Surrogate: Dibromofluoromethane	*25.4*		*ug/l*	*25.0*		*102*	*80-125*			
Surrogate: Toluene-d8	*26.8*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*27.3*		*ug/l*	*25.0*		*109*	*80-120*			

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DATA QUALIFIERS AND DEFINITIONS

CR	The carbon range of the fuel found in the sample = C8-C28
CRa	The carbon range of the fuel found in the sample = C8-C32
QD	Quantitated against a diesel fuel standard.
QG	Carbon range C6-C12 quantitated against a gasoline standard.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Del Mar Analytical
2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689

CHAIN OF CUSTODY FORM

Client Name/Address: Enviro Tech
6160 Fairmount Ave Suite H
San Diego CA 92120

Project/PO Number: 02-01686-001 (02-01686-FK) Wigington

Project Manager:

Phone Number: 619 299-8035

Sampler: EK

Fax Number: 619 299-0087

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	EPA 8015/8021 + MTBE	EPA 8260 Oxy (run if MTBE detected) 8021	EPA 8015 Diesel	Special Instructions
MW1	W	VOA/1-liter	6/1-liter	4/26/02	945	HCl/ice	X	X	X	revised COC per Ed Kondo 7/29/02. Run highest MTBE for 8260 conf per M. Ke 5/8/02 GJ
MW2	↓	↓	↓	↓	1500	↓	↓	↓	↓	
MW3					1340					
MW5					1215					

Relinquished By:	Date/Time:	Received by:	Date/Time:
[signature]	4/26/02 1530	Elmer Baer	4-26-02 1530
Elmer Baer	4-26-02-1730	Received by:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab by: [signature]	Date/Time: 04/26/02 1720

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
intact ✓ on ice ✓ 3°C

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

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3930 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
2920 E. Sunset Rd. #3, Las Vegas, NV 89120 (702) 798-3620 FAX (702) 798-3621

LABORATORY REPORT

Prepared For: Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120

Attention: Mike Gibbs
Project: Wigington, El Capitan Oil
02-01686-001

Sampled: 04/26/02
Received: 04/26/02
Revised: 06/07/02

This laboratory report is confidential and is intended for the sole use of Del Mar Analytical and its client. This entire report was reviewed and approved for release.

CA ELAP Certificate #1169
AZ DHS License #AZ0062

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0370

Sampled: 04/26/02
Received: 04/26/02

OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: CLD0370-02 (MW2 - Water)								
Di-isopropyl Ether (DIPE)	EPA 8260B	C2E0806	40	ND	20	5/8/2002	5/8/2002	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	C2E0806	40	ND	20	5/8/2002	5/8/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	C2E0806	20	**2600**	20	5/8/2002	5/8/2002	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	C2E0806	40	ND	20	5/8/2002	5/8/2002	
tert-Butanol (TBA)	EPA 8260B	C2E0806	500	**500**	20	5/8/2002	5/8/2002	
Surrogate: Dibromofluoromethane (80-125%)				*105 %*				
Surrogate: Toluene-d8 (80-120%)				*105 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*108 %*				
Sample ID: CLD0370-03 (MW3 - Water)								
Di-isopropyl Ether (DIPE)	EPA 8260B	C2E0806	100	ND	50	5/8/2002	5/8/2002	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	C2E0806	100	ND	50	5/8/2002	5/8/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	C2E0806	50	**590**	50	5/8/2002	5/8/2002	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	C2E0806	100	ND	50	5/8/2002	5/8/2002	
tert-Butanol (TBA)	EPA 8260B	C2E0806	1200	ND	50	5/8/2002	5/8/2002	
Surrogate: Dibromofluoromethane (80-125%)				*104 %*				
Surrogate: Toluene-d8 (80-120%)				*108 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*106 %*				

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

LABORATORY REPORT

RECEIVED
MAY 21 2002
BY:

Prepared For: Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120

Attention: Mike Gibbs
Project: Wigington, El Capitan Oil
02-01686-001

Sampled: 04/26/02
Received: 04/29/02
Reported: 05/15/02

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Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0373

Sampled: 04/26/02
Received: 04/29/02

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/8015B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			mg/l	mg/l				
Sample ID: CLD0373-01 (MW4 - Water)								**QD**
EFH (C8 - C40)	EPA 8015B	C2E0205	5.0	**95**	9.4	5/2/2002	5/6/2002	CR
Surrogate: n-Octacosane (40-150%)				*116 %*				
Sample ID: CLD0373-02 (MW6 - Water)								**QD**
EFH (C8 - C40)	EPA 8015B	C2E0205	1.0	**9.1**	1.9	5/2/2002	5/6/2002	CR
Surrogate: n-Octacosane (40-150%)				*106 %*				
Sample ID: CLD0373-03 (MW7 - Water)								**QD**
EFH (C8 - C40)	EPA 8015B	C2E0205	0.50	**13**	0.9	5/2/2002	5/6/2002	CRa
Surrogate: n-Octacosane (40-150%)				*116 %*				
Sample ID: CLD0373-04 (MW8 - Water)								**QD**
EFH (C8 - C40)	EPA 8015B	C2E0205	0.50	**6.5**	0.9	5/2/2002	5/6/2002	CRa
Surrogate: n-Octacosane (40-150%)				*116 %*				

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Jeanne Shoulder
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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0373

Sampled: 04/26/02
Received: 04/29/02

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: CLD0373-01 (MW4 - Water)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2E0202	10000	**15000**	200	5/2/2002	5/2/2002	QG
Benzene	EPA 8015B/8021	C2E0202	60	**4500**	200	5/2/2002	5/2/2002	
Toluene	EPA 8015B/8021	C2E0202	60	**150**	200	5/2/2002	5/2/2002	
Ethylbenzene	EPA 8015B/8021	C2E0202	60	**450**	200	5/2/2002	5/2/2002	
Xylenes, Total	EPA 8015B/8021	C2E0202	120	**1900**	200	5/2/2002	5/2/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2E0202	200	**1500**	200	5/2/2002	5/2/2002	
Surrogate: 4-BFB (PID) (75-135%)				*96 %*				
Surrogate: aaa-TFT (FID) (70-140%)				*96 %*				
Sample ID: CLD0373-02 (MW6 - Water)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2E0202	10000	**25000**	200	5/2/2002	5/2/2002	QG
Benzene	EPA 8015B/8021	C2E0202	60	**5300**	200	5/2/2002	5/2/2002	
Toluene	EPA 8015B/8021	C2E0202	60	**1400**	200	5/2/2002	5/2/2002	
Ethylbenzene	EPA 8015B/8021	C2E0202	60	**1200**	200	5/2/2002	5/2/2002	
Xylenes, Total	EPA 8015B/8021	C2E0202	120	**5900**	200	5/2/2002	5/2/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2E0202	200	**850**	200	5/2/2002	5/2/2002	
Surrogate: 4-BFB (PID) (75-135%)				*108 %*				
Surrogate: aaa-TFT (FID) (70-140%)				*100 %*				
Sample ID: CLD0373-03 (MW7 - Water)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2E0202	50	**1900**	1	5/2/2002	5/2/2002	QG
Benzene	EPA 8015B/8021	C2E0202	0.30	**3.7**	1	5/2/2002	5/2/2002	
Toluene	EPA 8015B/8021	C2E0202	0.30	**1.1**	1	5/2/2002	5/2/2002	
Ethylbenzene	EPA 8015B/8021	C2E0202	0.30	**4.0**	1	5/2/2002	5/2/2002	
Xylenes, Total	EPA 8015B/8021	C2E0202	0.60	**7.9**	1	5/2/2002	5/2/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2E0202	1.0	**19**	1	5/2/2002	5/2/2002	
Surrogate: 4-BFB (PID) (75-135%)				*198 %*				*ZX*
Surrogate: aaa-TFT (FID) (70-140%)				*104 %*				

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0373

Sampled: 04/26/02
Received: 04/29/02

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: CLD0373-04 (MW8 - Water)								
Volatile Fuel Hydrocarbons	EPA 8015B/8021	C2E0202	1000	**4800**	20	5/2/2002	5/2/2002	QG
Benzene	EPA 8015B/8021	C2E0202	6.0	**50**	20	5/2/2002	5/2/2002	
Toluene	EPA 8015B/8021	C2E0202	6.0	**9.2**	20	5/2/2002	5/2/2002	
Ethylbenzene	EPA 8015B/8021	C2E0202	6.0	**170**	20	5/2/2002	5/2/2002	
Xylenes, Total	EPA 8015B/8021	C2E0202	12	**210**	20	5/2/2002	5/2/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8015B/8021	C2E0202	20	**64**	20	5/2/2002	5/2/2002	
Surrogate: 4-BFB (PID) (75-135%)				*115 %*				
Surrogate: aaa-TFT (FID) (70-140%)				*102 %*				

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Enecotech Southwest, Inc. - San Diego
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San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0373

Sampled: 04/26/02
Received: 04/29/02

OXYGENATES by GC/MS (EPA 8260B)

Analyte	Method	Batch	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
			ug/l	ug/l				
Sample ID: CLD0373-01 (MW4 - Water)								
Di-isopropyl Ether (DIPE)	EPA 8260B	C2E0806	100	ND	50	5/8/2002	5/8/2002	
Ethyl tert-Butyl Ether (ETBE)	EPA 8260B	C2E0806	100	ND	50	5/8/2002	5/8/2002	
Methyl-tert-butyl Ether (MTBE)	EPA 8260B	C2E0806	50	**1500**	50	5/8/2002	5/8/2002	
tert-Amyl Methyl Ether (TAME)	EPA 8260B	C2E0806	100	ND	50	5/8/2002	5/8/2002	
tert-Butanol (TBA)	EPA 8260B	C2E0806	1200	ND	50	5/8/2002	5/8/2002	
Surrogate: Dibromofluoromethane (80-125%)				*106 %*				
Surrogate: Toluene-d8 (80-120%)				*106 %*				
Surrogate: 4-Bromofluorobenzene (80-120%)				*102 %*				

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0373

Sampled: 04/26/02
Received: 04/29/02

METHOD BLANK/QC DATA

EXTRACTABLE FUEL HYDROCARBONS (EPA 3510C/8015B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2E0205 Extracted: 05/02/02										
Blank Analyzed: 05/03/02 (C2E0205-BLK1)										QD
TPH (C8 - C40)	ND	0.50	mg/l							
Surrogate: n-Octacosane	*0.192*		*mg/l*	*0.200*		*96*	*40-150*			
LCS Analyzed: 05/03/02 (C2E0205-BS1)										QD
TPH (C8 - C40)	5.04	0.50	mg/l	5.00		101	60-115			
Surrogate: n-Octacosane	*0.203*		*mg/l*	*0.200*		*102*	*40-150*			
LCS Dup Analyzed: 05/03/02 (C2E0205-BSD1)										QD
TPH (C8 - C40)	5.01	0.50	mg/l	5.00		100	60-115	1	20	
Surrogate: n-Octacosane	*0.208*		*mg/l*	*0.200*		*104*	*40-150*			

Del Mar Analytical, Colton
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Project Manager

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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0373

Sampled: 04/26/02
Received: 04/29/02

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2E0202 Extracted: 05/02/02										
Blank Analyzed: 05/02/02 (C2E0202-BLK1)										
Volatile Fuel Hydrocarbons	ND	50	ug/l							QG
Benzene	ND	0.30	ug/l							
Toluene	ND	0.30	ug/l							
Ethylbenzene	ND	0.30	ug/l							
Xylenes, Total	ND	0.60	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
Surrogate: 4-BFB (PID)	*18.8*		*ug/l*	*20.0*		*94*	*75-135*			
Surrogate: aaa-TFT (FID)	*20.3*		*ug/l*	*20.0*		*102*	*70-140*			
LCS Analyzed: 05/02/02 (C2E0202-BS1)										
Volatile Fuel Hydrocarbons	209	50	ug/l	220		95	85-115			QG
Benzene	18.6	0.30	ug/l	20.0		93	85-115			
Toluene	19.2	0.30	ug/l	20.0		96	85-115			
Ethylbenzene	18.6	0.30	ug/l	20.0		93	85-115			
Xylenes, Total	54.1	0.60	ug/l	60.0		90	85-115			
Methyl-tert-butyl Ether (MTBE)	305	1.0	ug/l	300		102	50-145			
Surrogate: 4-BFB (PID)	*21.6*		*ug/l*	*20.0*		*108*	*75-135*			
Surrogate: aaa-TFT (FID)	*20.0*		*ug/l*	*20.0*		*100*	*70-140*			
Matrix Spike Analyzed: 05/02/02 (C2E0202-MS1)					**Source: CLD0370-01**					
Volatile Fuel Hydrocarbons	5310	1000	ug/l	4400	1100	96	75-125			QG
Benzene	623	6.0	ug/l	400	230	98	80-120			
Toluene	416	6.0	ug/l	400	14	100	75-115			
Ethylbenzene	424	6.0	ug/l	400	36	97	80-120			
Xylenes, Total	1390	12	ug/l	1200	220	98	70-130			
Methyl-tert-butyl Ether (MTBE)	6170	20	ug/l	6000	190	100	40-145			
Surrogate: 4-BFB (PID)	*461*		*ug/l*	*400*		*115*	*75-135*			
Surrogate: aaa-TFT (FID)	*391*		*ug/l*	*400*		*98*	*70-140*			

Del Mar Analytical, Colton
Deanne Shoulder
Project Manager

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Del Mar Analytical

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1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite C-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
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9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851

Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0373

Sampled: 04/26/02
Received: 04/29/02

METHOD BLANK/QC DATA

VOLATILE FUEL HYDROCARBONS/BTEX/MTBE (EPA 5030B/8015B/8021B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2E0202 Extracted: 05/02/02										
Matrix Spike Dup Analyzed: 05/02/02 (C2E0202-MSD1)					**Source: CLD0370-01**					
Volatile Fuel Hydrocarbons	5220	1000	ug/l	4400	1100	94	75-125	2	15	*QG*
Benzene	621	6.0	ug/l	400	230	98	80-120	0	15	
Toluene	411	6.0	ug/l	400	14	99	75-115	1	15	
Ethylbenzene	420	6.0	ug/l	400	36	96	80-120	1	15	
Xylenes, Total	1380	12	ug/l	1200	220	97	70-130	1	15	
Methyl-tert-butyl Ether (MTBE)	6060	20	ug/l	6000	190	98	40-145	2	25	
Surrogate: 4-BFB (PID)	*470*		*ug/l*	*400*		*118*	*75-135*			
Surrogate: aaa-TFT (FID)	*396*		*ug/l*	*400*		*99*	*70-140*			

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0373

Sampled: 04/26/02
Received: 04/29/02

METHOD BLANK QC DATA

OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2E0806 Extracted: 05/08/02										
Blank Analyzed: 05/08/02 (C2E0806-BLK1)										
Di-isopropyl Ether (DIPE)	ND	2.0	ug/l							
Ethyl tert-Butyl Ether (ETBE)	ND	2.0	ug/l							
Methyl-tert-butyl Ether (MTBE)	ND	1.0	ug/l							
tert-Amyl Methyl Ether (TAME)	ND	2.0	ug/l							
tert-Butanol (TBA)	ND	25	ug/l							
Surrogate: Dibromofluoromethane	*27.0*		*ug/l*	*25.0*		*108*	*80-125*			
Surrogate: Toluene-d8	*26.9*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.4*		*ug/l*	*25.0*		*106*	*80-120*			
LCS Analyzed: 05/08/02 (C2E0806-BS1)										
Di-isopropyl Ether (DIPE)	24.6	2.0	ug/l	25.0		98	75-135			
Ethyl tert-Butyl Ether (ETBE)	25.3	2.0	ug/l	25.0		101	70-145			
Methyl-tert-butyl Ether (MTBE)	24.7	1.0	ug/l	25.0		99	50-145			
tert-Amyl Methyl Ether (TAME)	24.3	2.0	ug/l	25.0		97	65-140			
tert-Butanol (TBA)	131	25	ug/l	125		105	80-125			
Surrogate: Dibromofluoromethane	*27.0*		*ug/l*	*25.0*		*108*	*80-125*			
Surrogate: Toluene-d8	*26.9*		*ug/l*	*25.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*27.8*		*ug/l*	*25.0*		*111*	*80-120*			
Matrix Spike Analyzed: 05/08/02 (C2E0806-MS1)					**Source: CLE0023-03**					
Di-isopropyl Ether (DIPE)	24.6	2.0	ug/l	25.0	ND	95	65-150			
Ethyl tert-Butyl Ether (ETBE)	25.3	2.0	ug/l	25.0	ND	101	65-160			
Methyl-tert-butyl Ether (MTBE)	24.8	1.0	ug/l	25.0	ND	99	55-155			
tert-Amyl Methyl Ether (TAME)	25.0	2.0	ug/l	25.0	ND	100	65-150			
tert-Butanol (TBA)	558	25	ug/l	125	420	110	80-140			
Surrogate: Dibromofluoromethane	*26.0*		*ug/l*	*25.0*		*104*	*80-125*			
Surrogate: Toluene-d8	*27.2*		*ug/l*	*25.0*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*26.8*		*ug/l*	*25.0*		*107*	*80-120*			

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0373

Sampled: 04/26/02
Received: 04/29/02

METHOD BLANK QC DATA

OXYGENATES by GC/MS (EPA 8260B)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C2E0806 Extracted: 05/08/02										
Matrix Spike Dup Analyzed: 05/08/02 (C2E0806-MSD1)					**Source: CLE0023-03**					
Di-isopropyl Ether (DIPE)	24.5	2.0	ug/l	25.0	ND	95	65-150	0	20	
Ethyl tert-Butyl Ether (ETBE)	25.2	2.0	ug/l	25.0	ND	101	65-160	0	20	
Methyl-tert-butyl Ether (MTBE)	24.6	1.0	ug/l	25.0	ND	98	55-155	1	20	
Tert-Amyl Methyl Ether (TAME)	25.1	2.0	ug/l	25.0	ND	100	65-150	0	20	
Tert-Butanol (TBA)	567	25	ug/l	125	420	118	80-140	2	20	
Surrogate: Dibromofluoromethane	*25.4*		*ug/l*	*25.0*		*102*	*80-125*			
Surrogate: Toluene-d8	*26.8*		*ug/l*	*25.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*27.3*		*ug/l*	*25.0*		*109*	*80-120*			

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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Enecotech Southwest, Inc. - San Diego
6160 Fairmount Ave. Suite A
San Diego, CA 92120
Attention: Mike Gibbs

Project ID: Wigington, El Capitan Oil
02-01686-001
Report Number: CLD0373

Sampled: 04/26/02
Received: 04/29/02

DATA QUALIFIERS AND DEFINITIONS

CR	The carbon range of the fuel found in the sample = C8-C26
CRa	The carbon range of the fuel found in the sample = C8-C30
QD	Quantitated against a diesel fuel standard.
QG	Carbon range C6-C12 quantitated against a gasoline standard.
ZX	Due to sample matrix effects, the surrogate recovery was outside the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
NR	Not reported.
RPD	Relative Percent Difference

ADDITIONAL COMMENTS

For 8260 analyses:

Due to the high water solubility of alcohols and ketones, the calibration criteria for these compounds is <30% RSD. The average % RSD of all compounds in the calibration is 15%, in accordance with EPA methods.

Del Mar Analytical, Colton
Jeanne Shoulder
Project Manager

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9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689

CHAIN OF CUSTODY FORM

Client Name/Address: Enecotech
6160 Fairmount Ave Suite A
San Diego, CA 92120

Project/PO Number: 02-01686-001

Project Manager:

Phone Number: 619-7990033

Sampler: Ed Kurtis

Fax Number: 619-7990087

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required: EPA 8015/8021 + MTBE	EPA 8015 Diesel	EPA 8260 Fuel oxygenates	Carbon Range C4-C40		Deliver to Core Labs				Special Instructions
MW4	W	VOA/Liter	6/1	4/26/02	1615	HCl/Ice	X	X	X							Confirm MTBE by 8260 (Fuel oxygenates)
MW6					1700				X @ 5/8/02 *							8260 Oxy's to all samples 5/6/02 JA.
MW7					1537				X @ 5/8/02 *							
MW8					1730				X @ 5/8/02 *							
~~MW2-Free Product~~	~~Product~~	~~VOA~~	~~1~~	~~4/26/02~~	~~1300~~	~~Ice~~				~~TVPH~~		X				~~Send to Core Labs~~
~~MW3-Free Product~~			~~1~~		~~1800~~					~~VOA~~		X				~~Core Labs~~
													EK 4/29/02			* Only highest MTBE needs to be confirmed by 8260 per MLG. 5/8/02

Relinquished By:	Date/Time:	Received by:	Date/Time:
[signature]	4/29/02 1505	[signature]	4-29-02 1505
[signature]	4/29/02 1545		
Relinquished By:	Date/Time:	Received in Lab by:	Date/Time:
		[signature]	04/29/02 1845

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (Check)
Intact ✓ on ice ✓ 5°C

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

APPENDIX E

Survey

02-01686-001

Southern California Survey

land • marine • aerial surveys

RECEIVED
APR 29 2002
BY:

TRANSMITTAL

TO	EnecoTech
ATTENTION	Mr. Terry Farley/Mr. Michael J. Gibbs, R.G.
FROM	Mr. John E. Hank, PLS
DATE & TIME	Saturday, April 27, 2002
Wigington Petroleum Well Locations	

Terry/Michael:
Enclosed are the well locations (with invoice) per your request. A digital version is also available via email, if desired.

Thanks Again,

John E. Hank, PLS
Southern California Survey
email: land_surveyor@usa.net

4793 Orcutt Avenue • San Diego, California 92120-2638 619.563.2888 fax 619.582.9929

Site ID	field name	survey date	latitude	longitude	method	datum	x/y accuracy	Survey Firm	GPS Type	xy_survey_desc	casing elevation	method	datum	riser height(casing el - ground el)	benchmark
Wigington	MW-1	4/26/02	32.8499092	116.9515534	CGPS	NAD83	<1meter	Southern California Survey	APM	1991.35 epoch	362.84	CGPS	NGVD29	-0.34	RUIS ROS11252#2160 EL=362.39 CL Mon
Wigington	MW-2	4/26/02	32.8502787	116.9510026	CGPS	NAD83	<1meter	Southern California Survey	APM	1991.35 epoch	365.08	CGPS	NGVD29	-0.22	RUIS ROS11252#2160 EL=362.39 CL Mon
Wigington	MW-3	4/26/02	32.8500204	116.9511234	CGPS	NAD83	<1meter	Southern California Survey	APM	1991.35 epoch	364.16	CGPS	NGVD29	-0.42	RUIS ROS11252#2160 EL=362.39 CL Mon
Wigington	MW-4	4/26/02	32.8502118	116.9514995	CGPS	NAD83	<1meter	Southern California Survey	APM	1991.35 epoch	362.38	CGPS	NGVD29	-0.58	RUIS ROS11252#2160 EL=362.39 CL Mon
Wigington	MW-5 Floor	4/26/02	32.8501811	116.9512843	CGPS	NAD83	<1meter	Southern California Survey	APM	1991.35 epoch	363.42 Floor	CGPS	NGVD29	n/a	RUIS ROS11252#2160 EL=362.39 CL Mon
Wigington	MW-6	4/26/02	32.8500861	116.9516675	CGPS	NAD83	<1meter	Southern California Survey	APM	1991.35 epoch	362.44	CGPS	NGVD29	-0.35	RUIS ROS11252#2160 EL=362.39 CL Mon
Wigington	MW-7	4/26/02	32.8503543	116.9513003	CGPS	NAD83	<1meter	Southern California Survey	APM	1991.35 epoch	362.57	CGPS	NGVD29	-0.38	RUIS ROS11252#2160 EL=362.39 CL Mon
Wigington	MW-8	4/26/02	32.8504326	116.9517173	CGPS	NAD83	<1meter	Southern California Survey	APM	1991.35 epoch	364.51	CGPS	NGVD29	-0.47	RUIS ROS11252#2160 EL=362.39 CL Mon





MW-8



MW-2



MW-3



MW-4 MW-1 MW-6



MW-5

MW-7

Notes

Field Survey performed on April 26, 2002. Well Id's per EnecoTech personnel.
Survey Accuracies per Scope of Services letter dated April 23, 2002.
Horizontal Coordinates are California Coordinates Zone 6, NAD83, 1991.35 epoch

Benchmark

RUIS Benchmark No. ROS11252 PT#2160 Standard Street Survey monument intersection on Woodside Avenue and Gauche Alley

Elevation = 362.39 M.S.L. NGVD29 Datum

CC83 NORTH

Graphic Scale

0 15 30 60

one inch equals thirty feet

364.98 Rim
364.51 4" PVC Casing

MW-8
GRID N: 1889932.40
GRID E: 6346158.66
LATITUDE: 32°51'01.557"
LONGITUDE: 116°57'06.182"

MW-7
GRID N: 1889903.04
GRID E: 6346286.51
LATITUDE: 32°51'01.275"
LONGITUDE: 116°57'04.681"

362.95 North Rim
362.57 4" PVC Casing

MW-4
GRID N: 1889851.62
GRID E: 6346225.01
LATITUDE: 32°51'00.762"
LONGITUDE: 116°57'05.398"

MW-2
GRID N: 1889874.93
GRID E: 6346377.76
LATITUDE: 32°51'01.003"
LONGITUDE: 116°57'03.609"

365.50 Rim
365.08 4" PVC Casing

362.96 Rim
362.38 4" PVC Casing

MW-5
GRID N: 1889840.02
GRID E: 6346291.00
LATITUDE: 32°51'00.652"
LONGITUDE: 116°57'04.624"

363.42 Rim (Floor)

MW-6
GRID N: 1889806.24
GRID E: 6346173.11
LATITUDE: 32°51'00.310"
LONGITUDE: 116°57'06.003"

362.79 Rim
362.44 4" PVC Casing

MW-1
GRID N: 1889741.63
GRID E: 6346207.71
LATITUDE: 32°50'59.673"
LONGITUDE: 116°57'05.592"

363.18 Rim
362.84 4" PVC Casing

MW-3
GRID N: 1889781.20
GRID E: 6346340.03
LATITUDE: 32°51'00.073"
LONGITUDE: 116°57'04.044"

364.58 Rim
364.16 4" PVC Casing

WOODSIDE AVENUE
SS
SEWER MANHOLE
GRAVEL
CONCRETE
PROPANE AST
Metal Building
TRUCK PASS THROUGH
12" COVER
PROPERTY LINE
VENTS
SANITARY SEWER
WATER SUPPLY
Basemap provided by EnecoTech

Date
3/01
3/01
3

LICENSED LAND SURVEYOR
John E. Hank
L.S. 6165
expires 3/31/06
STATE OF CALIFORNIA

John E. Hank P.L.S. — April 27, 2002
Professional Land Surveyor — Date:
License No. 6165 Expires March 31, 2002

Southern California Survey
land · marine · aerial surveys
Chicago, Illinois • San Diego, California • Scottsdale, Arizona
(619) 563-2888 fax (619) 582-9929

EnecoTech®
Wigington Petroleum
11427 Woodside Avenue
Lakeside, California

ene-lake.dwg April 27, 2002 10:10 am ©2002 Southern California Survey

APPENDIX F

Waste Manifests

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 18869

2. Page 1 of 1

3. Generator's Name and Mailing Address
El Capitain Oil
11427 Woodside Ave., Santee Ca. 92071-4725

4. Generator's Phone 619-299-0033 Contact: Gavin Bauer

5. Transporter 1 Company Name
EPR ENVIRONMENTAL SERVICES, INC.

6. US EPA ID Number
CAR000011205

A. Transporter's Phone
619-956-2770

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
DOME ROCK INDUSTRIES, INC.
3125 WEST DOME ROCK ROAD
QUARTZSITE, AZ. 85359

10. US EPA ID Number
AZR000035915

C. Facility's Phone
520-927-7374

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous Waste Solid	010	DM	0650.00	P
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
11a. Acceptance#10058 (Soil Cuttings)

E. Handling Codes for Wastes Listed Above
01

15. Special Handling Instructions and Additional Information

ALWAYS WEAR APPROPRIATE P.P.E. AND USE SAFE HANDLING METHODS
24 HOUR EMERGENCY CONTACT: (800)424-3900 CHEMTREC
Mail To: Enecotech-6160 Fairmount Ave.,Ste A, S.D., Ca. 92120

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: RANDY JARRETT
Signature: Randy Jarrett
Month Day Year: 02 28 01

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: RANDY JARRETT
Signature: Randy Jarrett
Month Day Year: 02 28 01

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: JERRY R. JARRETT
Signature: Jerry R. Jarrett
Month Day Year: 03 05 01

GENERATOR
TRANSPORTER
FACILITY

ORIGINAL - RETURN TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.:

Manifest Document No.: 20549

2. Page 1 of 1

3. Generator's Name and Mailing Address
El Capitain Oil
11427 Woodside Ave., Santee, CA 92071-4725

4. Generator's Phone (619-299-0033 Contact: Mike Gibbs

5. Transporter 1 Company Name: EFR Environmental Services, Inc.

6. US EPA ID Number: C A R 0 0 0 0 0 1 1 2 0 5

A. Transporter's Phone: 619-956-2770

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address
Dome Rock Industries, Inc.
3125 W. Dome Rock Road
Quartzsite, AZ 85359

10. US EPA ID Number: A Z R 0 0 0 0 3 5 9 1 5

C. Facility's Phone: 928-927-7688

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous Waste Solid	003	D M	01500	P
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
11a. Acceptance#D1055 (Soil Cuttings) ~~Hb.~~
Mail C/O Enecotech Southwest/Sunbelt-6160 Fairmount Ave., Ste. A, San Diego, CA 9212

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
ALWAYS WEAR APPROPRIATE P.P.E. AND USE SAFE HANDLING METHODS

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: X BARBARA FRIEL
Signature:
Month: 04 Day: 25 Year: 02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Octavio Quintero
Signature:
Month: 04 Day: 25 Year: 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month: Day: Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name:
Signature:
Month: Day: Year:

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

1846-001

FILE COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 20751

2. Page 1 of 1

RECEIVED
MAY - 1 2002
BY

3. Generator's Name and Mailing Address
Able Auto Service
854 Metcalf Street, Escondido, CA

4. Generator's Phone (619) 299-0033 Contact: Ed Kontos

5. Transporter 1 Company Name
EFR Environmental Services, Inc.

6. US EPA ID Number
C A R 0 0 0 0 0 1 1 2 0 5

A. Transporter 1 Phone 619-956-2770

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Dome Rock Industries, Inc.
3125 W. Dome Rock Road
Quartzsite, AZ 85359

10. US EPA ID Number
A Z R 0 0 0 0 3 5 9 1 5

C. Facility's Phone
928-927-7688

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous Waste Solid	001	DM	00300	P
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
11a. Acceptance#6440DM003 (Soil Cuttings)

E. Handling Codes for Wastes Listed Above
01

15. Special Handling Instructions and Additional Information
ALWAYS WEAR APPROPRIATE P.P.E. AND USE SAFE HANDLING METHODS

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Octavio Quintero agent	Octavio Quintero	05	14	02

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Octavio Quintero	Octavio Quintero	05	14	02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
JERRY R. JARRETT	Jerry R Jarrett	05	23	02

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

David Felix

EnecoTech Southwest, Inc.
6160 Fairmount Ave. • Suite A
San Diego, CA 92120
(619) 299-0033 • Fax (619) 299-0087
Lic. #A-773774

EnecoTech
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITY

RECEIVED
2003 JUN 9 AM 8 30
D. E. H.
MAILROOM

Project 1686-001

June 4, 2003

Mr. Alan V. Patton
Manager
UST Cleanup Fund
State Water Resources Control Board
Division of Financial Assistance
1001 I Street
Sacramento, CA 95814

RE: Appeal of Fund Manager Decision Regarding Eligible Costs Letter of April 9, 2003 Claim Number 912; Site Address 11427 Woodside Avenue, Santee, CA

Dear Mr. Patton:

EnecoTech Southwest, Inc. (EnecoTech) is in receipt of the referenced letter regarding your review and agreement with the staff decision to only allow 50% of past and future costs to be reimbursed for the cleanup of the petroleum contamination at the subject site. This decision appears to be based strictly on the presence of above ground storage tanks (USTs). As this decision has created significant problems, this correspondence serves as an appeal to that decision. We would hope that this additional information might be used to reevaluate your decision and reinstate full coverage to this case.

STATEMENT OF REASONS

First, there was a mistake made in the legends on two maps submitted as part of the report (EnecoTech's March 7, 2003, Comprehensive Site Assessment Report) and it is necessary to correct this labeling. Iso-concentration lines for benzene and MTBE, for groundwater concentrations, were labeled as "mg/kg". Please note that these concentrations are actually in micrograms per liter and should be labeled as "ug/l. Corrected copies (Figures 11 and 13) have been attached. Please insert the corrected maps into your copy of the report.

Gasoline contamination is the cleanup priority

The fact that diesel impact is present is not being discounted, but is being given the proper priority in the cleanup. Benzene, a gasoline component, and MTBE, a gasoline additive, respectively, will be the constituents that drive the cleanup of soil and groundwater and ultimately, the closure of the case. Benzene has historically been the regulatory contaminant of concern because of carcinogenic health effects, and MTBE has become an issue due to the contamination and resulting closure of numerous drinking water wells in the state.

Recycled Paper

As indicated in the attached email memo (Attachment A) from Mr. David Felix, San Diego County Department of Health, Site Assessment and Mitigation Division (SAM) to Mr. Mike Gibbs, EnecoTech, regarding the Site Assessment Report of March 7, 2003, ..."cleanup will be driven by the need to reduce volatile gasoline constituents (benzene and MTBE)." The general remedial approach recommended by EnecoTech in the March 7, 2003, report and verbally concurred with by the San Diego County Health Department is completely geared toward reducing volatile gasoline constituents, especially benzene and MTBE. This recommended approach would not be highly effective in cleaning up diesel except as incidental to the gasoline constituent cleanup.

As stated in the second paragraph of Mr. Felix's memo, "The cleanup goal is to eliminate the environmental and human health risk." Benzene is an identified carcinogen and has a drinking water cleanup level of 1.0 ug/l. MTBE has an odor and taste threshold cleanup level of 13 ug/l and, although from a separate source, was responsible for the shut down of public drinking water wells less than a mile from the subject site. Toluene, ethylbenzene, and xylene are linked to human health and reproduction ailments.

It is fully expected that closure of this case will not be obtained until benzene and MTBE are both cleaned up. If the only release from the site were diesel, SAM might not even require active cleanup, but rather prefer to monitor natural attenuation. This is particularly the case since diesel has not been declared a carcinogen in the State of California. Again, diesel impact from this site is simply being given the proper priority and it should not result in a 50% forfeiture of reimbursement funds.

The gasoline plume is more widespread than diesel

We agree that diesel impact is almost as widespread as gasoline, but the concentrations of both diesel and gasoline, when the entire impacted area is considered, are similar. At numerous offsite sample points, gasoline concentrations were detected at much higher levels than diesel. In fact, the gasoline plume extends farther off the property than the diesel plume. Combined with the fact that gasoline components are the constituents of concern by the LOP, cleanup of the gasoline-impacted area will require significant effort and cost. Since gasoline has never been stored in above ground tanks at the site, it would seem logical that all gasoline impact was a result of USTs and not ASTs.

Gasoline and MTBE is detected in most sampling locations

Regarding the diesel concentrations in MW-3, please note that significant levels of gasoline, including benzene and MTBE, were detected in this well from the same sampling event. This monitoring well, MW-3, is the southeastern-most well on the site, is also down gradient from the four former underground diesel tanks, and just east of the 2,500 gallon UST that held diesel for a time before being removed in 1998. Based on the pattern of migration and the length of time the diesel USTs were in use, relative to dispensers 19 and 20, it is not likely that these dispensers and underground piping are the source of the free product in MW-3. This can be supported by increased concentrations of gasoline and diesel noted in samples collected from borings proceeding away and down gradient from MW-3.

Monitoring well MW2 is located adjacent to the current multi-compartment UST. There has never been any documentation that there is an offsite source impacting the property. However, evidence suggests that a MTBE vapor leak may be occurring from the vents of this tank. Mr. Felix has documented this observation as an additional release at the site in his attached memo.

The AST systems have been less likely to have leaked diesel than the UST systems

The USTs onsite have well documented releases of diesel based on the high concentrations in soil samples taken during tank and piping removals (UST System Closure Report and Date, Attachment B). According to the records reviewed, the USTs, including those containing diesel, have experienced many problems including holes, product piping leaks, noticeable odors when exposed/removed and soil samples indicating releases (Attachment B). There are also numerous references to UST system problems and repairs. The ASTs do not have this record of releases, problems, and repairs.

Only five of the ASTs are indicated to have ever held diesel, while nine USTs have held diesel. Most of the ASTs have no underground piping. The only ASTs indicated to have ever had underground piping are A-12, A-13, and A-14. All but two of the USTs have had underground piping. All ASTs have paved surfaces below the tank and any above ground piping. These paved surfaces would significantly reduce infiltration and increase need for speedy cleanup of any ponded/flowing produce from sheer necessity, due to customer safety issues (slip, flammability, toxicity, annoyance, perception of a poorly-run business), regulatory intervention, and, because of the site slope toward Woodside Avenue (Photos 1 an 2), traffic safety, and public utility (City storm drain) issues. Any leak/spill flow across the paved surfaces would be apparent to a worker onsite, customer, or passerby. Any large release would impair the access to and operation of the subject business and nearby businesses on the southeast side of Woodside Avenue.

Diesel USTs were in service (Table 1) for a much longer time (consistently from the 1960s to present) than diesel ASTs (periodically since 1981). The longer service period would be accompanied by a greater chance of failure and leaks. Diesel supply to the front dispensers was originally from USTs, then from A-12, then from the four back USTs by way of a very long piping run which extended along the southern property line, and now by the new UST (Figure 4). The piping from A-12 was a short run which extended along the northeast side of building to the front dispensers. This piping does not appear to have had a major release based on the extent of diesel impact identified on Figures 8 and 13. The apparent shared piping at the front dispensers appears to have been common to both the AST and UST arrangements (Photo 9). The Card-Lock dispensers in the rear are a relatively recent feature, only in operation since approximately 1997, with diesel supplied from A-12, A-13, and A-14 (Table 1). None of this piping is associated spatially with the higher levels of contamination identified during the site assessment.

Pattern of contamination supports UST releases

Based on the historical groundwater gradient (southwest to northwest over time), known documented releases onsite, and the existing location of contaminant plumes, the impact on and offsite appears to have come from:

- MTBE - USTs
- Benzene - USTs
- Gasoline - USTs
- Diesel - USTs (see below):

Since diesel was held in both USTs and ASTs, a close evaluation of the probable source(s) follows. The various potential sources of releases were compared against the actual soil and groundwater concentration existing onsite, considering the historic direction of groundwater flow onsite.

The highest diesel impact found in soil is in the area of Borings B4 and B17, near the middle portion of the southern property line. The closest tank sources are USTs RU-6 and RU-9 and the product line from RU-10 and RU-11 (Figure 4). Based on its location and long period of use, the UST product line is the most likely source of the highest diesel impact, although the two USTs are possible sources also. The nearest ASTs that have held diesel (A-12, A-13, and A-14) are a less likely source since they are further away. The piping formerly from A-12, which extended along the northeast side of the building, does not appear to have had a major release based on the extent of diesel impact identified on Figures 8 and 13. The piping from A-12, A1-13 and A-14 to the back dispensers (Photo 10) is relatively new. If this piping was the source for the highest diesel impact, one would expect to see impact in Boring B5 also.

The highest groundwater impact onsite is found in the area of Boring B3. It should be noted that this location is approximately 60 feet down gradient of the highest soil concentrations and appears to have the same probable source as identified for the soil.

Free product has been measured in MW2, MW3, and MW4 and identified, but unable to be measured in Borings B3, B4, B13, and B17. The free product in all five product samples analyzed consists of gasoline and diesel, complicating any attempt to evaluate the likely source(s). However, when evaluating a probable diesel source, free product occurrence can be divided into three general areas. The source for each will be evaluated separately.

Middle southern property line area – This is the same general area as the highest soil and groundwater impact and has had free product in Borings B3, B4, B17, and monitoring well MW3. The source in the borings appears to have the same probable source as identified for the soil and groundwater (piping from RU-10 and RU-11 and/or RU-9 and RU-6). The source for the diesel product in MW3 is most likely from USTs RU-10 through RU-13 or the piping from RU-10 and RU-11, based on the length of time these systems were in place and the documented releases from the USTs, and considering that the gradient has been northwest in the past. A lesser possibility is a release from the diesel-piping coming from A-12 through A-14, although only in service for approximately five years.

Front area – This area has free product in B13 and MW4 and clearly has the front dispensers and piping as a most likely source.

Northeastern property line – This area has free product in MW2 and has, as the most likely source, the newer UST and its associated piping. No other source is envisioned since B18 had no detectable concentrations of gasoline or diesel in the groundwater. No offsite source is known to exist, and the immediately adjacent property consists of a sizable parking area and no known tanks.

Based on the above evaluation, all plumes can easily be attributed to UST releases onsite.

A larger volume of diesel fuel was stored in USTs

In your letter, it is implied that diesel is, and always has been, stored and dispensed from ASTs. This is not the case. In fact, the piping you refer to, extending from A-12 and A-14 to the south - central card lock dispensers, is a relatively new arrangement having been installed sometime between 1996 and 1998. Diesel was stored in A-12 historically, and was piped to some of the dispensers in the northeastern (front) portion of the property, but this same tank and piping were documented to have been connected by manifold to a 7,500 gallon UST during the 1980's (see hand drawn map, Attachment B). When this particular arrangement ended is not known.

Diesel was also stored in other USTs including the four previously located in the southeastern portion of the property, two of which provided diesel fuel to the northwestern dispensers at the front of the property by way of piping along the southern property line (See Figure 4). Based on the location alone, this piping appears to be the most likely source for the highest diesel concentrations in soil and groundwater onsite. Two USTs near the western end of the building, a 2,500 and the 7,500 gallon USTs (RU-9 and RU-6), were also used to store diesel fuel during the 1980's and 1990's and may have also been piped to the front dispensers. All these underground diesel tanks were removed in 1998. It should also be noted that diesel is being currently dispensed from the newer UST on the eastern side of the property as well as A-12 through A-14.

Most ASTs have not been connected to underground piping and contained products other than diesel and kerosene

It needs to be made clear that, of the 18 above ground tanks on the Woodside property, none sit directly on unpaved ground, and only five have ever been connected to underground piping. The six ASTs (A-1 through A-6, Photos 5 and 6) in the extreme southern portion of the property sit on raised concrete pedestals within concrete secondary containment, are topographically higher than the surrounding area, and have predominately contained motor oils or hydraulic fluids (two have held diesel periodically). All remaining ASTs either sit above the ground on stands (Photos 7and 8), allowing the tank itself to be visually inspected or are concrete encased tanks of the "Convault" style. Thus, attributing 50% of the impact to the ASTs is excessive.

Some reported spills may have been leaks from UST systems

Surface spills at fuel storage and dispensing facilities do occur but are typically cleaned up rapidly. Some of these spills, although manifested and reported as a surface spill, also occur as a result of the failure of equipment associated with a UST system. Adding to this, that most surface spills are minor or occur on impenetrable surfaces, would suggest that this source of subsurface impact at the site would be minimal. There also seems to be some confusion over a supposed 6,000-gallon spill. Although there is reference to a kerosene spill in 1991 and some other minor spills observed during regulatory inspections, an indication of a 6,000-gallon spill was not found. This reference appears to have its source in the original Fund Application submitted by the claimant. EnecoTech indicated in the narrative for reimbursement request number one that the reference to a 6,000-gallon release appeared to be erroneous and without foundation and should be disregarded. Detailed review of the regulatory files supports our original opinion.

In the case of the report of a release by telephone to Mr. Felix, it was never documented when or where this release occurred, from what storage container, nor the volume of the release. The nature of the report of what has been construed to be a large kerosene spill is questionable for a number of reasons. It did not include information on where, when, or how release took place, who witnessed it or did something about it, no follow up report was provided as promised, and there is no record of action by the LOP. If any large spill took place, it would have been prone to run off. Because little infiltration would be expected, minimal impact to the subsurface soil and groundwater onsite would be expected. The lack of a substantial kerosene release having taken place at the site is supported by:

1) The labs do not identify kerosene in any of the soil or groundwater samples, and,

2) None of the borings placed indicated soil impact from the surface downward and decreasing with depth (Figure 10b), as you would expect with a surface spill that had percolated downward from the surface to the groundwater.

In fact, a review of files has not located any formal documentation of releases from ASTs or spills.

No evidence to suggest illegal disposal of petroleum products down wells or to the surface

Finally, the issue of the 12-inch diameter well discovered in 1988 and the EnecoTech statement about product in this specific well, "...does not reflect HCs (hydrocarbons) present in the adjacent formation". We made this statement to suggest that the thickness of the product in the well was the result of a build up and retention of product from the groundwater, but did not necessarily represent the thickness of the product in the geologic formation. To imply that the EnecoTech's statement represents dumping of product down a well is a serious misinterpretation of the report. There was absolutely no evidence to indicate this well was used as some type of disposal conduit, then or now.

CLAIMANTS GRIEVANCES

The Fund Manager's decision to reduce Wigington Petroleum, Inc.'s fund reimbursement to 50% of expended monies has seriously damaged the claimants ability to pay for continued assessment, and eventual cleanup, of gasoline contaminants in soil and groundwater at the site and surrounding area. In addition, this decision has created immense emotional stress and pain and suffering to the claimant. Coverage from the cleanup fund was initially at the normal 100%. After the first claim was reimbursed (and without warning that an evaluation to reduce coverage was being performed by the Fund) the coverage was then unexpectently reduced.

The original unauthorized release was reported in 1988 by the Wright Company; who had purchased the property and operation from the claimant. Wright filed for bankruptcy in 1990. A court appointed trustee took over operations at the site resulting in numerous violations issued to the property for non-compliance with various requirements. Finally, Wigington acquired the property out of bankruptcy in 1994 and was faced with the daunting task of re-building the business that had literally been destroyed. At the same time, the claimant was faced with having to prepare for the significant expenses associated with the upgrades to underground fuel storage tanks required to be completed by 1998. These upgrades to the underground tank systems were completed in May of 1998, ahead of the nationally mandated deadline, when the last of the older single steel-walled, underground diesel and gasoline storage tanks were removed.

In the year 2001, the President of Wigington Petroleum, Inc., Mr. J. Wigington, was tragically killed in a traffic accident. Mrs. Wigington then had to take over directing day-to-day operations of the facility while having to deal with the distressing task of settling her husband's estate. In 2001, due to the stress and emotional upheaval of her situation, Mrs. Wigington suffered a debilitating stroke from which she is still recovering. To say that the decision to reduce the reimbursement coverage to 50% of expenses created significant additional duress would be putting it lightly.

These stresses will continue to increase as delays created by the lack of funding will allow the contaminant plume to continue to spread to more properties in the area. This not only impacts more soil and groundwater requiring more effort and funds to cleanup to regulatory standards, but also could also financially affect additional property owners. Already, four public water supply wells within a mile of the property have been shut down because of MTBE contamination **from another source**. If more water wells are affected or if property owners are impacted financially, it is likely that compensation for these damages would be pursued through litigation. All in all, these factors are creating even more expense to accomplish the mandated cleanup of soil and groundwater impacted by underground storage tanks.

The spread of the contaminant plume is towards the San Diego River; a major surface water body in the County located approximately 850 feet northwest of the site (Photos 3 and 4). Used for fishing and recreation by the general public, the river also functions as significant riparian habitat for numerous bird and other wildlife species. It has not been determined if the plume has reached the river, however, there is no doubt the groundwater system that has been impacted by the contaminants discharges to the San Diego River. More delay allows the spread of the plume and jeopardizes the environment and the public health.

REMEDY REQUESTED

To promptly address the assessment of the contaminant plume and hasten the cleanup to protect the environment and public health, Wigington Petroleum, Inc. respectfully requests that reimbursement for cleanup of the soil and groundwater impacted by operations at the site be returned to 100% of eligible costs.

If you have any questions please do not hesitate to contact our office.

Sincerely,
EnecoTech Southwest, Inc.

Michael J. Gibbs
Senior Geologist

Dennis F. Fransway
Vice President

Attachments: Photographs
Figures 4, 8, 10b, 11, and 13
Table 1
A – David Felix email Memo
B – Documented UST Problems

PHOTOGRAPHS



Photo 1: Front of Facility.



Photo 2: Facility slopes toward road.



Photo 3 & 4: Overall site setting including proximity to San Diego River.



Photo 5: Back AST's



Photo 6: Back AST's concrete pedestals. Slab and wall containment.



Photo 7: Mid-Property AST's.



Photo 8: In-Building AST's.

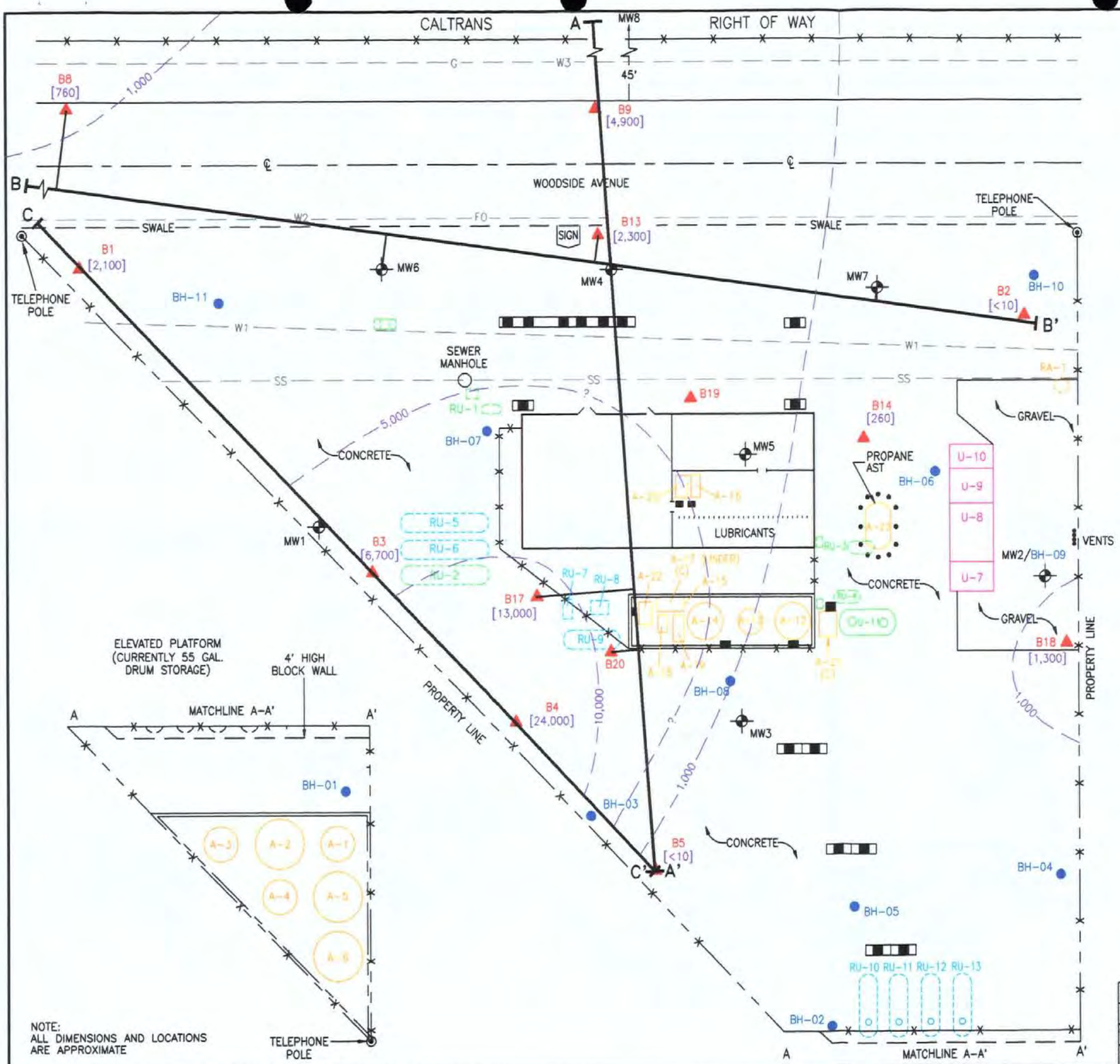


Photo 9: Older front dispenser area.



Photo 10: Newer back card-lock dispenser area.

FIGURES



LEGEND

- MW1 – MONITORING WELL WITH DESIGNATION
- B18 – BORING AND DESIGNATION
- BH-10 – BOREHOLE AND DESIGNATION
- – DISPENSER ISLAND WITH DISPENSERS IN BLACK
- – FORMER DISPENSER
- – (4) UST's REMOVED IN MAY 1988 (LOCATION APPROXIMATE)
- – (1) UST's INSTALLED IN MAY 1988
- – (9) UST's REMOVED IN MAY 1998 (LOCATION APPROXIMATE)
- – (1) UST INSTALLED IN 1998 (4 COMPARTMENT)
- – ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- U-8 – UST DESIGNATION
- A-6 – AST DESIGNATION
- (C) – CONVAULT–TYPE TANK
- – AST SECONDARY CONTAINMENT
- RU-1 – REMOVED UST DESIGNATION
- RA-1 – REMOVED AST DESIGNATION
- – FENCE

UTILITIES

- —SS— – SANITARY SEWER
- —W1— – 68" WATER
- —W2— – 48" WATER
- — G — – 2" + 6" NATURAL GAS
- —W3— – 36" WATER
- —FO— – FIBER OPTICS
- [1,300] – TPHd IN mg/kg
- – TPHd CONTOUR (CONTOURS QUERRIED WHERE INFERRED)
- A — A' – LINE OF CROSS SECTION

0 15 30
SCALE IN FEET

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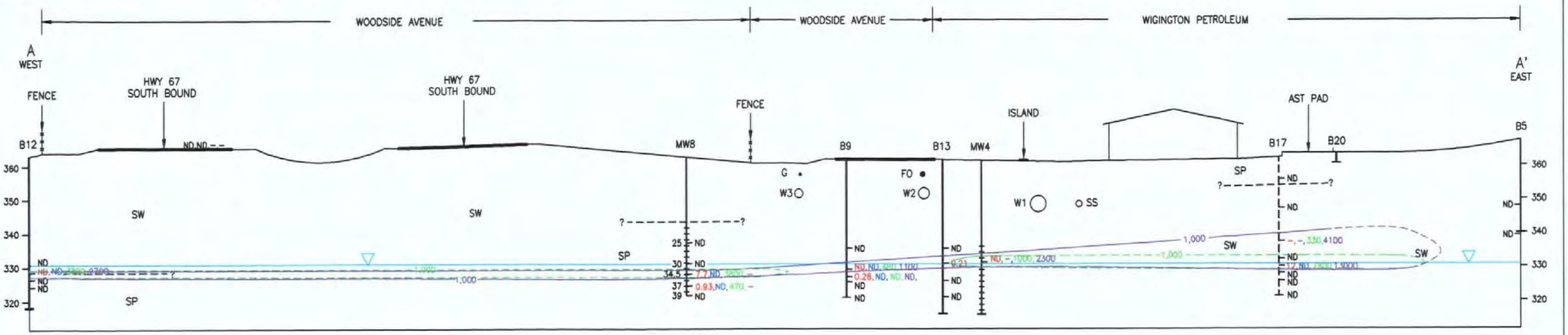
Project: WIGINGTON PETROLEUM

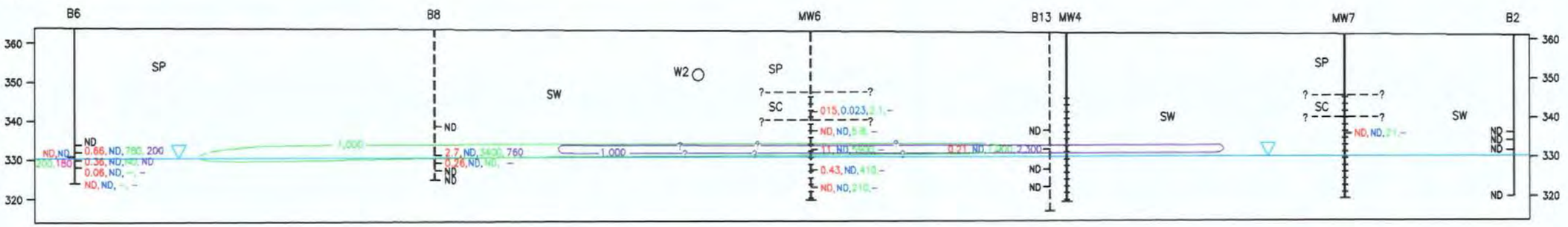
11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

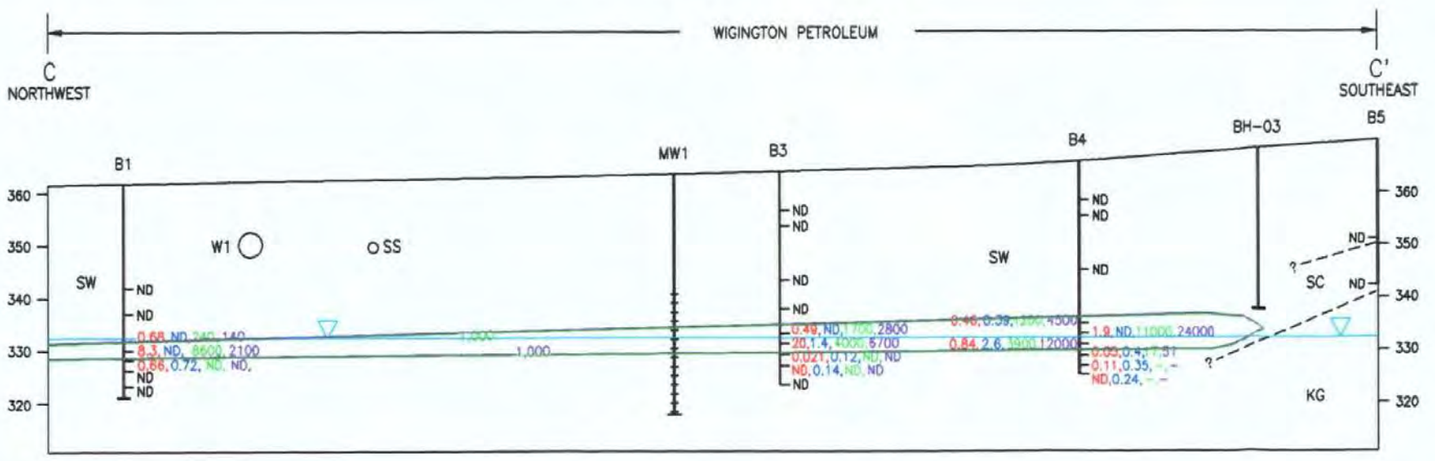
Title: SOIL CONCENTRATIONS TPHg AND TPHd

		Date
Design:	MJG	3/01
Drawn:	MJL	3/01
Checked:	MJG	3/01
Approved:	MJG	3/01

File No.: 02-01686-001 | Date: 3/01 | DWG/FIG 8
ACAD File No.: TPHGAPPEAL | Rev.: 11/2002 | Sheet of







LEGEND

- B6 — BORING AND DESIGNATION
- ND — SAMPLE RESULT ND FOR BENZENE, MTBE, TPHg AND TPHd
- 0.66 — SAMPLE RESULT FOR BENZENE, MTBE, TPHg AND TPHd
- SAMPLE AT BOTTOM
- NO SAMPLE AT BOTTOM
- PROJECTED BORING
- WELL SCREEN
- SW — USCS CLASSIFICATION
- APPROX. GROUNDWATER TABLE
- TPHd CONTOUR
- TPHg CONTOUR
- BENZENE, MTBE, TPHg, TPHd — ANALYTICAL RESULTS IN mg/kg

0 15 30
SCALE IN FEET
HORIZONTAL=VERTICAL

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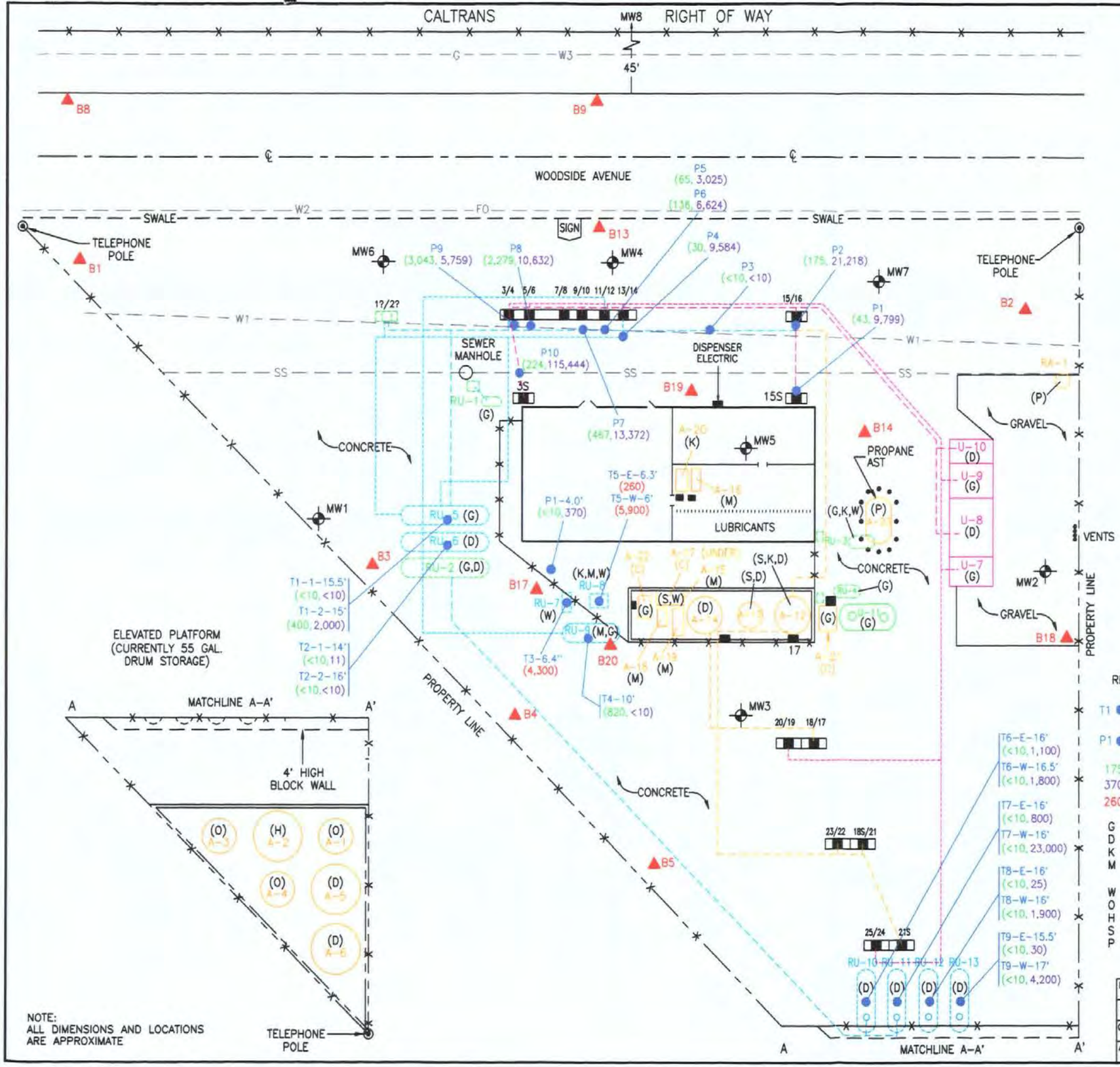
Project: WINGINGTON

11427 WOODSIDE AVENUE
LAKESIDE, CALIFORNIA

Title:
CROSS SECTIONS WITH TPHg AND TPHd CONTOURS

		Date
Design:	MJG	1/03
Drawn:	MJL	1/03
Checked:	MJG	1/03
Approved:	MJG	1/03

File No.: 02-01686-001 | Date: 1/2003 | 10b
ACAD File No.: AABBCC10B | Rev.: | Sheet of



LEGEND

- MW1 – MONITORING WELL WITH DESIGNATION
- B18 – BORING AND DESIGNATION
- 3/4 – DISPENSER ISLAND WITH DISPENSERS IN BLACK
- – FORMER DISPENSER
- – (4) UST's REMOVED IN MAY 1988 (LOCATION APPROXIMATE)
- – (1) UST's INSTALLED IN MAY 1988
- – (9) UST's REMOVED IN MAY 1998 (LOCATION APPROXIMATE)
- – (1) UST INSTALLED IN 1998 (4 COMPARTMENT)
- – ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- U-8 – UST DESIGNATION
- A-6 – AST DESIGNATION
- (E) – CONVAULT-TYPE TANK
- – AST SECONDARY CONTAINMENT
- RU-1 – REMOVED UST DESIGNATION
- RA-1 – REMOVED AST DESIGNATION
- – FENCE

UTILITIES

- —SS— – SANITARY SEWER
- —W1— – 68" WATER
- —W2— – 48" WATER
- — G — – 2" + 6" NATURAL GAS
- —W3— – 36" WATER
- —FO— – FIBER OPTICS

PRODUCT LINES

- --------- – GASOLINE
- – – – – – DIESEL

REMOVED SAMPLES (mg/kg)

- T1 ● TANK REMOVAL SAMPLE
- P1 ● REMOVED PRODUCT LINE SAMPLE
- 175 TPHg
- 370 TPHd
- 260 TRPH

- G – GASOLINE
- D – DIESEL
- K – KEROSINE
- M – MINERAL SPIRITS (SOLVENT)
- W – WASTE OIL
- O – FRESH OIL
- H – HYDRAULIC FLUID
- S – STOVE OIL
- P – PROPANE

0 15 30
SCALE IN FEET

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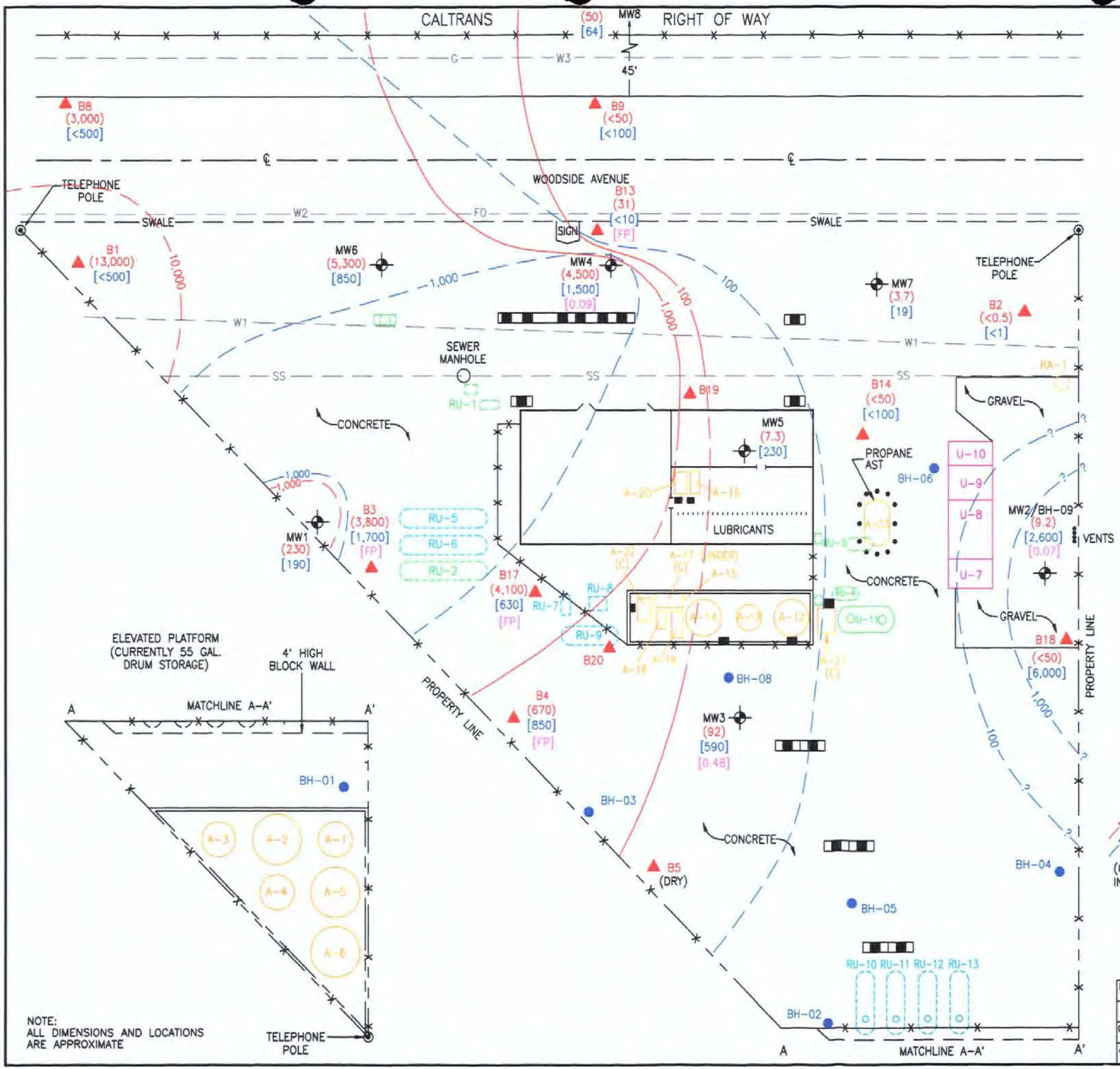
Project: WIGINGTON PETROLEUM

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: TANK AND PRODUCT PIPING LOCATIONS AND SOIL LABORATORY RESULTS FROM REMOVALS

		Date
Design:	MJG	3/01
Drawn:	MJL	3/01
Checked:	MJG	3/01
Approved:	MJG	3/01

File No.: 02-01686-001 | Date: 3/01 | DWG/FIG 4
ACAD File No.: PIPE1102 | Rev.: 11/2002 | Sheet of



LEGEND

- MW1 – MONITORING WELL WITH DESIGNATION
- BH-10 – BOREHOLE AND DESIGNATION
- B18 – BORING AND DESIGNATION
- – DISPENSER ISLAND WITH DISPENSERS IN BLACK
- – FORMER DISPENSER
- – (4) UST's REMOVED IN MAY 1988 (LOCATION APPROXIMATE)
- – (1) UST's INSTALLED IN MAY 1988
- – (9) UST's REMOVED IN MAY 1998 (LOCATION APPROXIMATE)
- – (1) UST INSTALLED IN 1998 (4 COMPARTMENT)
- – ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- U-8 – UST DESIGNATION
- A-6 – AST DESIGNATION
- U-7 – CONVAULT-TYPE TANK
- – AST SECONDARY CONTAINMENT
- RU-1 – REMOVED UST DESIGNATION
- RA-1 – REMOVED AST DESIGNATION
- – FENCE

UTILITIES

- —SS— – SANITARY SEWER
- —W1— – 68" WATER
- —W2— – 48" WATER
- — G — – 2" + 6" NATURAL GAS
- —W3— – 36" WATER
- —FO— – FIBER OPTICS
- (<0.5) – BENZENE IN ug/l
- [<0.5] – MTBE IN ug/l
- [0.07] – FREE PRODUCT THICKNESS

0 15 30
SCALE IN FEET

100 – BENZENE CONTOUR
100 – MTBE CONTOUR
(CONTOUR QUERRIED WHERE INFERRED)

EnecoTech®
ENVIRONMENTAL CONSULTANTS

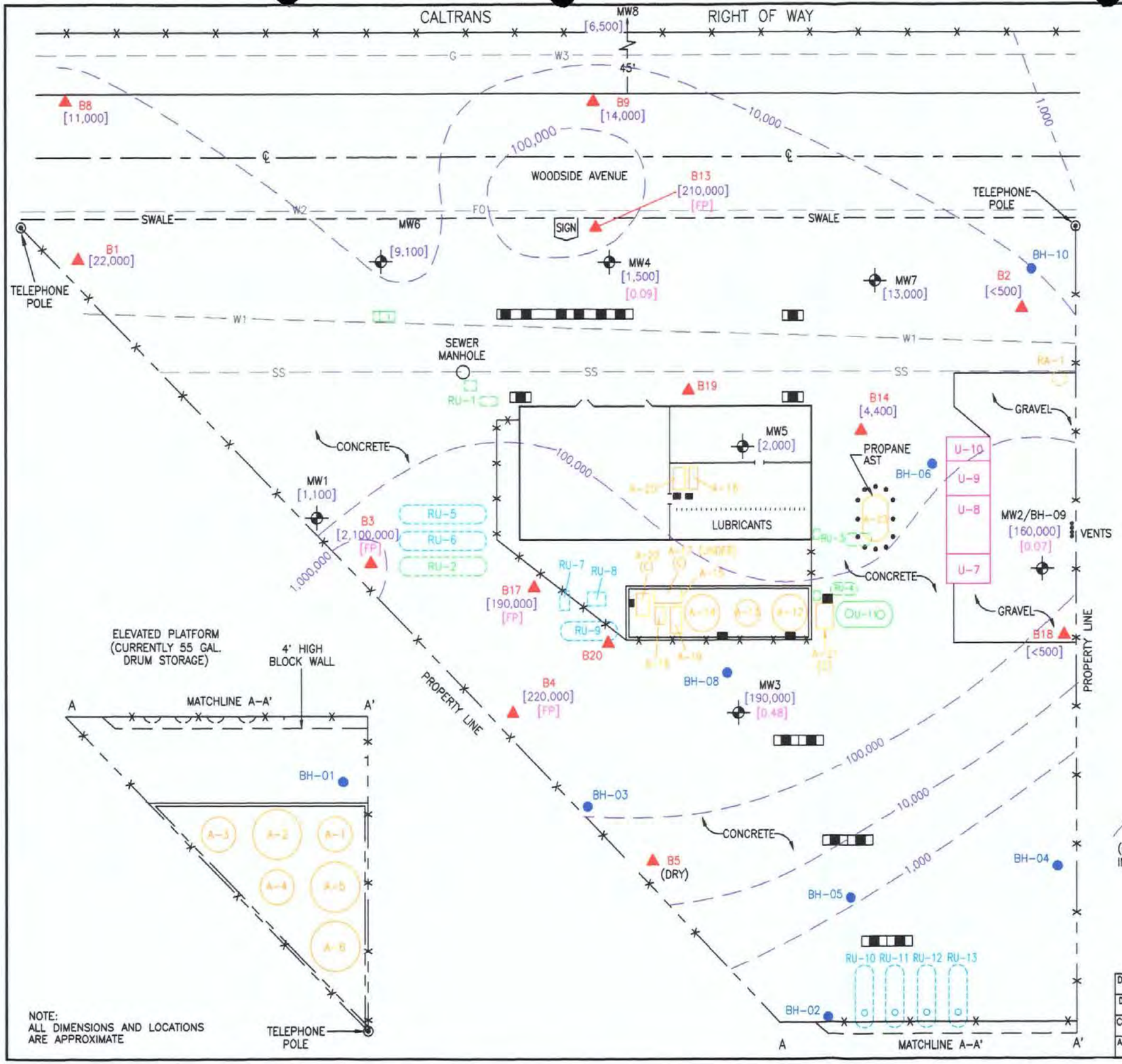
Project: WIGINGTON PETROLEUM

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: GROUNDWATER CONCENTRATIONS BENZENE AND MTBE (4/02 AND 12/02)

		Date
Design:	MJG	1/03
Drawn:	MJL	1/03
Checked:	MJG	1/03
Approved:	MJG	1/03

File No.: 02-01686-001 | Date: 1/2003 | DWG/FIG 11
ACAD File No.: GWCONC103 | Rev.: | Sheet of



LEGEND

- MW1 – MONITORING WELL WITH DESIGNATION
- B18 – BORING AND DESIGNATION
- BH-10 – BOREHOLE AND DESIGNATION
- – DISPENSER ISLAND WITH DISPENSERS IN BLACK
- – FORMER DISPENSER
- – (4) UST's REMOVED IN MAY 1988 (LOCATION APPROXIMATE)
- – (1) UST's INSTALLED IN MAY 1988
- – (9) UST's REMOVED IN MAY 1998 (LOCATION APPROXIMATE)
- – (1) UST INSTALLED IN 1998 (4 COMPARTMENT)
- – ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- U-8 – UST DESIGNATION
- A-6 – AST DESIGNATION
- – CONVAULT-TYPE TANK
- – AST SECONDARY CONTAINMENT
- RU-1 – REMOVED UST DESIGNATION
- RA-1 – REMOVED AST DESIGNATION
- – FENCE

UTILITIES

- —SS— – SANITARY SEWER
- —W1— – 68" WATER
- —W2— – 48" WATER
- — G — – 2" + 6" NATURAL GAS
- —W3— – 36" WATER
- —FO— – FIBER OPTICS
- [1,300] – TPHd IN ug/l
- [0.07] – FREE PRODUCT THICKNESS

0 15 30
SCALE IN FEET

1,000 – TPHd CONTOUR
(CONTOUR QUERRIED WHERE INFERRED)

EnecoTech
ENVIRONMENTAL CONSULTANTS

Project: WIGINGTON PETROLEUM

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: GROUNDWATER CONCENTRATIONS TPHg AND TPHd (4/02 AND 12/02)

		Date
Design:	MJG	1/03
Drawn:	MJL	1/03
Checked:	MJG	1/03
Approved:	MJG	1/03

File No.: 02-01686-001 | Date: 1/2003 | DWG/FIG 13
ACAD File No.: GWTPHG103APPEAL | Rev.: | Sheet of

TABLE 1

Table 1: El Capitan[illegible] Co. - Current and Past Dies[illegible] Tank Information

Tank Designation	Size	Date	Contents	Status	Installation Date	Removal Date	Removal Group	Comments
Existing USTs								
U-10	3,000	11/97 05/01	Super Gas Red-Dye Diesel	 Active Use	01/98			Compartment Tank - 20000 Total
U-8	8,000	11/97 05/01	Diesel Diesel	 Active Use	01/98			Compartment Tank - 20000 Total
U-7	4,000	11/97 05/01	Red-Dye Diesel Prem. UL Gas	 Active Use	01/98			Compartment Tank - 20000 Total
Removed USTs								
RU-3	800? 550 880 1,000	10/78 08/81 05/88 05/88	Low Lead Gas Kerosene Unused (Diesel) Gasoline	 Removed	?	 05/88	 R1 Tank ID No. 3	 Holes? No Odors? Yes Pipe Leak Yes
RU-6	7,500	6/80? 08/81 04/98 05/98	Unused (Diesel) Diesel Diesel Unused (Diesel)	 Removed	?	 05/98	R2 Tank ID No. 2	 Holes? No Odors? Slight
RU-9	2,500	08/86 05/89 01/92 03/93 05/95 10/97 03/98 05/98	Solvent Reg. Gas Reg. UL Gas Reg. UL Gas UL Sup. Gas UL Sup. Gas Diesel Gasoline	 Removed	?	 05/98	 R2 Tank ID No. 4	 Holes? ? Odors? Slight
RU-10	6,000	6/80? 08/86 05/89 08/91 01/92 03/92 07/97 08/98	Diesel Diesel Diesel Diesel Diesel Diesel Diesel Diesel	 Removed	1960s	 05/98	 R2 Tank ID No. 6	 Holes? No Odors? Strong
RU-11	6,000	08/86 05/89 08/91 01/92 03/92 07/97 08/98	Diesel Diesel Diesel Diesel Diesel Diesel Diesel	 Removed	1960s	 05/98	 R2 Tank ID No. 7	 Holes? No Odors? Strong
RU-12	6,000	01/92 08/91 03/92 07/97 08/98	Diesel Diesel Diesel Diesel Diesel	 Removed	1960s	 05/98	 R2 Tank ID No. 8	 Holes? No Odors? Strong
RU-13	6,000	08/91 03/92 07/97 08/98	Diesel Diesel Diesel Diesel	 Removed	1960s	 05/98	 R2 Tank ID No. 9	 Holes? No Odors? Strong
Existing ASTs								
A-5	10,000	11/93 05/01	30W Oil Diesel	 Active Use	?			
A-6	10,000	11/93 05/01	Empty Red-Dye Diesel	 Active Use	?			

Table 1: El Capitan [redacted] Co. - Current and Past Dies[redacted] Tank Information

Tank Designation	Size	Date	Contents	Status	Installation Date	Removal Date	Removal Group	Comments
A-12	6,700	08/81	Stove Oil		?			
		11/93	Kerosene					
		04/98	Red-Dye Diesel					
		05/01	Red-Dye Diesel	Active Use				
A-13	3,400	08/81	Stove Oil		?			
		11/93	Empty					
		04/98	Diesel					
		05/01	Diesel	Active Use				
A-14	6,700	08/81	Diesel		?			
		11/93	Empty					
		04/98	Diesel					
		05/01	Diesel					

ATTACHMENT A

Dave Felix email Memo

Memo to: Mike Gibbs – EnecoTech
From: David Felix – SD County DEH
May 22, 2003
By E-Mail

SUBJECT: Comments on Site Assessment Report Dated March 7, 2003

The EnecoTech report of March 7 presents the results of the Phase I assessment that was described in the Work Plan dated August 22, 2002. I expect you to proceed with Phase 2 of the work plan and install permanent monitoring wells. As noted in the work plan, these wells will serve as monitoring points and will be used to gather data to evaluate various remediation alternatives.

As I noted in my Work Plan Approval letter of September 3, 2002, cleanup will be required at this site. The cleanup goal is to eliminate environmental and human health risk. This is typically done by cleaning the soil "source" area to a level which allows the groundwater plume to "contract" under the influence of natural attenuation. Additional cleanup, or temporary engineering controls, may be necessary if excess human cancer risk is shown to be greater than 10E-6.

Although gasoline and diesel are found in soil and groundwater, cleanup will be driven by the need to reduce volatile gasoline constituents (benzene and MTBE).

Data in the March 7 report indicates that the four-compartment tank on the northeast side of the site has had a release. The high MTBE to benzene ratio in groundwater near this tank indicates a probable vapor release. I intend to open a new release case for this four-compartment tank.

cc: Linda Wigington (mail)

Michael Gibbs

From: Felix, David [David.Felix@sdcounty.ca.gov]
Sent: Wednesday, May 21, 2003 3:55 PM
To: 'Mikegibbs@enecotech.com'
Cc: 'ADV-ENV@cox.net'
Subject: Comments on El Capitan Work



El Cap Memo.doc

ATTACHMENT B

Documented UST Problems

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☑ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☑ NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFTY CODE.
SIGNED _____ DATE _____

REPORT DATE: 04/18/88 CASE #: T0948 ~~H20497~~ H1946

REPORTED BY
NAME OF INDIVIDUAL FILING REPORT: Dennis F. Fransway
PHONE: (619) 562-3152
SIGNATURE: Dennis F. Fransway
REPRESENTING: ☑ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER _____
COMPANY OR AGENCY NAME: (Buy Wright Oil Co). Wright Comp.
ADDRESS: 8685 N. Magnolia Suite H CITY Santee STATE CA ZIP 92071

RESPONSIBLE PARTY
NAME: SEE LETTER REC 8/31/88 ☑ UNKNOWN
CONTACT PERSON:
PHONE: ( )
ADDRESS: STREET CITY STATE ZIP

SITE LOCATION
FACILITY NAME (IF APPLICABLE): Buy Wright Oil
OPERATOR: Same
PHONE: (619) 448-5891
ADDRESS: 11427 Woodside Av. CITY Santee COUNTY San Diego ZIP 92071
CROSS STREET: N/A
TYPE OF AREA: ☑ COMMERCIAL ☐ INDUSTRIAL ☐ RURAL ☐ RESIDENTIAL ☐ OTHER _____
TYPE OF BUSINESS: ☑ RETAIL FUEL STATION ☐ FARM ☐ OTHER _____

IMPLEMENTING AGENCIES
LOCAL AGENCY / AGENCY NAME: City of San Diego - Health Dept. HMMU
CONTACT PERSON: David Felix
PHONE: (619) 236-2222
REGIONAL BOARD: S.C. Water Resources Cont Brd
PHONE: ( ) -

SUBSTANCES INVOLVED
(1) NAME: See Comments Below
QUANTITY LOST (GALLONS): _____ ☑ UNKNOWN
(2) _____ ☑ UNKNOWN

DISCOVERY/ABATEMENT
DATE DISCOVERED: 03/18/88
HOW DISCOVERED: ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☐ TANK REMOVAL ☑ OTHER APCD Files
DATE DISCHARGE BEGAN: ☑ UNKNOWN
HAS DISCHARGE BEEN STOPPED? ☑ YES ☐ NO IF YES, DATE
METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☐ REPLACE TANK ☐ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE ☑ OTHER Tanks Not In USE.

SOURCE/CAUSE
SOURCE OF DISCHARGE: ☐ TANK LEAK ☑ UNKNOWN ☐ PIPING LEAK ☐ OTHER
TANKS ONLY/CAPACITY: 5K & 1K GAL. AGE _____ YRS ☑ UNKNOWN
MATERIAL: ☐ FIBERGLASS ☑ STEEL ☐ OTHER _____
CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ CORROSION ☑ UNKNOWN ☐ SPILL ☐ OTHER _____

CASE TYPE
CHECK ONE ONLY: ☑ UNDETERMINED ☐ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS
CHECK ONE ONLY: ☑ SITE INVESTIGATION IN PROGRESS (DEFINING EXTENT OF PROBLEM) ☐ CLEANUP IN PROGRESS ☐ SIGNED OFF (CLEANUP COMPLETED OR UNNECESSARY) ☐ NO ACTION TAKEN ☐ POST CLEANUP MONITORING IN PROGRESS ☐ NO FUNDS AVAILABLE TO PROCEED ☐ EVALUATING CLEANUP ALTERNATIVES

REMEDIAL ACTION
CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ CAP SITE (CD) ☐ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT)
☐ CONTAINMENT BARRIER (CB) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS)
☐ TREATMENT AT HOOKUP (HU) ☐ NO ACTION REQUIRED (NA) ☐ OTHER (OT) _____

COMMENTS
Two Abandoned Tanks Discovered & Verified on 3-18-88
Site Investigation beginning to test for soil &/or groundwater contamination. Property is being purchased.

HSC 05 (4/87)

EST. # H14-69 HD
P.C. # NT0974

HAZARDOUS MATERIALS MANAGEMENT UNIT
ABANDONED UNDERGROUND TANK REPORT

[X] YES FIRE AGENCY [ ] NO

FIRE AGENCY PERMIT # Santee

JURISDICTION

PHONE

C.G.I.

OF TANKS TO BE ABANDONED 4

SITE NAME/ADDRESS Bay Wright Oil 11427 Woodside Santee ZIP 92071 PHONE 448-5564

CONTRACTOR Owner/operator PHONE

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
1. Tank ID #	T-11	T20	T23	T19	
2. U/L #					
3. Capacity (Gallons)	2000	550	880	500	
4. Material Stored	gas	gas	Diesel	Diesel	
5. Decontamination:	yes	yes	yes	yes	
Manifest Available?	yes	yes	yes	yes	
6. Tank Inerting: (CGIRDS)	3%	0	0	0	
Dry Ice/Nitrogen (Qty)	50 lbs	20 lbs	25 lbs	20 lbs	
7. Tank Condition (Holes)	No	yes	No	N/A	
8. Condition of Back Fill & Type	Sand	Sand	Sand	Sand	
9. Condition of Native Soil/Type	Sandy/Clay	Sandy/Clay	Sandy/Clay	Sandy/Clay	
10. Odors From Excavation?	yes	yes	yes	yes	
11. Ponded Product?	No	No	No	No	
12. Ground Water Contamination	?	?	?	?	
13. Tank Closure in Place	No	No	No	No	
14. Pipeline Leak Evident?	possible	No	yes	possible	
15. Reinspection Required?	No	No	No	No	
16. Reinspection Receipt Available?	N/A	N/A	N/A	N/A	

REMARKS: Manifest No. 87181334 Transported to Vern Ivey Clean... To Demonstrated 300 gal for tanks #4) Discolor... Soil in area where piping entered hole. #2) Soil Discolored ... bottom of tank #3) Soil discolored ... tank - No Holes, possible pipeline leak. #4) Soil discolored under fill spout of tank. Ground water approx. 30 ft. Deep. D...

NOTICE: You are hereby notified that on Wednesday, May 25 1988, Dick Thurlow, Hazardous Materials Specialist of County Department of Health Services, conducted an inspection for the removal and/or abandonment of 4 (four) underground storage tanks of hazardous substances. A summary of conditions found is noted as follows:

[ ] No indication of soil or groundwater contamination apparent this date. Excavation may be backfilled.

[X] The conditions noted below must be reported and corrected in accordance with Chapters 6.5 and 6.7 of the California Health and Safety Code and Chapters 9 and 10 of the San Diego County Code.

[ ] Hazardous substance/waste is ponded in the excavation. Immediately take steps to remove the ponded hazardous liquid from the excavation. This liquid is a hazardous waste that shall be properly transported, under manifest, by a licensed hazardous waste hauler to a licensed recycling or disposal facility.

[X] Contaminated soil and/or contaminated groundwater is suspected in the excavation. Determining the extent and impact of this contamination and completing any required clean-up is the responsibility of the tank owner/operator. Within 5 work days, the tank owner/operator or his agent must submit a written UNAUTHORIZED RELEASE REPORT to the Department of Health Services including all of the following information that is known at the time of filing the report:

a. Describe the type, quantity and concentration of the hazardous substance released.
b. Provide the results of all investigations completed at this time to determine the extent of soil, groundwater, or surface water contamination due to the release.
c. Describe the method of cleanup implemented to date, proposed cleanup actions, and approximate costs of actions taken to date.
d. Indicate the method and location of disposal of the released hazardous substance and any contaminated soils or groundwater or surface water. (If any contaminated soil/water is hauled off-site, include copies of the hazard waste manifests).
e. Include the tank operator's name and telephone number, the name and telephone number of any consultants retained, and a projection of proposed activity schedule.

Subsequent mitigation actions will be discussed upon review of the submitted Report and consultation with other appropriate agencies.

- REFER TO REVERSE SIDE FOR ADDITIONAL INFORMATION/REQUIREMENTS -

Received by Vernon F. Ivey Richard Thurlow
Hazardous Materials Specialist Signature

Phone # 619-562-3152

County of San Diego
Department of Health Services
HMMU - 1700 Pacific Highway
San Diego, CA 92101-2489
(619) 236-2222

DHS:HM-9160 (11/86)

2693

SITE ASSESSMENT AND MITIGATION DIVISION

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT

ESTABLISHMENT NO. H19469 PLAN CHECK NO. NT1976

SITE NAME El Capitan #1 PHONE

SITE ADDRESS 11427 Woodside Ave. CITY Santee ZIP 92071

CONTRACTOR YTB PHONE 579-3604

Number of tanks to be removed: 1 2 3 4 5 6 7 8 ___

Decontamination by NA

Manifest No.

Tank rinsate/(amount & destination)

FIRE AGENCY PRESENT YES (NO)

Dept.

Permit No.

Inspector

Tank ID No.					REMARKS
Capacity					
Tank Construction					
Materials stored	Gasoline	Diesel			Piping Removal Only
% L.E.L.	NA				
Dry ice/other (amt.)	NA				
Tank condition	NA				
Backfill soil type	Sandy silt				
Backfill condition	OK				
Native soil type	Sand				
Native condition	OK				
Excavation odors?	Slight				
Stockpile odors?	Slight				
Water present?	NO				
Ponded product?	NO				
Piping removed?	Yes				

REINSPECTION REQUIRED YES (NO) If yes, explain

NOTICE: You are hereby notified that on 10/7/97, a Hazardous Materials Specialist conducted an inspection for the closure of Piping hazardous substance underground storage tank(s). A summary of the conditions follows:

☐ An **unauthorized release** of a hazardous substance has been observed by the Hazardous Materials Specialist. You are hereby required to initiate **Corrective Action** measures (see Page 4 for details).

☐ A determination of this site's status is pending the Site Assessment and Mitigation (SAM) Division's receipt and review of analytical results for the samples taken from the tank and/or piping closure site. A laboratory report must be submitted to SAM within 30 days. Please request that the laboratory send a copy of the analytical report directly to Mary Peters at the address provided below.

SAM Division has completed its review of the analytical results for samples collected at the tank closure site and has determined the following:

☐ TANK CLOSURE COMPLETE - NO FURTHER ACTION REQUIRED

☒ INITIATE CORRECTIVE ACTION MEASURES (See enclosed information)

Approved by: MIKE GERNETZKY Date Reviewed: 11/3/97 Supervisor (Initial): MGG

RECEIVED BY

PRINTED NAME MARK KUNZE

PHONE NUMBER (619) 579-3604

Mary Peters

Hazardous Materials Specialist
SAM - P.O. Box 85261
San Diego, CA 92186-5261 (619) 338-2222

DISTRIBUTION: WHITE-RETURN TO SAM

Teg

Att #9

GTB COMPANY PROJECT #19469-NT1976
EL CAPITAN OIL
11427 WOODSIDE AVENUE
SAN DIEGO, CA

TEG Project #971007-10

TPH (DOHS EPA Method 8015 Modified) ANALYSES OF SOILS

SAMPLE NUMBER	DATE ANALYZED	TPH-GAS C5-C11 (mg/kg)	TPH-DIESEL C12-C24 (mg/kg)
METHOD BLANK	10/10/97	ND	ND
P-1	10/10/97	18	5,537
P-1 DUP	10/10/97	43	9,799
P-2	10/10/97	175	21,218
P-3	10/10/97	ND	ND
P-4	10/10/97	30	9,584
P-5	10/10/97	65	3,025
P-6	10/10/97	136	6,624
P-7	10/10/97	467	13,372
P-8	10/10/97	2,279	10,632
P-9	10/10/97	3,043	5,759
P-10	10/10/97	224	115,444
DETECTION LIMITS		10	10

ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1839)
ANALYSES PERFORMED BY: MS. SHERI HARTMAN
DATA REVIEWED BY: Sheri Hartman
10-20-97

2C19

SITE ASSESSMENT AND MITIGATION DIVISION

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT

ESTABLISHMENT NO. H19469 PLAN CHECK NO. AT4031

SITE NAME El Capitan Oil PHONE

SITE ADDRESS 11427 Woodside Ave. CITY Santee, CA ZIP 92071

CONTRACTOR South Bay Environmental Services PHONE (619)238-8338

Number of tanks to be removed 1 2 3 4 5 6 7 8 (9)

Decontamination by South Bay Sandblasting+Tank Cleaning

Manifest No. To be provided via facsimile

Tank rinsate/(amount & destination) 1800 gallons to DeMenno Kerdoon Compton, CA

FIRE AGENCY PRESENT (YES) NO

Dept. City of Santee

Permit No. 98-057

Inspector Phil Davis

Tank ID No.	#2	#1	4	3	5	REMARKS
Capacity (gallon)	7500	7500	2500	550	550	(A) moderate corrosion;
Tank Construction	~~steel~~ diesel	steel	steel	steel →		no holes observed
Materials stored	~~diesel~~ steel	gasoline	gasoline	waste oil		(B) Petroleum hydrocarbon
% L.E.L.	0%	0%		0%	0%	odors & staining
Dry ice/other (amt.) (lbs)	150 lbs.	150 lbs		15	15	(C) some pitting
Tank condition	(A)	(A)(C)		(D)	(A)	(D) Two holes observed; one
Backfill soil type	sand	sand	→	→	→	on bottom (1/4") + one on top (1/4")
Backfill condition	(B)	(B)	→	→	→	Tank had a smaller 1" x 2.5"
Native soil type	sand	sand	→	→	→	tank on bottom near end.
Native condition	(B)(F)	(B)(F)	(F)	(B)	(B)	(E) Product piping appears
Excavation odors? pet. HC	slight	slight	→	→	→	to have been removed
Stockpile odors? pet. HC	slight	slight	→	→	→	previously (NT1976 10/97)
Water present?	no	no	→	→	→	(F) some areas of native soil
Ponded product?	no	no	→	→	→	revealed no staining w/slight odor
Piping removed?	yes (E)	yes (E)	yes	yes	yes	

REINSPECTION REQUIRED YES (NO) If yes, explain

NOTICE: You are hereby notified that on 4/29/98, a Hazardous Materials Specialist conducted an inspection for the closure of nine (9) hazardous substance underground storage tank(s). A summary of the conditions follows:
(see attached closure report for add'l 4 USTs.

☐ An **unauthorized release** of a hazardous substance has been observed by the Hazardous Materials Specialist. You are hereby required to initiate **Corrective Action** measures (see Page 4 for details).

☒ A determination of this site's status is pending the Site Assessment and Mitigation (SAM) Division's receipt and review of analytical results for the samples taken from the tank and/or piping closure site. A laboratory report must be submitted to SAM within 30 days. Please request that the laboratory send a copy of the analytical report directly to Pamela Villa Clay at the address provided below.

SAM Division has completed its review of the analytical results for samples collected at the tank closure site and has determined the following:

☐ TANK CLOSURE COMPLETE - NO FURTHER ACTION REQUIRED

☒ INITIATE CORRECTIVE ACTION MEASURES (See enclosed information)

Approved by Pamela Villa Clay Date Reviewed 5/11/98 Supervisor Initial

RECEIVED BY Steve Haggerty

PRINTED NAME Steve Haggerty

PHONE NUMBER 619 238 8338

Pamela Villa Clay

Hazardous Materials Specialist
SAM P.O. Box 129261
San Diego, CA 92112-9261 (619) 338-2222

DISTRIBUTION: WHITE-RETURN TO SAM

2 CLO

SITE ASSESSMENT AND MITIGATION DIVISION

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT

page 2 of 2

ESTABLISHMENT NO. H194669 PLAN CHECK NO. AT4031

SITE NAME El Capitan Oil PHONE

SITE ADDRESS 11427 Woodside Ave. CITY Santee, CA ZIP 92071

CONTRACTOR SouthBay Environmental Services PHONE (619) 238-8338

Number of tanks to be removed 1 2 3 4 5 6 7 8 (9)

Decontamination by South Bay sandblasting + Tank Cleaning

Manifest No. To be provided

Tank rinsate/(amount & destination) 1800 gallons - D/K

FIRE AGENCY PRESENT (YES) NO

Dept. City of Santee

Permit No. 98-057

Inspector P. Davis

Tank ID No.	6	7	8	9	REMARKS
Capacity	6000	6000	6000	6000	see comments
Tank Construction	steel	steel	steel	steel	(A) (B) (C) (D) (E) (F)
Materials stored	diesel	diesel	diesel	diesel/kerosene	described on
% L.E.L.	0%	0%	0%	0%	page 1 of 2.
Dry ice/other (amt.)	90 lbs →				
Tank condition	(A)	(A)	(A)	(A)	(G) Strong petroleum
Backfill soil type	sand →				HC odors.
Backfill condition	(B) (G) →				
Native soil type	sand w/	some red clay →			Note: very sandy soil
Native condition	(B) (F) →				and caving in and
Excavation odors?	slight →				ground perimeter of
Stockpile odors?	slight →				excavation. Excavation
Water present?	no →				to be backfilled to
Ponded product?	no →				approx. 2 ft. bgs and/or
Piping removed?	yes	yes	yes	yes	wrapped w/ K-rail.

REINSPECTION REQUIRED YES (NO) If yes, explain

NOTICE: You are hereby notified that on 4/29/98, a Hazardous Materials Specialist conducted an inspection for the closure of nine (9) hazardous substance underground storage tank(s). A summary of the conditions follows:
(see page 1 of 2 for previous 5 USTs)

☐ An **unauthorized release** of a hazardous substance has been observed by the Hazardous Materials Specialist. You are hereby required to initiate **Corrective Action** measures (see Page 4 for details).

☒ A determination of this site's status is pending the Site Assessment and Mitigation (SAM) Division's receipt and review of analytical results for the samples taken from the tank and/or piping closure site. A laboratory report must be submitted to SAM within 30 days. Please request that the laboratory send a copy of the analytical report directly to Pamela Villa Clay at the address provided below.

SAM Division has completed its review of the analytical results for samples collected at the tank closure site and has determined the following:

☒ TANK CLOSURE COMPLETE - NO FURTHER ACTION REQUIRED

☐ ~~INITIATE~~ CORRECTIVE ACTION MEASURES (See enclosed information)

Approved by: [signature] Date Reviewed: 5/11/98 Supervisor (initial) [initial]

RECEIVED BY [signature]

PRINTED NAME Steve Haggerty

PHONE NUMBER 238 8338

[signature]
Hazardous Materials Specialist
SAM - P.O. Box 129261
San Diego, CA 92112-9261 (619) 338-2222

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ATT #13

MOBILE ONE LABORATORIES INC.

Report Summary

Client: South Bay Environmental Services
Project: El Capitan Oil
Matrix: soil

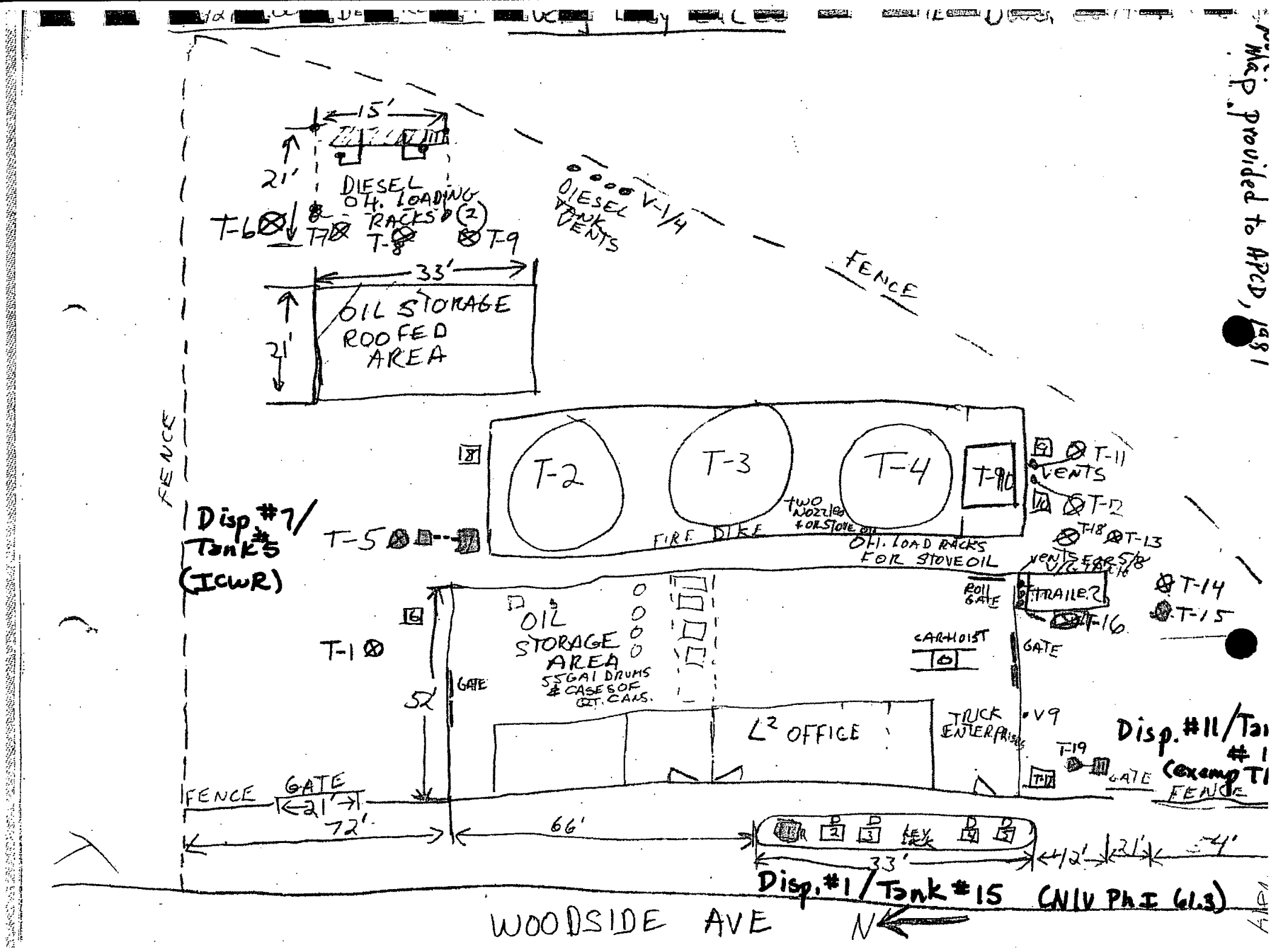
Method	TPH gasoline	TPH diesel	TRPH	MTBE **	Benzene	Toluene	Ethyl-benzene	Xylenes
Detection Limit (mg/kg)	10	10	10	0.1	0.05	0.05	0.05	0.15
SAMPLE I.D.								
Date Analyzed: 04/29/98								
T1-1-15.5'	nd	nd						
T1-2-15'	400&	2,000#		3.7**	0.12	0.95	11	64
T2-1-14'	nd	11#						
T2-2-16'	nd	nd						
T3-6.4'			4,300					
T4-10'	820&	nd						
T5-E-6.3'			260					
T5-W-6'			5,900					
T6-E-16'	nd	1,100						
T6-W-16.5'	nd	1,800						
T7-E-16'	nd	800						
T7-W-16'	nd	23,000						
T8-E-16'	nd	25						
T8-W-16'	nd	1,900						
T9-E-15.5'	nd	30						
T9-W-17'	nd	4,200						
P1-4.0'	nd	370#						

Method	TPH gasoline	TPH diesel	TPH C_{25}-C_{44}	TRPH	Benzene	Toluene	Ethyl-benzene	Xylenes
Detection Limit (mg/kg)	10	10	10	10	0.05	0.05	0.05	0.15
T3-9.5'	220&	1200#	190	1,900				

nd = not found above the detection limit
& = gasoline range organics (C_6-C_{12}) not identified as gasoline
# = diesel range organics (C_{13}-C_{24}) not identified as diesel
* = sample dilution was required. Detection limits were adjusted accordingly.
** = This compound has been screened by EPA method 8020. Any positive results should be confirmed by a second analysis.
= A second analysis has been performed on this sample by Mass Spectrometry. The results are as indicated.
Analyses performed by: Bret Hutchinson

SB3

48 SO. VINEWOOD STREET • ESCONDIDO, CA 92029 • PHONE (760) 735-3208 • FAX (760) 735-2469


15'
21'
DIESEL OH. LOADING RACKS (2)
T-6
T-7
T-8
T-9
DIESEL TANK VENTS
V-1/4
FENCE
33'
21'
OIL STORAGE ROOFED AREA
FENCE
T-2
T-3
T-4
T-10
T-11 VENTS
T-12
T-18
T-13
VENTS FOR 5/8
Disp. #7/ Tank #5 (ICWR)
T-5
FIRE DIKE
TWO NOZZLES FOR STOVE OIL
OH. LOAD RACKS FOR STOVE OIL
ROLL GATE
TRAILER
T-16
T-14
T-15
T-1
OIL STORAGE AREA
55 GAL DRUMS & CASE OF QT. CANS.
CAR HOIST
GATE
GATE
52'
L² OFFICE
TRUCK ENTERPRISES
V9
T-19
Disp. #11/Tank #1 (exempt TI
FENCE
GATE
21'
72'
66'
33'
12'
21'
4'
Disp. #1/Tank #15 (NIV Ph I (6.3)
WOODSIDE AVE
N

LEGEND

DISPENSERS

- ▣-1 = DISPENSER 1 REGULAR GASOLINE
- □-2 THRU 5 - DISPENSER 2-5 ; DIESEL FUEL
- □-6 KEROSENE
- ▣-7 DISP#7 TRICK GAS
- □-8 DISP#8 DISCONNECTED (NOT ATTACHED TO ANYTHING)
- □-9 DISP#9 WEED OIL
- □-10 DISP#10 SOLUENT
- ▣-11 DISP#11 UNLEADED SUPREME.

TANKS

- ⊗ T-1 4/6 KEROSENE; 550 GALLONS; SERVES DISPENSER #6
- ○ T-2 A/G DIESEL #2; 6700 GALLONS SERVES DISP-2-5
- ○ T-3 A/G STOVE OIL; 3400 GALLONS HAVE OVERHEAD LOADING RACK + 1 NOZZLE
- ○ T-4 A/G STOVE OIL; 6700 GALLONS ↓ ↓
- ⊗ T-5 U/G TRICK GAS; 2000 GAL; SERVES DISP # 7
- ⊗ T-6 U/G DIESEL #2; 6000 GAL; SERVE O.H. LOADING RACK
- ⊗ T-7 U/G ✓ ; ✓ ; MANIFOLDED 2 & 2
- ⊗ T-8 U/G ✓ ; ✓ ; ✓ ✓
- ⊗ T-9 U/G ✓ ; ✓ ; ✓ ✓
- □ T-10 A/G CLEANING SOLVENT; 500 GAL; HAS OWN HOSE, NOZZLE
- ⊗ T-11 U/G WEED [illegible]; Serves Disp #9
- ⊗ T-12 U/G SOLVENT [illegible]; Serves Disp #10

VENTS

- V 1/4 Vents for Diesel OH Rack Tanks. 2" I.D X ≥ 12' ok
- V 5/8 VENTS FOR TANKS 13/14/15
- V 1/2 Vent for tank #12? 11'11 DIA X 5' ABOVE GRADE

TANKS CTD

T-13 U/G 7500 GAL; DIESEL MANIFOLDED W TANK #2

T-14 U/G 5000 GAL; NOT USED & LEAKS.

T-15 U/G 7500 GAL; REGULAR GASOLINE SERVES DISP #1
NO DRY BREAK

T-16 U/G UNKNOWN USE, NOT BEING USED, STEPS TO TRAILER COVER PIT LID.

T-17 A/G 1500 GALS; KEROSENE, SOLVENT & OIL 3 COMPART. 500 GAL EA.

T-18 U/G 500 GAL WASTE OIL TANK

T-19 U/G 550 GAL; UNLEADED GASOLINE, SERVES DISP #11

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COMPREHENSIVE SITE ASSESSMENT
Wigington Petroleum
11427 Woodside Avenue
Santee, California 92071
H19469-001/T0948/APN 382-320-06

Prepared for:

Ms. Linda Wigington
WIGINGTON PETROLEUM, INC.
2027 Paraiso Avenue
Spring Valley, California 91977

Cc: Mr. David Felix - SAM

Prepared by:

ENECOTECH SOUTHWEST, INC.
6160 Fairmount Avenue, Suite A
San Diego, California 92120

Project No. 1686-001 (BG015)
March 7, 2003

Edward Kontos
Staff Scientist

Michael J. Gibbs, RG 4821
Senior Geologist

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EXECUTIVE SUMMARY

El Capitan Petroleum Company is located on a 1.15-acre, triangular-shaped parcel in Santee, California. The property is developed as a fueling and petroleum product sales facility, which has had 18 USTs, 19 ASTs, product dispensers, and packaged petroleum products. Fuels, lubricants, solvents, racing fuel, propane, and kerosene are dispensed from USTs and ASTs or sold in containers.

Background Information

Previous work performed began when an Unauthorized Release Report, dated April 18, 1988, was submitted after 4 USTs were removed and soil samples indicated soil impact by petroleum hydrocarbons including benzene. Since then, soil impact has been found to exist over much of the site as USTs and product piping have been removed and assessment borings placed. Over time, groundwater impact has also increased dramatically in extent and concentrations in monitoring wells. Free product had been identified in four monitoring wells.

The site is located in a hydrologic unit identified as having existing beneficial uses of groundwater for municipal, agricultural, and industrial purposes. The unconsolidated aquifer associated with the San Diego River Valley is utilized for limited domestic, agricultural, and industrial demands. The only drinking water/industrial well identified within 2,250 feet of the site is approximately 0.2-mile up gradient of the subject site. Surface water in the area also has existing beneficial use for industrial purposes and potential use for municipal purposes. The San Diego River is located approximately 850 feet northwest of the site.

Historically, USTs onsite have stored various grades of gasoline, diesel, kerosene, waste oil, weed oil, and solvent (mineral spirits). There have been three events of UST and/or product piping removal. Releases identified by soil samples taken (up to 3,043 mg/kg gasoline and 115,444 mg/kg diesel) at the time of removal and by observations made by regulatory personnel of holes and product piping leaks were for USTs that mainly held gasoline and diesel.

Historically, ASTs onsite have stored various grades of diesel, kerosene, solvent (mineral spirits), fresh motor oil, fresh hydraulic fluid, stove oil, propane, and racing gasoline kept for a short period in two Convault-type tanks with no associated product piping. The ASTs have had product piping limited to the eastern third of the site and the northeast side of the main building. No AST (except the two small Convault-type tanks with no associated product piping) has ever held gasoline onsite. Also, no field report of any release from an AST or associated product piping was found.

Current Assessment

The latest assessment of 18 borings and temporary wells found soil benzene impact up to 20 mg/kg in the southwestern portion of the property, MTBE of up to 1.4 mg/kg in the same general area, and TPHg and TPHd concentrations up to 11,000 mg/kg and 24,000 mg/kg, respectively, extending from the western half of the site and across Highway 67 to beyond Woodside Avenue North. The soil impact is predominately confined to a relatively thin vertical horizon in the subsurface just at or just below the current groundwater level.

Historical depths to groundwater have ranged from 27 to 32 feet bgs. The indicated direction of groundwater flow is southwest. Free product gasoline was recently present in 4 temporary wells and 3 monitoring wells. Benzene concentrations in groundwater of at least 100 µg/l and up to 13,000 µg/l constitute a plume that extends across the western half of the site then approximately 140 feet offsite. The MTBE plume, with concentrations of up to 1,700 µg/l, extends much like the benzene plume except that it is narrower and extends further. A separate MTBE plume, with concentrations of up to 2,600 µg/l, is located along the mid-northeast property line. TPHg and TPHd concentrations of at least 1,000 µg/l and up to 2,100,000 µg/l extend virtually across the entire site, then approximately 130 feet offsite across Highway 67 and past Woodside Avenue North. Groundwater impact has migrated offsite and has not been fully delineated southwest or west of the site, but extends beyond Woodside Avenue North and within 550 feet up gradient of the San Diego River. It is not known if the impacted groundwater plume has impacted the San Diego River. If it does, the plume could impact plant and animal life associated with the river's ecosystem.

The chromatograph data indicates mainly diesel and gasoline contaminants. The site has significant impact to both soil and groundwater. The impact to both also extends offsite. The main contaminants of concern are benzene and MTBE; however, high levels of other gasoline constituents and diesel also exist. The primary Maximum Contaminant Level (MCL) for benzene is exceeded in each monitoring well.

Based on conversations with SAM, the constituents of greatest concern are benzene and MTBE, which are both constituents of gasoline. The highest concentrations of benzene, MTBE, and TPHg impact in the soil are centered in the southwestern and southern portions of the site. These areas coincide with USTs and their associated product piping that formally existed and which, for the most part, provided evidence of leakage when removed. The source of this impact is from USTs, in that ASTs (with the exception of two Convault-type tanks for a short interval) have not held gasoline onsite. All the data indicates that the removed USTs and their associated product piping are the source of this impact. There is no reliable evidence of an AST release taking place. All the impact onsite could have conceivably come from USTs only. The highest concentrations of TPHd impact in the soil are centered in the middle-southern portion of the site. This area coincides with USTs and their associated product piping that formerly existed and which, for the most part, provided evidence of leakage when removed. All the data indicates that the removed USTs and their associated product piping are the source of this impact. Concentrations of all of these constituents in groundwater appear to predominately emanate from the soil sources identified.

Free product onsite also appears to be the result of UST or associated product piping releases, with the product in B3, B4, and B17 apparently attributed to the 6 USTs located in that area and possibly the product piping of the 4 diesel USTs that were located in the rear of the property. The product in B13 and MW4 appears to be attributable to the front dispensers or product piping. The only known possible source for the product in MW2 is the new 4-compartment tank and associated product piping which delivers gasoline to the dispensers in the back of the site.

Any remediation attempt would not be successful without dealing with the sources, therefore groundwater impact needs to be remediated in concert with soil source reduction. EnecoTech envisions a remediation system consisting of active vapor extraction, air sparging of the groundwater, and groundwater extraction. EnecoTech recommends the following: complete Phase 2; conduct a vapor extraction pilot test; design a remediation system and submit a RAP; obtain Fund pre-approval, permits, and install, start up, and operate a remediation system.

1.0 INTRODUCTION

EnecoTech Southwest, Inc. (EnecoTech) is pleased to present this report detailing site assessment activities performed at the subject site located at 11427 Woodside Avenue, Santee, California (Figure 1a). EnecoTech has been retained by Wigington Petroleum, Inc. (Client) to provide environmental consulting services for the subject site. Services have consisted of: 1) meeting with the County of San Diego, Department of Environmental Health (DEH), Site Assessment and Mitigation Division (SAM) and developing a work plan; 2) conducting research regarding the site history, tank and product piping information, wells nearby, nearby property uses, and attempting to obtain permission to access adjacent properties to place borings; 3) obtaining permits; 4) obtaining UST Fund pre-approval; 5) placing twenty soil borings/temporary wells on and offsite and retrieving soil and groundwater samples; and, 6) preparing this comprehensive report containing the results of previous and this most recent investigations. The purpose of the site assessment activities was to attempt to delineate soil and groundwater impact both on and offsite, evaluate sources of release, evaluate risks, and gather the information necessary to develop a remediation strategy. These activities were performed based on correspondence with the County of San Diego, Site Assessment and Mitigation (SAM).

2.0 BACKGROUND/HISTORY AND PREVIOUS CHARACTERIZATION

2.1 General

The facility is located on a triangular-shaped parcel (Figure 2), approximately 1.15 acres in size, and located at 11427 Woodside Avenue in the City of Santee, California. Associated SAM identification numbers are H19469-001/T0948/APN 382-320-06. The entire property is developed as a fueling and petroleum product sales facility operating as El Capitan Oil Company. The site has or has had 18 underground storage tanks (USTs), 19 above ground storage tanks (ASTs), product dispensers, and packaged petroleum products. The facility serves vehicles from heavy equipment to cars with gasoline and diesel fuel from both card-lock and attendant-controlled dispensers. Most of the dispensers are located either in a single row in the front portion of the site or in 3 rows in the rear portion of the site. The rear dispensers appear to be card-lock only. In addition, petroleum products such as lubricants, solvents, racing fuel, propane, and kerosene are sold in containers or dispensed from ASTs and USTs.

Property Owner:	UST Owner/Operator:
Wigington Petroleum, Inc.	El Capitan Oil Company
2027 Paraiso Avenue	11427 Woodside Avenue
Spring Valley, CA 91977	Santee, California 92071
Attn: Linda Wigington	Attn: Sam Attisha

From the review of SAM files and other sources, the subject site has apparently had a number of business names since it was originally constructed including El Capitan Oil Company (pre-1978), Lucky Lady Oil Co. (1978 to 1981), RAM Oil Company (1981 to 1987), Buy Wright Oil Company (1987 to 1994; operated by bankruptcy trustee 1989 to 1994), and El Capitan Oil Company again (1994 to present). In most cases, these name changes appear to correspond with change in ownership. In 2002, the business (El Capitan Oil Company) was sold to the current business owner and operator, while Wigington Petroleum, Inc. was the previous business owner and operator. Wigington Petroleum, Inc. is currently the property owner. All the releases onsite appear to have occurred before this recent sale of the business. Future plans for the site are for continued operation as a fueling facility and bulk oil distributorship.

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2.2 Previous Assessments and Site History

1987 Removal of 4 USTs

Wigington Petroleum, Inc. (WP) sold El Capitan Oil Company (ECO) to Buy Wright Oil Company (BWO) in 1987. BWO had four USTs removed in 1988. Soil sample results of up to 1,300 mg/kg total extractable hydrocarbons (TEH) and 65 mg/kg benzene were identified. At that time, an Unauthorized Release was reported. BWO was directed to initiate site assessment in a letter dated March 22, 1988, from the County of San Diego, Hazardous Materials Management Division (HMMD). The Unauthorized Release Report dated April 18, 1988, was submitted to the HMMD.

1988 Site Assessment

EnecoTech's Denver office performed a preliminary site assessment in 1988 when eleven borings/four monitoring wells were placed. Boring soil samples indicated levels of total petroleum hydrocarbons as gasoline (TPHg) up to 440 mg/kg and non-detectable benzene levels. Analysis of groundwater sampled from the monitoring wells resulted in measurable levels of TEH, benzene, toluene, and xylenes. During the course of this investigation, a well was discovered within in the office area in the main building. A thorough search of State Engineer's records and State well permits was conducted, but no as-built or historic information was found at that time. The well is 12 inches in diameter, cement-cased with an initially measured total depth of 35.4 feet, but has since been measured to be at least 70 feet deep. Static water was initially measured at 27.9 feet. An appreciable amount of free-floating product was initially observed in the well. The results of the findings were presented in a report (EnecoTech, 1988). On November 18, 1988, HMMD issued a letter agreeing with the recommendations of the EnecoTech report and establishing cleanup levels for groundwater.

1989 to 1994 Bankruptcy

In 1989, BWO filed bankruptcy, at which time a bankruptcy trustee took control of the property. WP regained control of the property in 1994.

1997 Removal of Product Piping

In October 1997, single-walled product piping was removed. Soil samples retrieved indicated levels of total petroleum hydrocarbons as gasoline (TPHg) levels of up to 3,043 mg/kg and diesel (TPHd) up to 115,444 mg/kg.

March 1998 Groundwater Sampling

In March of 1998, EnecoTech was retained by a third party to aid in an environmental evaluation of the property by a potential buyer. As part of the evaluation, the five wells onsite were sampled and analyzed by Del Mar Analytical. The results indicated elevated concentrations of TPHg, TPHd, benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE). The concentrations of petroleum hydrocarbons, benzene, toluene, and xylenes increased dramatically over the 1988 results. TPHg, TPHd, ethyl benzene and MTBE were analyzed for the first time.

April 1998 Removal of 9 USTs

In April 1998, nine USTs were removed under HMMD permit AT4031. Soil samples collected from eight of the nine tank pits were analyzed by Mobile One Laboratory and had concentrations of up to 840 mg/kg TPHg, 23,000 mg/kg TPHd, 0.12 mg/kg benzene, and 3.7 mg/kg MTBE. WP had groundwater samples from monitoring wells MW1 and MW3 analyzed by Pacific Treatment Analytical in May 28, 1998, for delineation of diesel and gasoline impact. TPHg, TPHd, BTEX, and MTBE were detected in the soil samples.

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1999 to 2000 Site Assessment

WP retained EnecoTech in December 1999 to perform site assessment including soil and groundwater sampling for further delineation of impact at the subject site. EnecoTech's "Work Plan for Environmental Services" dated March 14, 2000, for the purpose of installing two groundwater wells, was submitted to Mr. David Felix of SAM (SAM assumed oversight responsibility of UST assessment and mitigation, formerly the responsibility of the HMMD, in mid-1993). Due to the time lapse since the four monitoring wells had been installed, Mr. Felix requested additional sampling of the four existing groundwater wells at the subject site first to determine the most efficient course of action before approving the work plan. EnecoTech submitted the "Addendum to the Work Plan" dated March 20, 2000, to Mr. Felix that specified tasks for groundwater sampling.

The groundwater sampling event occurred on April 4 and 5, 2000, and the samples were analyzed by Del Mar Analytical. Results of the groundwater sampling continued to indicate elevated levels of TPHg, BTEX, and MTBE in the groundwater. Based on the laboratory results, Mr. Felix directed in his letter dated May 8, 2000, the installation of four additional wells, instead of two, and a groundwater monitoring event after installation of the new wells. EnecoTech responded with "Addendum 2 to the Work Plan for Environmental Services" dated May 26, 2000, explaining that one of the four wells to be installed would have to be delayed since approval of the adjacent property owner had not been attained. The "Addendum 2 to the Work Plan" was approved in the SAM letter dated June 5, 2000, from Mr. Felix.

In February 2002, EnecoTech supervised the installation of two monitoring wells (MW6 and MW7), which were placed approximately 70 feet southwest and 80 feet northeast of MW4, respectively. In April 2002, MW8 was placed across Woodside Avenue in the grassy median adjacent to the southwest shoulder of the CalTrans State Highway 67 right-of-way, approximately 90 feet northwest of MW4. On April 26, 2002, EnecoTech returned to the site to collect groundwater samples from all eight monitoring wells. The findings of the additional site assessment activities are detailed in the "Additional Site Assessment" report prepared by EnecoTech dated June 21, 2002. Results of the soil sampling indicated significant levels of TPHg, benzene, and MTBE in the soil. The laboratory results from soil samples are included as Table 1b. Results of the groundwater sampling continued to indicate high levels of TPHg, benzene, and MTBE. The cumulative laboratory results from groundwater samples retrieved from the monitoring wells are included in Table 3b (TEH, TPHg, TPHd, BTEX, MTBE, and Lead) and Table 3c (oxygenates).

Based on the results of the site assessment activities performed in the spring of 2002, EnecoTech recommended performing additional site assessment activities in an effort to 1) identify the potential source(s) of contamination and 2) delineate soil and groundwater impact both on and offsite. It was expected that the data collected during the site assessment activities could be used to evaluate the most suitable and cost-effective method of remediation for this site. From July 5, 2002, to August 28, 2002, EnecoTech worked with SAM on the details of the scope of work that would attempt to accomplish the above goals. On September 2, 2002, the work plan was approved by SAM. Once UST Fund Pre-approval was obtained, Phase 1 of the work plan was performed, resulting in this report.

UST Fund Status

WP is currently a claimant of the Underground Storage Tank Cleanup Fund (Fund) of the State Water Resources Control Board (SWRCB). WP has received a Letter of Commitment from the Fund. The property owner has received communication from the Fund indicating that eligible costs will only be reimbursed at 50 percent, since there are ASTs onsite. One goal of this report is to provide a basis for a more accurate assessment of probable UST versus AST contribution to the impact associated with the site.

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2.3 Area Geology

The ground surface at the site is gently sloping (and therefore drains) from the southeast triangle point of the property, northwest toward Woodside Avenue. The facility is located on unconsolidated Quaternary colluvial (slope wash) and alluvial deposits. These deposits unconformably overlie Cretaceous Age granitic composition bedrock of the Southern California Batholith (Kennedy and Peterson 1972). The top of the granitic composition bedrock is typically highly weathered to an undetermined depth.

2.4 Area Hydrogeology

The site appears to be located in Unit 7.12, the Santee Hydrologic Sub Area (HSA), as defined by the San Diego Region Basin Plan (San Diego RWQCB, 1994). The Santee HSA is identified as having existing beneficial uses of groundwater for municipal, agricultural, and industrial purposes. Surface water in the area has existing beneficial use for industrial purposes and potential use for municipal purposes. The unconfined, unconsolidated aquifer associated with the San Diego River Valley is utilized for limited domestic, agricultural, and industrial demands. Recharge to the unconsolidated aquifer occurs by direct precipitation and infiltration, run-off infiltration, and from springs and underground recharge from crystalline rocks. The San Diego River is located approximately 850 feet northwest of the site.

3.0 CURRENT INVESTIGATION

3.1 Scope of Work

The scope of work contained in the work plan and approved by SAM that constitutes this current investigation is updated and summarized below along with a summary of the events and problems encountered.

TASK 1: Meeting with SAM and Preparation and Submittal of Work Plan
EnecoTech met briefly on July 5, 2002, with Mr. Felix of SAM. The scope of work from the proposal to the client was provided to Mr. Felix for his informal review in order to speed up the work plan process and be able to provide a work plan that could be approved with minimal conditions. Mr. Felix indicated he thought it best that the proposed scope of work be performed in two smaller phases, instead of one larger one. His remarks were incorporated into the work plan. The work conducted and summarized in this report constitutes Phase 1 of the approved scope of work detailed in the work plan. Phase 2 will be conducted at a later date and will comprise the preparation for and actual placement of permanent monitoring wells, sampling of all monitoring wells, and preparation of a report.

TASK 2: Research *(Reported in Section 3.2 Research)*
Research was needed to plan details of the site assessment activities including: 1) evaluate known risks of impacted groundwater (attempt to find all existing wells in the area and identify use); 2) evaluate potential onsite sources of impact; 3) identify best locations for placement of borings and wells on and offsite; 4) identify offsite locations where conditions and property owners will allow borings and/or wells; 5) identify other actual or potential sources in the area; and, 6) confirm/identify tank and product piping onsite. These were accomplished by performing the following:

Existing Well Research (2,250-foot radius): Conduct a search at the California Department of Water Resources (DWR) web site, submit DWR email manual search request, EDF site search, and SAM inquiries and possibly file review(s).

Tank & Product piping Layout (onsite): Review HMMD/SAM and Air Pollution Control District (APCD) files, review any BWO files readily available, and conduct interviews.

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Property Ownership and Business Use in Area: Visit the County Assessors' office and conduct a file search, perform ortho-topographic map review, MapQuest search, and Polk & Haynes Directory review; and,

Field Well Search (2,250 foot radius) and Contact Adjacent Property Owners: Search the area on both sides of State Highway 67 for existing wells and attempt to ascertain ownership, current use, well completion, and age. Contact adjacent property owners to request permission for site access for boring and/or well placement.

TASK 3: Permits

Obtain well permits for 17 borings from the DEH. EnecoTech was initially also planning to obtain a CalTrans encroachment permit to access the CalTrans Highway 67 right-of-way. This was not successful in that CalTrans does not allow semi-permanent placement of improvements that are accessed at a later date (monitoring wells). EnecoTech was informed that the issuance of the previous permit to install Monitoring Well MW8 was a mistake, and that even MW8 would have to be removed. As an alternative, an encroachment permit from the City of Santee was obtained to place borings/temporary wells in Woodside Avenue and Woodside Avenue North.

TASK 4: Fund Pre-Approval

EnecoTech produced, submitted, and obtained approval a pre-approval for reimbursement from the Fund for Phase 1 and 2 of the site assessment.

TASK 5: Site Assessment Fieldwork *(Reported in Sections 3.3, 3.4, 3.5, and 3.6)*

There were seventeen borings planned. Twenty borings were placed onsite and offsite to better evaluate the current state of soil and groundwater impact and to provide the basis necessary to develop a remedial plan and design a remediation system. They were advanced using a push-type drilling rig to an approximate depth of 35 feet. Soil sample retrieval was based on the vertical extent of soil impact expected, based on boring location in reference to the onsite source. Therefore, more soil samples were taken over a greater vertical range onsite and the number of samples and vertical range decreased as borings were located further away from the source. Soil sample collection was especially targeted above and below the capillary fringe. Soil sample collection was influenced by screening results from a photo ionization detector (PID), with more samples taken in areas where PID readings were significant in value and consistent over a vertical range. Once each boring was completed, a ¾-inch diameter PVC temporary well casing was placed in the boring for less than 24 hours. During the time that the temporary well casing was in place, the depth to water was measured and a one-time groundwater sample was retrieved with a small bailer prior to destroying the boring by filling with bentonite chips. A mobile laboratory was utilized to conduct analysis in the field. The mobile laboratory data were also used to adjust the number and placement of other borings and wells, and adjust sampling intervals.

Borings and temporary wells were logged and field observations were recorded such as discoloration, odor, and PID readings. Soil and groundwater samples in all borings and wells were collected using EnecoTech's standard chain of custody procedures and stored in an ice chest and submitted to a California certified laboratory for analysis. The collected samples were analyzed for full range total petroleum hydrocarbons (TPH) (gasoline through diesel) by EPA Method 8015 and BTEX and MTBE by EPA Method 8021 with samples indicating detectable concentrations confirmed using EPA Method 8260. The analytical soil and groundwater results have been submitted by EnecoTech to the GeoTracker website as required. Site assessment activities were performed and boring logs reviewed under the supervision of a California Registered Geologist. Generated soil was placed in drums and temporarily stored onsite. EnecoTech arranged for the pick-up, transport, and disposal of waste soil and water generated by the field activities.

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TASK 6: Report Preparation

Following completion of field activities, EnecoTech has produced this comprehensive report summarizing all prior site assessments, current activities, and data collection in accordance with the 2002 SAM Manual Site Assessment Report Checklist. Analytical results are presented along with an evaluation of the sample results, conclusions, discussions, and recommendations.

3.2 Research

The results of the research are presented below. The order of presentation has been altered from above to provide a more logical flow of information

3.2.1 Existing Well Research (2,250-foot radius)

DWR web site search – No information was available.

DWR manual search request – A formal request for well records for the area was submitted to the California Department of Water Resources (DWR). DWR provided EnecoTech with copies of more than 50 well records for the area. In order to create a basis for reviewing the records, a 2,250-foot radius was drawn to scale on an enlarged Thomas Bros Map (Figure 1b). All roads identified within this radius were listed (Appendix A, Table A-1) and the records were searched for wells installed along those roads. Individual road address(es) or accompanying map(s) were then evaluated to assess whether the well location was within 2,250 feet of the subject site. Of the many wells identified, only six were found to potentially exist within the 2,250-foot SAM-proscribed radius (Appendix A and Appendix A, Table A-2). These wells were later searched for in the field with the results noted below in 'Field Well Search', below.

EDF site search – GeoTracker no longer lists any well information.

SAM inquiries and possibly file review(s) - One well was noted in the area that was not identified by DWR records. That well was also searched for in the field with the results noted below in 'Field Well Search' and in Appendix A, Table A-3.

3.2.2 Field Well Search (2,250 foot radius)

A search was conducted on both sides of State Highway 67 for existing wells in an attempt to ascertain existence, ownership, current use, well completion, and age. Wells 1, 2, 3, and 4, all owned by Riverview Water District and indicated in Appendix A, Table A-2, were not located or observed. The light industrial complex at and around 11423 Woodside Avenue was searched for Well 5, with special attention to Suite F, but no evidence of a current or past well was observed. An inquiry was also made of an employee that works in the complex that happened to be outdoors, but he knew of no well on the property. The well designated Well 6 is actually one of the four monitoring wells placed onsite in 1988 by EnecoTech. Well 7, as identified in the SAM file, was located and observed as indicated in Appendix A, Table A-3. Well 8 (Appendix A, Table A-4) was not indicated by any source, but was observed in an open field between Highway 67 and Woodside Avenue near Marilla Drive. No details are known about this well except that it is not being used.

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Meeting with Riverview Water District – Although it was not part of the planned scope of work, EnecoTech met with the Riverview Water District (RWD). RWD is a relatively small, special water district serving residential, commercial, and industrial needs in the area. Having not been successful in observing their wells for lack of access (Wells 1, 2, 3, and 4 on Appendix A, Table A-2), EnecoTech met with Jeanne Swaringen, the General Manager, to find out where their wells were located and to discuss their plans for the wells. It was communicated that the four wells are on the north side of, and in a line parallel to, Highway 67. Ms. Swaringen thought that the well farthest west (Well 3) might be within the 2,250-foot search radius. EnecoTech was also told that Wells 1, 2, and 3 had been used to supply part of the district's water, but had been shut down in August of 1999 due to MTBE impact in Well 1 from a retail gasoline station east of the wells in the Lakeside area. Well 4 is a newer well and had never been used. RWD has been receiving assistance from County and State agencies to rectify the impact and plans on restarting use of the wells in approximately April 2003.

All of the wells indicated on Appendix A, Table A-2 that were observed in the field or confirmed to exist have been indicated on Figure 1b. Only Wells 6 and 7 appear to exist within 2,250 feet of the subject site. Well 6 is actually one of the four original monitoring wells installed onsite in 1988. Therefore, Well 7 is the only drinking water/industrial well identified within 2,250 feet of the site. Well 7 is approximately 0.2-mile up gradient of the subject site.

3.2.3 Tank and Product piping Layout (Onsite)

Review SAM and APCD files – Two separate SAM file reviews were conducted. The file reviews aiding in the understanding of tank and product piping information, tank and product piping installations and removals, laboratory results, and site history and is summarized as follows:

Tank and product piping locations – A number of maps were located that indicated tank and product piping layouts. Confidence in the information is variable in that some information indicated never took place and some of the drawings could only be described as schematic and not-to-scale at best. The information review was used to generate a table identifying current and past tanks (Appendix B, Table B-1) and to generate Figure 4, which indicates the approximate location of current and past product piping onsite.

Tank and product piping removed – Records of removed tanks and product piping are plotted on Figure 4 and listed on Appendix B, Table B-1 and the associated analytical results are listed in Appendix F, Table F-1.

Products stored – Appendix B, Table B-1 also indicates that the product(s) listed in the records reviewed had been stored in each tank over time. Appendix B, Table B-2 summarizes the current products available at the dispensers.

USTs – The records indicate that 15 USTs have existed onsite.

USTs have historically held various grades of gasoline, diesel, kerosene, waste oil, weed oil, and solvent (apparently mineral spirits).

Current 2 USTs (Magenta on Figure 4 and Appendix B, Table B-1)
Currently, the USTs in use consist of a 20,000-gallon tank with products in four separate compartments (U-7 Gasoline, U-8 Diesel, U-9 Gasoline, and U-10 Diesel) and a 4,000-gallon tank containing racing gasoline. These tanks are located on the eastern side of the main building. The current, newer (installed in 1997 or 1998) associated product piping extends from U-7 through U-10 to the dispensers at the front of the property to supply gasoline and diesel and to the rear of the property to supply diesel only. The product piping for U-11 extends only a few feet to a nearby dispenser.

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Previous Additional 13 USTs (Green and Blue on Figure 4 and Appendix B, Table B-1)
A number of USTs were previously removed at the site along with associated product piping in three separate events. These were located at the western, southern, and eastern corners of the main building, southwest of the smaller AST pad in back of the main building, and northwest of the large AST pad at the back corner of the property.

Event 1 took place in May of 1988 (Green on Figure 4 and Appendix B, Table B-1) when 4 USTs (RU-1, RU-2, RU-3, and RU-4) were removed. These tanks historically held gasoline in RU-1 and RU-2; gasoline, kerosene, and possibly diesel in RU-3; and, racing gasoline in RU-4. U-11, mentioned above, was also installed at this time. The HMMD tank removal report (included in Appendix B) indicated that all four excavations exhibited odors, RU-1 (Tank 2 on HMMD report) had holes in the tank, and RU-3 (Tank 3), RU-2 (Tank 4), and RU-4 (Tank 1) had possible product piping leaks. Soil sample results of up to 1,300 mg/kg TEH and 65 mg/kg benzene were identified.

Event 2 took place onsite in October of 1997 when various older gasoline and diesel product piping were removed. The four-compartment tank (U-7 through U-10) and the associated product piping appear to have been installed at the same time. The SAM product piping removal report (included in Appendix B) indicated that slight odors were detected. Based on a diagram of the sample locations, samples P-1 through P-4, P-7, and P-10 were taken along the product piping supplying diesel from RU-10 and RU-11 to the front dispensers. There are drawings in Appendix B also showing one or two (side-by-side) 10,000-gallon AST(s) connected to this product piping. None of the records reviewed or persons interviewed were aware of this arrangement, and it appears to represent a plan to augment UST storage with AST(s), but was never enacted.

Samples P-5, P-6, P-8, and P-9 were also taken along the product piping supplying diesel from RU-10 and RU-11 to the front dispensers, but older product piping that supplied gasoline from RU-5 and RU-9 to the front dispensers were also present. Analytical results indicate releases from the older product piping associated with RU-5, RU-9, RU-10, and RU-11 had taken place with levels of up to 3,043 mg/kg gasoline and 115,444 mg/kg diesel present in the soil.

Event 3 took place in May of 1998 (blue on Figure 4 and Appendix B, Table B-1) when nine USTs (RU-5 through RU-13) were removed. These tanks historically held gasoline in RU-5; waste oil or weed oil in RU-7; kerosene, solvent, or waste oil in RU-8; gasoline or solvent in RU-9; and, diesel in RU-6, RU-10, RU-11, RU-12, and RU-13. The SAM tank removal report (included in Appendix B) indicted that RU-7 (Tank 3 on SAM report) had holes and all the excavations had slight odors. Based on a diagram of the sample locations, samples taken from soil below tanks RU-5 and RU-9 indicated that gasoline had been released (MTBE and benzene were also identified in the sample from RU-5) and RU-6, RU-10, RU-11, RU-12, and RU-13 indicated that diesel had been released. RU-7 and RU-8 indicated that waste oil had been released. Levels of up to 820 mg/kg gasoline, 23,000 mg/kg diesel, and 5,900 mg/kg waste were indicated.

According to the records, many problems have been experienced with the USTs onsite. These include holes, product piping leaks, odors in the pits, and soil samples indicating releases. Any tank is a valuable resource at a bulk facility. The fact that the four USTs removed in 1988 were used up almost until the time they were removed, and that the products they stored had to be replaced with other equipment, provides strong indirect evidence of probable ongoing leaks. Leaks may have been suspected by the operator, contributing to the decision to remove the tanks. The quantity of UST releases that have taken place onsite is unknown. The exact dates of UST releases are also unknown.

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ASTs - The records indicate that 19 ASTs have existed onsite.

Historically, ASTs onsite have stored various grades of diesel, kerosene, solvent (mineral spirits), various grades of fresh motor oil, fresh hydraulic fluid, stove oil, propane, and racing gasoline kept for a short period in two convault-type (dual-wall concrete encased) tanks with no associated product piping.

Currently eighteen ASTs (orange on Figure 4 and Appendix B, Table B-1)
Of the eighteen ASTs, all are single-walled steel, except for three Convault-type tanks, two of which are mentioned above as having held gasoline for a short period. The third has held solvent and waste oil.

Tanks A-1 through A-6 and A-12 through A-14 have product piping limited to the eastern third of the site. Tank A-23 holds propane. The rest of the ASTs are believed to have no below ground product piping.

Sixteen Active ASTs – Located as follows: One on the eastern corner of the main building, two located in the main building, seven in the smaller AST pad behind the main building, and six in the large AST pad at the back corner of the property.

Two Inactive ASTs - Both are Convault-type tanks, one in the smaller AST pad behind the main building and one on the eastern corner of the main building.

Previously 1 Additional AST (orange on Figure 4 and Appendix B, Table B-1)
A former propane tank at the northern corner of the property was replaced by A-23.

Leaks from ASTs are obvious by nature in that there is visual evidence. The visual evidence that would draw attention to a leaking AST by someone nearby includes: 1) liquid flowing on the tank surface or across the surrounding area; 2) the double containment filled with liquid; and, 3) the associated sounds and odors. No definitive report of any release from an AST was found in the research documents or was indicated by interviewees. Because of the slope and drainage patterns onsite, any sizable AST release would either partially fill or possibly even overtop secondary containment. If secondary containment was breached, a release would be expected to flow downhill across the site and to Woodside Avenue. No associated staining of secondary containment or concrete paving has been observed during the multiple visits EnecoTech has made to the site.

There exists an informal phone conversation note dated March 7, 1991, between Mr. David Felix of SAM and Mr. York Himerdinger of Fiesta Oil (this is during the period that the BWO bankruptcy trustee operated the site). The note indicates that 1) all employees had just received notice of termination without warning (apparently by the trustee), 2) the facility suffered a kerosene release recently, 3) Mr. Himerdinger would follow up the call with a long letter, and 4) Mr. Felix indicates he was agitated because of termination. The phone note does not indicate if a tank was involved, tank type or ID, location, or quantity of supposed release (Appendix B). It is unclear whether the release was from a UST, AST, small contents stock, or truck. No follow up letter was apparently ever received. EnecoTech contacted Mr. Himerdinger in February 2003. He indicated he had no recall of the incident at all. EnecoTech does not deem the phoned-in report to be fully reliable in that it was apparently made in a time of duress, the reporter no longer recalls it, and there was no apparent follow up by the reporter or HMMD/SAM. The only tanks indicated in Table B-1 to have held kerosene are USTs RU-3 and RU-8 and AST A-12.

There has never been a report identifying a direct release of product from an AST or AST product piping. The only AST to be removed from the site held propane, which is not of concern due to it being above ground and the product piping and high vapor pressure. It appears to have been replaced to increase capacity and provide a better location to fill customers' tanks. There is no record on any other AST being replaced or repaired. All the ASTs onsite appear to be in good condition.

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ASTs A-15, A-16, A-17, A-18, A-19, A-20, A-21, and A-22 do not appear to have any product piping, but rather dispense directly from the tank. ASTs A-1, A-2, A-3, A-4, A-5, A-6, A-13, and A-23 all appear to have only above ground product piping. There is no record of a report identifying a direct release of product from AST above ground product piping. The only ASTs onsite that appear to have underground product piping are A-12 and A-14 (both holding diesel). These two tanks supply diesel fuel to the back dispensers through the product piping as indicated on Figure 4. Previously, A-12 supplied diesel fuel to some of the front dispensers by way of product piping that extended from the tank and around the northeastern side of the main building.

According to the records, no AST (except the two small Convault-type tanks with no associated product piping) has ever held gasoline onsite. Interviewees also confirmed that none of the single-wall ASTs onsite ever held gasoline and that the Santee Fire Department would not allow gasoline in single-wall ASTs. Phone contact with the Fire Marshall of the City of Santee (Appendix B) confirms that the storage of gasoline in single-wall ASTs has not been allowed by the Fire Department for the last 7 years, and to his understanding, since the City incorporated in 1980.

Review Buy Wright Oil files readily available – EnecoTech reviewed files for work conducted previously for BWO and others to further clarify the understanding of these various research issues.

Interviews:
Mr. Dennis Fransway of EnecoTech, as a past employee of BWO, was able to provide information regarding approximate tank and product piping locations and products stored. This information was helpful in developing Appendix B, Table B-1 and Figure 4. Mr. Fransway also confirmed that none of the ASTs onsite ever held gasoline in his three years at BWO. He also indicted that the Santee Fire Department would not allow gasoline in ASTs.

Mr. Sam Reid of ECO provided a list of the current designation of tanks onsite and their current status and contents (these designations were utilized as a base in the figures and tables depicting current tanks). This information was helpful in developing Appendix B, Table B-1 and Figure 4. Mr. Reid also confirmed that none of the ASTs have held gasoline since ECO took over operations.

3.2.4 Property Ownership, Business Use in Area, and Contact with Adjacent Property Owners

County Assessors' office visited – A file search was performed in conjunction with field verification to identify the adjacent and area property uses and occupancy (indicated on Figure 3). The area uses are mainly commercial and light industrial along Woodside Avenue and Woodside Avenue North with limited residential use behind the commercial/light industrial uses along the southeast side of Woodside Avenue. The file search also included information needed to contact the adjacent property owners to request permission to access their property for drilling. EnecoTech contacted the adjacent property owners and requested permission for site access for boring and/or well placement. Both refused up until the time that fieldwork was conducted. Based on the results of the fieldwork, there does not appear to be a reason to access the adjacent property to the north. Since the completion of the most recent fieldwork, the adjacent property owner to the south has indicated a willingness to grant permission to access his property as long as the property owner makes certain concessions.

Topographic map review – The map was of limited usefulness in that the revision of the map is based on aerial photos from 1975 and much has changed from that time (USGS, 1929). No wells or well houses are obvious on the map.

MapQuest search – This search did not yield any useful data.

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Polk & Haynes Directory review – This source provided information regarding former business located in the area. The main purpose of this survey is to evaluate the likelihood of other businesses in the area sustaining an unauthorized release that may be contributing to the impact identified. Based on business names, no other fueling facility or business that would be expected to have USTs with gasoline or diesel were listed.

3.3 Site Assessment Field Work

3.3.1 General Field Work Information

Well Permit - EnecoTech applied for and received an approved well permit from SAM. The well permit was for thirteen soil borings/temporary wells onsite and in adjacent areas, in case the proposed seventeen was not possible. Due to the extent of impact, EnecoTech placed a total of eighteen soil borings to depth with 2 additional borings attempted, but resulting in shallow refusal. A well permit for the additional five soil boring/temporary wells will be submitted to SAM.

Encroachment - EnecoTech also applied for and received an approved encroachment permit from the City of Santee. Work conducted in Woodside Avenue could not begin until 08:30 and completed by 15:30. The encroachment permit required EnecoTech to obtain an approved traffic plan in order to maintain traffic flow through the areas where work was being conducted. EnecoTech contracted Traffic Control Services to prepare a safety plan and provide all appropriate traffic signs and barricades.

Utilities – EnecoTech contacted Underground Service Alert (USA), as required by state law, prior to the placement of borings. USA contacted individual utility companies to locate their Improvements on the subject site and Woodside Avenue and Woodside Avenue North. The utilities identified on the subject site and Woodside Avenue have been plotted in gray on Figure 2; all transverse the site or are parallel to Woodside Avenue. The utilities identified are 1) three water supply pipes (68-, 48-, and 36-inch diameters), 2) sanitary sewer pipe, 3) natural gas pipes (6 and 2 inch diameter, high pressure), and 4) fiber optic conduits. Of these, the only utilities expected to be deep enough to provide a potential route for transport of a release are the water pipes. The actual depth of the utility placements was not known by the locators.

From December 3 through 6, 2002, EnecoTech directed and observed the placement of twenty soil borings/temporary monitoring wells both onsite and northwest of the site (Figures 2 and 3). EnecoTech contracted HP Labs, a California C-57 licensed Well Driller, to advance the soil borings using a StrataProbe® rig. Soil samples were collected from eighteen of the borings using a 24-inch split-spoon sampler. Groundwater samples were collected from seventeen of the twenty soil borings advanced during this site assessment. EnecoTech's field procedures along with boring logs and gauging sheets are included in Appendix C.

HP Labs was also contracted to provide mobile laboratory services. The mobile laboratory provided EnecoTech with real-time analytical data used to characterize and assess extent of soil and groundwater impact. Laboratory reports and chain of custody are included as Appendix D.

A site-specific safety plan (Plan) was developed by EnecoTech. Prior to initiation of site assessment activities, a site safety meeting was held and the Plan was reviewed and signed by EnecoTech and Contractor Staff. For safety purposes, all boring locations were hand augered to a depth of 5 feet to clear any utilities. The soil generated from the hand augering was placed in properly labeled 55-gallon drums and stored onsite. The drill rig did not produce any spoils.

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3.3.2 Daily Field Information

December 3, 2002

On December 3, 2002, twenty onsite boring locations were core-drilled through possible boring locations where pavement was present. Soil borings B1, B2, B3, and B4 were advanced and soil samples were collected. Temporary well casings were placed into the borings to facilitate gauging groundwater elevation, checking for the presence of free product, and collecting groundwater samples. Soil boring/temporary well B1 was placed in the western corner of the subject site adjacent to Woodside Avenue. The area was paved with approximately 7 inches of concrete. Soil underlying the concrete consisted of light to moderate brown, damp to moist, fine to coarse sand to a depth of approximately 25 feet bgs. Soil samples were collected at 5-foot intervals to this depth. No petroleum hydrocarbon odor (PHO) or elevated photo-ionization detector (PID) readings were observed. From approximately 30 to 40 feet bgs (final depth of B1), alluvium consisted of light olive gray to olive gray, moist to saturated, fine to coarse sand. Initial groundwater was encountered at 32 feet bgs. Soil samples collected at 30, 32, 34, and 36 feet bgs exhibited slight to very strong PHO and PID readings as high as 2,484 parts per million by volume (ppmv) at 32 feet bgs. Soil samples collected at 38 feet and 40 feet bgs did not exhibit PHO or elevated PID readings.

Soil boring/temporary well B2 was placed in the northeastern corner of the subject site adjacent to Woodside Avenue. The area was paved with approximately 7 inches of concrete. Soil underlying the concrete consisted of moderate brown, damp to saturated, fine to medium sand with clay binder to a depth of approximately 40 feet bgs. Soil samples were collected at 5-foot intervals to 30 feet bgs. From approximately 30 feet to 40 feet bgs, soil samples were collected at 30, 32, 34, 36, and 40 feet bgs. Initial groundwater was encountered at 32 feet bgs. No PHO or elevated PID readings were observed in any of the soil samples collected from B2.

Soil boring/temporary well B3 was placed along the southern edge of the subject site approximately 20 feet east of MW1. Soil underlying the concrete consisted of moderate brown, damp, fine to coarse sand to a depth of approximately 19 feet bgs. Soil samples were collected at 7 and 10 feet bgs. No PHO or elevated PID readings were observed in these samples. From approximately 20 to 40 feet bgs (final depth of B3), alluvium consisted of light olive gray, damp to saturated, fine to coarse sand. Soil samples were collected at 20, 25, 30, 32, 34, 36, and 40 feet bgs. Initial groundwater was encountered at 32 feet bgs. The soil sample collected at 20 feet bgs exhibited a slight PHO and a PID reading of 7 ppmv. Soil samples collected at 25, 30, 32, and 34 feet bgs exhibited very strong PHO and PID readings as high as 1,350 ppmv at 32 feet. Soil samples collected at 36 feet and 40 feet bgs did not exhibit a PHO or elevated PID readings.

Soil boring/temporary well B4 was also placed along the southern edge of the subject site approximately 60 feet east of B3. Soil underlying the concrete consisted of moderate brown, damp, fine to coarse sand to a depth of approximately 20 feet bgs. Soil samples were collected at 7, 10, and 20 feet bgs. No PHO or elevated PID readings were observed in these samples. From approximately 20 feet to 32 feet bgs, alluvium consisted of light olive gray, damp to saturated, fine to coarse sand. Soil samples were collected at 30 feet and 32 feet bgs and exhibited strong PHO and PID readings as high as 528 ppmv at 32 feet bgs. Initial groundwater was encountered at 32 feet bgs. From 32 to 40 feet bgs, alluvium consisted of dusky yellowish brown to black, saturated, fine to coarse sand. Soil samples collected at 34 and 36 feet bgs also exhibited a strong PHO and PID readings as high as 580 ppmv. Soil samples collected at 38 and 40 feet bgs did not exhibit PHO or elevated PID readings.

December 4, 2002

On December 4, 2002, EnecoTech supervised the placement of five soil borings (B5, B6, B7, B8, and B9). B6 through B9 were placed on the north side of Woodside Avenue between the southbound lane and the unpaved shoulder. EnecoTech obtained an encroachment permit from the City of Santee allowing work to be performed in the street. The permit required EnecoTech to provide traffic control allowing

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vehicles to travel safely through the work zone. Another condition of the permit restricted the hours EnecoTech could work in the street. Work in the street could not begin until 08:30 and had to end no later than 15:30. Working with these time constraints, EnecoTech first advanced B5 along the southern edge of the site approximately 60 feet east of B4. Once B5 was completed, traffic control was set up and work in the street began. Work in the street was completed and traffic control was broken down by 15:30.

Soil boring/temporary well B5 was placed along the southern edge of the subject site approximately 60 feet east of B4. Soil underlying the concrete consisted of moderate brown, damp, fine to coarse sand to a depth of approximately 9 feet bgs. From approximately 10 to 19 feet bgs, alluvium consisted of dark yellowish brown, damp, fine to coarse sand. Underlying the fine to coarse sand to 28.5 feet bgs (end of B5 due to refusal), alluvium consisting of moderate brown, damp, fine sandy clay was encountered. Soil samples were collected at 7, 10, 20, and 28 feet bgs. No PHO or elevated PID readings were observed in these samples. A casing was placed in B5 to obtain a groundwater sample, however, groundwater did not accumulate in the casing.

Soil boring/temporary well B6 was placed on the north side of Woodside Avenue approximately 100 feet west of B1. B6 was advanced to 40 feet bgs and samples were collected at 30, 32, 34, 36, and 40 feet bgs. The area was paved with approximately 4 inches of asphalt. A hand auger was used to advance B6 to a depth of 5 feet bgs, clearing any utilities. Alluvium underlying the asphalt consisted of moderate brown, damp, fine to coarse sand with clay binder to a depth of 3 feet bgs. From approximately 3 to 29 feet bgs, alluvium consisted of dark yellowish brown, damp coarse sand. From approximately 30 to 40 feet bgs, alluvium consisted of light olive gray, damp to saturated, coarse sand. Initial groundwater was encountered at 32 feet bgs. Soil samples collected at 30 and 40 feet bgs did not exhibit PHO or elevated PID readings. Soil samples collected at 32, 34, and 36 feet bgs exhibited slight to strong PHO and PID readings as high as 1,060 ppmv at 34 feet bgs.

Soil boring/temporary well B7 was placed on the north side of Woodside Avenue approximately 115 feet southwest of B6. B7 was advanced to 40 feet bgs and samples were collected at 25, 30, 32, 36, and 40 feet bgs. The area was paved with approximately 4 inches of asphalt. A hand auger was used to advance B7 to a depth of 5 feet bgs, clearing any utilities. Alluvium underlying the asphalt consisted of moderate brown, damp, fine to coarse sand to a depth of 29 feet bgs. From approximately 29 to 40 feet bgs, alluvium consisted of light olive gray, damp to saturated, coarse sand. Initial groundwater was encountered at 32 feet bgs. Soil samples collected at 25, 30, 32, and 40 feet bgs did not exhibit PHO or elevated PID readings. The soil sample collected at 36 feet bgs exhibited slight PHO and PID readings of 28 ppmv.

Soil boring/temporary well B8 was placed on the north side of Woodside Avenue approximately 100 feet northeast of B6. B8 was advanced to 38 feet bgs and samples were collected at 25, 32, 34, 36, and 38 feet bgs. The area was paved with approximately 4 inches of asphalt. A hand auger was used to advance B8 to a depth of 5 feet bgs, clearing any utilities. Alluvium underlying the asphalt consisted of moderate brown, damp, fine to coarse sand with clay binder to a depth of 24 feet bgs. From approximately 24 to 40 feet bgs, alluvium consisted of light olive gray, damp to saturated, fine to medium sand. Initial groundwater was encountered at 32 feet bgs. Soil samples collected at 25 and 36 feet bgs exhibited slight PHO but no elevated PID readings. The soil samples collected at 32 and 34 feet bgs exhibited strong PHO and PID readings as high as 1,680 ppmv. The soil sample collected at 38 feet did not exhibit a PHO or an elevated PID reading

Soil boring/temporary well B9 was placed on the north side of Woodside Avenue approximately 150 feet northeast of B8. B9 was advanced to 40 feet bgs and samples were collected at 25, 31, 33, 35, and 40 feet bgs. The area was paved with approximately 4 inches of asphalt. A hand auger was used to advance B9 to a depth of 5 feet bgs, clearing any utilities. Alluvium underlying the asphalt consisted of moderate brown, damp, fine to coarse sand with clay binder to a depth of 24 feet bgs. From approximately 24 to 40

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feet bgs, alluvium consisted of olive gray, damp to saturated, fine to coarse sand with trace clays. Initial groundwater was encountered at 33 feet bgs. Soil samples collected at 25, 31, and 35 feet bgs exhibited slight PHO and elevated PID readings as high as 26 ppmv. The soil sample collected at 33 feet bgs exhibited strong PHO and a PID reading of 609 ppmv. The soil sample collected at 40 feet bgs did not exhibit a PHO or an elevated PID reading.

December 5, 2002

On December 5, 2002, EnecoTech supervised the placement of four soil borings (B10, B11, B12, and B13). B10 through B12 were placed in the unpaved shoulder adjacent and between the northbound lane of Woodside Avenue North and the fence of Highway 67. This work was performed under the guidelines set forth in the encroachment permit obtained from the City of Santee. EnecoTech set up traffic control at 08:30 and advanced B10, B11, and B12. Work in the street was completed and traffic control was broken down by 15:30. Once traffic control was broken down, soil boring B13 was placed onsite approximately 10 feet northwest of MW4.

Soil boring/temporary well B10 was placed on the unpaved shoulder of Woodside Avenue North approximately 350 feet west of B1. B10 was advanced to 40 feet bgs and samples were collected at 7, 10, 15, 20, 27, 29, 30, 32, 34, and 40 feet bgs. A hand auger was used to advance B10 to a depth of 5 feet bgs, clearing any utilities. Alluvium consisted of moderate brown, damp, fine to coarse sand with clay binder to a depth of 14 feet bgs. From approximately 15 to 40 feet bgs, alluvium consisted of dark yellowish brown, damp to saturated, fine to coarse sand. Initial groundwater was encountered at 32 feet bgs. None of the soil samples collected exhibited PHO or elevated PID reading.

Soil boring/temporary well B11 was placed on the unpaved shoulder of Woodside Avenue North approximately 100 feet northeast of B10. B11 was advanced to 45 feet bgs and samples were collected at 27, 31, 36, 40, and 45 feet bgs. A hand auger was used to advance B11 to a depth of 5 feet bgs, clearing any utilities. Alluvium consisted of moderate brown, damp, fine to coarse sand with clay binder to a depth of 26 feet bgs. From approximately 27 to 35 feet bgs, alluvium consisting of dark yellowish brown, damp to saturated, fine to medium sand was encountered. Alluvium from 36 to 45 feet bgs (end of B11) consisted of olive gray, saturated, fine to coarse sand with clays. Initial groundwater was encountered at 32 feet bgs. Soil samples collected at 27, 31, and 45 feet bgs did not exhibit PHO or elevated PID readings. Samples collected at 36 and 40 feet bgs exhibited PHO and PID readings as high as 23 ppmv.

Soil boring/temporary well B12 was placed on the unpaved shoulder of Woodside Avenue North approximately 330 feet northeast of B11. B12 was advanced to 44 feet bgs and samples were collected at 27, 32, 34, 36, 38, 40, 42, and 44 feet bgs. A hand auger was used to advance B11 to a depth of 5 feet bgs, clearing any utilities. Alluvium consisted of moderate brown, damp, fine to coarse sand with clay binder to a depth of 26 feet bgs. From approximately 27 to 35 feet bgs, alluvium consisting of dark yellowish brown, damp to saturated, fine to coarse sand was encountered. Alluvium from 36 to 44 feet bgs (end of B12) consisted of olive gray, saturated, coarse sand. Initial groundwater was encountered at 32 feet bgs. Soil samples collected at 27, 32, and 44 feet bgs did not exhibit PHO or elevated PID readings. Samples collected at 34, 36, 38, 40, and 42 feet bgs exhibited slight to strong PHO and PID readings as high as 628 ppmv at 36 feet bgs.

Soil boring/temporary well B13 was placed onsite adjacent to Woodside Avenue approximately 10 feet northwest of MW4. The area was paved with approximately 7 inches of concrete. B13 was advanced to 45 feet bgs and samples were collected at 25, 30, 35, 40, and 45 feet bgs. Soil underlying the concrete consisted of moderate brown, damp, fine to coarse sand with clay binder to a depth of approximately 24 feet bgs. From approximately 25 to 45 feet bgs (final depth of B13), alluvium consisted of olive gray, moist to saturated, fine to coarse sand. Initial groundwater was encountered at 35 feet bgs. Soil samples collected at 30, 35, and 40 feet bgs exhibited slight to strong PHO and PID readings as high as 43 ppmv at 35 feet bgs. The soil sample collected at 45 feet bgs did not exhibit PHO or an elevated PID reading.

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December 6, 2002

On December 6, 2002, EnecoTech supervised the placement of five soil borings (B14, B15, B16, B17 and B18). B14 was placed onsite approximately 20 feet northwest of the propane AST. B15 and B16 were placed in the unpaved shoulder adjacent and between the northbound lane of Woodside Avenue North and the fence of Highway 67. EnecoTech set up traffic control at 08:30 and advanced B15 and B16. Work in the street was completed and traffic control was broken down by 13:00. Once traffic control was broken down, soil borings B17 and B18 were advanced onsite. B17 was placed approximately 50 feet northeast of B3 outside of the fenced AST area. B18 was placed along the northeast edge of the site approximately 20 feet east of MW2. An attempt was made to advance two additional borings (B19 and B20). B19 was located adjacent to the front of the main building and B20 was located approximately 25 feet east of B17. B19 was advanced to a depth of 0.8 foot bgs before refusal. B20 was advanced to 3.5 feet bgs where an electrical conduit was discovered.

Soil boring/temporary well B14 was advanced to approximately 37 feet bgs and samples were collected at 7, 10, 20, 25, 30, 35, and 37 feet bgs. Soil underlying the concrete consisted of moderate brown, damp, fine to coarse sand with clay binder to a depth of approximately 9 feet bgs. From approximately 10 to 19 feet bgs, alluvium consisted of dark yellowish brown, damp, medium to coarse sand. From approximately 20 to 37 feet bgs (end of B14), alluvium consisting of moderate brown, damp to saturated, fine to coarse sand with clay was encountered. No PHO or elevated PID readings were observed in the samples collected at 7, 10, 35, and 37 feet bgs. Samples collected at 20, 25, and 30 feet bgs exhibited slight to strong PHO and PID readings as high as 223 ppmv at 25 feet bgs.

Soil boring/temporary well B15 was placed on the unpaved shoulder of Woodside Avenue North approximately 200 feet northeast of B12. B15 was advanced to 38 feet bgs and samples were collected at 32, 33, 34, 35, 36, and 38 feet bgs. A hand auger was used to advance B15 to a depth of 5 feet bgs, clearing any utilities. Alluvium consisted of moderate brown, damp, fine to coarse sand with clay binder to a depth of 38 feet bgs. Initial groundwater was encountered at 33 feet bgs. None of the soil samples collected exhibited PHO or elevated PID readings.

Soil boring/temporary well B16 was placed on the unpaved shoulder of Woodside Avenue North approximately 300 feet southwest of B10. B16 was advanced to 45 feet bgs and samples were collected at 29, 31, 32, 33, 35, 40, 44, and 45 feet bgs. A hand auger was used to advance B16 to a depth of 5 feet bgs, clearing any utilities. Alluvium consisted of moderate brown, damp, medium to coarse sand with clay binder to a depth of 28 feet bgs. From approximately 29 to 45 feet bgs, alluvium consisting of dark yellowish brown, damp to saturated, medium sand was encountered. Initial groundwater was encountered at 31 feet bgs. None of the soil samples exhibited PHO or elevated PID readings.

Soil boring/temporary well B17 was placed onsite adjacent to the south corner of the building approximately 50 feet northeast of B3. B17 was advanced to 40 feet bgs and samples were collected at 7, 10, 15, 20, 25, 30, 32, 34, 36, and 40 feet bgs. Alluvium consisted of black, saturated (with oily substance), medium to coarse sand to a depth of 2 feet bgs. From approximately 2 to 7 feet bgs, alluvium consisting of moderate brown, damp, medium sand with clay binder was encountered. Light olive gray, damp to saturated, medium to coarse sand was present from 7 to 36 feet bgs. Moderate brown, saturated, coarse sand was present from 36 to 40 feet bgs. Initial groundwater was encountered at 32 feet bgs. Soil samples collected at 7, 10, 15, 20, and 25 feet bgs exhibited slight PHO and PID readings ranging from 0 ppmv at 15 feet bgs to 66 ppmv at 7 feet bgs. Soil samples collected at 30, 32, and 34 feet bgs exhibited strong PHO and PID readings ranging from 590 ppmv at 30 feet bgs to 754 ppmv at 34 feet bgs. No PHO or elevated PID reading was observed at 40 feet bgs.

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Soil boring/temporary well B18 was placed along the northeast edge of the site approximately 20 feet east of MW2. B18 was advanced to 40 feet bgs and samples were collected at 5, 10, 15, 20, 25, 30, 32, 34, 36, and 40 feet bgs. Alluvium consisting of moderate brown, damp to saturated, medium sand with clay binder was present from the surface to 36 feet bgs. From 36 to 40 feet bgs, alluvium consisted of moderate brown, moist, sandy clay. Groundwater was not initially encountered, then seeped into the boring and rose to 32.84 feet bgs. Soil samples collected at 32, 34, and 36 feet bgs exhibited slight PHO and PID readings ranging from 7 ppmv at 36 feet bgs to 38 ppmv at 32 feet bgs. No PHO or elevated PID readings were present in soil samples collected at 5, 10, 15, 20, 25, and 40 feet bgs.

As a result of beginning each boring by hand auger, two drums of potentially impacted soil were generated. These drums were disposed of properly by EFR and the manifest is included in Appendix E.

3.3.3 Site-Specific Geology

The following descriptions are a compilation of materials encountered throughout the site assessment. The geology at the facility consists of alluvial interbedded with colluvial material transported and deposited via stream flow and slope wash. Alluvial/colluvial material encountered consisted of angular, fine to medium sands with occasional increases in grain size to very coarse sand with scattered gravels to two-inches in diameter. Classification was based on the United Soil Classification Scheme (USCS) ranges from SW, SP, and SC to GP. Based on local topography, the majority of the alluvial material originated from drainages to the southeast, which are minor first order tributaries of the San Diego River to the north. These materials generally consist of well-sorted sands with occasional clay. These materials have been deposited unconformably on granitic bedrock, which displays weathering. The bedrock was encountered in borings at the rear (southeast) portion of the site during the 1988 site assessment and in B5 at 28 feet bgs during this investigation and is indicated in Section C-C' on Figure 10.

3.4 Soil Analytical Results

The samples were analyzed at a California state-certified laboratory for TPHd and TPHg by EPA Method 8015. The samples were also analyzed for BTEX and MTBE by EPA Method 8021. Soil samples containing detectable concentrations of BTEX or MTBE were confirmed by EPA Method 8260B. Laboratory results are presented in Table 1a and Figures 6 through 10b. The analytical results from the 1988 investigation have not been included since the data is aged and concentrations are currently much higher. The laboratory report and chain of custody are included in Appendix D. Since each boring has multiple results with depth for any particular analyte, Figures 6 through 9 indicate the highest result at each boring for the constituent in question. Data for MW6 through MW8 from the previous investigation are also included, although the results are from EPA Method 8021 only.

Figures 6 (site only) and 7 (on and offsite) display benzene and MTBE results along with indicated concentration contours. Borings B3, B17, B1, MW8, and B8 contained the highest concentrations of benzene in soil of up to 20 mg/kg. All of these except MW8 are located in the south and southwestern portion of the property, as is also indicated by the associated contour. Significant MTBE of up to 1.4 mg/kg was found only in borings B3 and B18, with the associated contour in the same general area as the one for benzene.

Figures 8 (site only) and 9 (on and offsite) display TPHg and TPHd results along with indicated concentration contours. Borings B1, B3, B4, B8, B9, B12, B13, B14, B17, B18, MW6, and MW8 contained the highest concentrations of TPHg and TPHd 11,000 mg/kg and 24,000 mg/kg, respectively. All of these except MW8 and B12 are located in the southern and western portion of the property. B12 appears to indicate that the plume extends across Highway 67 to Woodside Avenue North and B18 appears to be a 'hot spot' on the mid-northeastern property line.

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Figures 8 and 9 indicate the line of sections used for the cross sections on Figures 10, 10a and 10b. Section A-A' extends from B12 on Woodside Avenue North in a southeasterly direction to B5 on the southern property line. Section B-B' extends from B6 in Woodside Avenue to B2 in the northern property corner across the front of the site. Section C-C' extends from the western property corner to B5 along the southern property line. Concentrations of benzene in soil are confined to a relatively thin vertical horizon in the subsurface centered around MW8 and B17 in A-A', between B8 and MW6 in B-B', and between B1, B3, and B4 in C-C'. Concentrations of MTBE in soil are also confined to a relatively thin vertical horizon in the subsurface between B3 and B4 in C-C' only.

Concentrations of TPHg in soil are also confined to a thicker vertical horizon in the subsurface, extending almost the whole width of A-A' and C-C' and between B8 and MW6 in B-B'. Concentrations of TPHd in soil is also confined to a thicker vertical horizon in the subsurface, almost extending across the width of all three sections.

3.5 Groundwater Assessment

Upon completion of each boring, EnecoTech supervised the installation of ¾-inch PVC casing. The casings were left in place for a period of up to twenty-four hours. The borings were sealed by placing a plastic bag collar around the casing in the boring and hydrating two inch thick 'doughnut' of bentonite chips. The casing was then capped. This provided a temporary well seal and prevented any materials from inadvertently falling into the boring. After sampling, the temporary wells were destroyed by removing the casings and filling the borings will bentonite chips. The destruction was completed with a six-inch concrete surface seal. 24 hrs.

3.5.1 Groundwater Elevations

Groundwater elevations have been relatively consistent in MW1 through MW4 since 1988. Cumulative groundwater elevation data is presented in Table 2a. EnecoTech staff gauged MW1 through MW8 as well as B1 through B17 during this site assessment. Groundwater elevation data collected from permanent monitoring wells is presented on Figure 5. The data indicates a general flow direction to the southwest with a gradient that ranges from approximately 0.004 to 0.001. The construction details of the monitoring wells are listed on Table 2b.

3.5.2 Site-Specific Hydrogeology

Groundwater is currently found in the alluvium at depths generally between 29 to 31 feet bgs. Historical depths to groundwater have generally ranged from 27 to 32 feet bgs. The indicated direction of groundwater flow and gradient have varied from west at 0.0008 in May 1988, to northwest and 0.01 in March 1998, to 0.03 and southwest in April 2000, and southwest and 0.004 to 0.001 in April 2002. This is unusually variable especially considering that all the gauging was performed in the same season (spring). However, it should be noted that the last two gaugings have resulted in similar directions of groundwater flow. The only drinking water/industrial well identified within 2,250 feet of the site is approximately 0.2-mile up gradient of the subject site.

3.5.3 Groundwater Sampling

Once groundwater elevations stabilized, the temporary wells were gauged for elevation and the presence of free product. The wells were then sampled using disposable Teflon bailers. A total of five 40 milliliter (ml) Voas (preserved with hydrochloric acid) were collected from each temporary well sampled and submitted to the mobile laboratory for analysis. After sampling, the temporary wells were destroyed.

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3.5.4 Free Product

Free product gasoline was present in temporary wells and monitoring wells during this site assessment. Soil borings B3, B4, B13, and B17 contained free product, although the thicknesses measured are deemed to be unreliable because of the diameter of the casing used and the short time period between well placement and measurement. The presence of free product in the temporary wells is indicated on Figure 13. Monitoring wells MW2, MW3, and MW4 also contained free product. Free product thickness ranged from 0.07 inch in MW2 to 0.48 inch in MW3. Free product measurements for the monitoring wells are presented in Table 2a and on Figure 13.

SAYS FEET IN TABLE 2a + in field notes

3.6 Groundwater Analytical Results

Groundwater samples were analyzed at a California state-certified laboratory for TPHd and TPHg by EPA Method 8015. The samples were also analyzed for BTEX and MTBE by EPA Method 8021. Groundwater samples containing detectable concentrations of BTEX or MTBE were confirmed by EPA Method 8260B. Laboratory results are presented in Table 3a and on Figures 11 through 14. The analytical results from the 1988 investigation have not been included since the data is aged and concentrations are currently much higher. The laboratory report and chain of custody are included in Appendix D. Data for MW6 through MW8 from the previous investigation are also included, although the results are from EPA Method 8021 only.

Figures 11 (site only) and 12 (on and offsite) display benzene and MTBE results along with indicated concentration contours. Borings B1, B3, B4, B6, B7, B8, B10, B11, B17, MW1, MW4, and MW6 all contained concentrations of benzene in groundwater of at least 100 µg/l and up to 13,000 µg/l. The highest concentration was found in the western corner of the site. The greater than 100 µg/l plume extends roughly across the western half of the site then approximately 140 feet offsite across Highway 67 and past Woodside Avenue North. The MTBE plume, with concentrations of up to 1,700 µg/l extends much like the benzene plume except that it is narrower and extends further. A separate MTBE plume with concentrations of up to 2,600 µg/l is located along the mid-northeast property line.

Figures 13 (site only) and 14 (on and offsite) display TPHg and TPHd results along with indicated concentration contours. TPHg and TPHd concentrations of at least 1,000 µg/l and up to 2,100,000 µg/l extend virtually across the entire site then approximately 130 feet offsite across Highway 67 and past Woodside Avenue North.

3.7 Chromatograph Data

EnecoTech reviewed chromatographs produced as a result of gas chromatograph analysis for TPHg and TPHd by EPA Method 8015. It was hoped that comparison of the data over time could possibly shed light on: 1) products released; 2) approximate release dates; 3) source of releases (tanks and/or product piping involved); 4) distribution of separate products; and 5) commingling of products. The chromatographs reviewed are included in Appendix F.

There are difficulties involved in comparing chromatographs of the analyses with chromatograph standards. These include variations in the sample run pace and length, graph scale, and presentation software used. All this makes a side-by-side comparison difficult. In addition, many of the constituents are very similar, and when the fact is added that weathering of the constituent begins upon release and changes the chromatograph shape, peaks, and magnitudes, the comparison of chromatographs to identify specific petroleum hydrocarbon products is at best qualitative and of limited usefulness. Also, while it is not usually difficult to identify the difference between gasoline and diesel, it is much more difficult to identify between similar products (e.g. diesel and kerosene). The chromatographs listed below were compared against standards. All were compared against 13 petroleum hydrocarbon standards provided by

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Del Mar Analytical except for the most recent assessment data, which was compared against standards produced by HP Labs, Inc.

Soil
The first data set with available chromatographs is from the 1997 removal of product piping (Event 2 in Section 3.2.3). The chromatographs appear to indicate the presence of gasoline and diesel in 5 samples, diesel only in 4 samples, and neither in 1 sample. These results are not surprising since the product piping removed was predominately identified as carrying diesel (Appendix F, Tables F-1). The next data set reviewed is from the removal of nine USTs in 1998 (Event 3 in section 3.2.3). Gasoline was found in one sample, gasoline and diesel in two samples, and diesel only in ten samples. Many of the gasoline and diesel-range results indicated that the chromatograph did not match the associated standard well. Five samples indicated the presence of 'Other' in combination with gasoline and/or diesel and indicated that the chromatograph did not match any available standards (Appendix F, Table F-1). Data from the 2002 installation of MW8 was also reviewed. The chromatographs indicate samples have a combination of gasoline and diesel (Appendix F, Table F-2). The last soil data comparison was of the most recent boring data from December 2002. Gasoline, weathered gasoline, diesel #1, and diesel #2 were all identified as major or minor components, predominately in combinations (Appendix F, Table F-3).

Groundwater
Groundwater samples from April 2002 were evaluated and found to contain gasoline and diesel (Appendix F, Tables F-2). Samples from the recent temporary wells were reviewed and indicate a combination of gasoline and diesel (Appendix F, Tables F-3).

Product
Free floating product samples collected from the monitoring wells in April 2002 and the temporary wells in December 2002 were highly diluted and analyzed. These chromatographs indicate weathered gasoline, diesel #1, and diesel #2 (Appendix F, Table F-3). The presence of well-weathered gasoline and diesel #1 (not sold onsite for some time) indicates that these product releases occurred some time ago.

4.0 SUMMARY OF FINDINGS AND DISCUSSION

Previous Assessments

Soil impact has been found to exist over much of the site as USTs and product piping have been removed and assessment borings placed. The initial 1988 assessment of eleven borings did not indicate high levels of refined petroleum product constituents, but rather values well below those indicated during the later 1988 removal of four USTs. Soil samples taken during the removal of product piping and nine additional USTs indicated high values for gasoline and diesel. Soil samples taken during the 2002 installation of three borings/wells indicate relatively high values for gasoline, benzene, and MTBE given that the locations of the borings were relatively far from current USTs, product piping, and dispensers and from previously removed USTs. Also, the indicated vertical extent of soil impact in MW8 (33 to 38.5 feet bgs) was unexpected considering the distance from known or potential sources and may be the result of variations in the groundwater table in the area.

Groundwater impact during 1988 was light in monitoring wells MW1 through MW4. Since then, concentrations have increased dramatically in those four wells. Concentrations in MW5 through MW8 are also high.

Free Floating Product
Free product was previously identified in monitoring wells MW2, MW3, MW4, and MW5.

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Geology, Hydrogeology, and Wells

The site is located in a hydrologic unit identified as having existing beneficial use of groundwater for municipal, agricultural, and industrial purposes. Surface water in the area also has existing beneficial use for industrial purposes and potential use for municipal purposes. The unconfined, unconsolidated aquifer associated with the San Diego River valley is utilized for limited domestic, agricultural, and industrial demands. The San Diego River is located approximately 850 feet northwest of the site. The only drinking water/industrial well identified within 2,250 feet of the site is approximately 0.2-mile up gradient of the subject site.

Releases, Plumes, and Sources

Historically USTs on site have stored various grades of gasoline, various grades of diesel, kerosene, waste oil, weed oil, and solvent (mineral spirits). Historically, ASTs onsite have stored various grades of diesel, kerosene, solvent (mineral spirits), various grades of fresh motor oil, fresh hydraulic fluid, stove oil, propane, and racing gasoline kept for a short period in two Convault-type tanks with no associated product piping. There have been three events of UST and/or product piping removal. Currently, there are 2 USTs onsite (one with 4 compartment), but previously there were 13 other USTs. Releases identified by soil samples taken at the time of removal and observations of holes and product piping leaks made by regulatory personnel are for tanks that mainly held gasoline and diesel, with soil samples indicating up to 3,043 mg/kg gasoline and 115,444 mg/kg diesel.

According to the records, many problems have been experienced with the USTs onsite. These include holes, product piping leaks, odors in the pits, and soil samples indicating releases. Any tank is a valuable resource at a bulk facility. The fact that the four tanks removed in 1988 were used, almost up until the time they were removed, and that the products they stored had to be replaced with other equipment, provides strong indirect evidence of probable ongoing leaks. Leaks may have been suspected by the operator, contributing to the decision to remove the tanks. The quantity of UST releases that have taken place onsite is unknown. The dates of UST releases are also unknown.

Currently, there are 18 ASTs onsite, two of which held racing gasoline for a short time, but are now not being used. One propane AST was previously removed. Of the 18 ASTs, all are single-walled steel, except for three Convault-type tanks, two of which are mentioned above as having held gasoline for a short period. The third has held solvent and waste oil. Tank A-1 through A-6 and A-12 through A-14 have product piping limited to the eastern third of the site. Tank A-23 holds propane. The rest of the ASTs have no below ground product piping. According to the records, no AST (except the two small Convault-type tanks with no associated product piping) has ever held gasoline onsite. Also, no field report of any release from an AST or associated product piping was found. There is an informal vague phone note indicating that a kerosene release had taken place, but no tank type or ID, location, or quantity is given. It is unclear whether the release was from a UST, AST, or truck during offloading. EnecoTech does not deem the phoned-in report to be reliable in that it was apparently made in a time of duress, the reporter does not now recall it, and there was no apparent follow up by the reporter or HMMD/SAM. The only tanks indicated in Table B-1 to have held kerosene are two USTs (RU-3 and RU-8), and one AST (A-12). No report identifying a direct release of product from an AST or AST product piping has ever been reported. Any sizable AST release would be expected to have been report by the operator, reported by responding DEH personnel, and would leave staining or left over evidence. Interviewees also confirmed that none of the ASTs onsite ever held gasoline and that the Santee Fire Department has never would not allow gasoline in ASTs.

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Soil benzene impact up to 20 mg/kg exists in the southwestern portion of the property. MTBE of up to 1.4 mg/kg exists in the same general area. TPHg and TPHd concentrations up to 11,000 mg/kg and 24,000 mg/kg, respectively, with associated plumes extend from the western half of the site and across Highway 67 to beyond Woodside Avenue North. The soil impact throughout is confined to a relatively thin vertical horizon in the subsurface just at or just below the current groundwater level. Dispersion of impact through soil appears to be influenced by groundwater flow, but not notably influenced by the utility pathways identified.

Historical depths to groundwater have ranged from 27 feet to 32 feet bgs. The indicated direction of groundwater flow is southwest. Free product gasoline was present in four temporary wells and three monitoring wells located in the middle southern portion (4), the front dispenser area (2), and the middle northeastern property line (1). Benzene concentrations in groundwater of at least 100 µg/l and up to 13,000 µg/l constitute a plume that extends across the western half of the site, then approximately 140 feet offsite. The MTBE plume, with concentrations of up to 1,700 µg/l extends much like the benzene plume except that it is narrower and extends further. A separate MTBE plume is located along the mid-northeast property line. TPHg and TPHd concentrations of at least 1,000 µg/l and up to 2,100,000 µg/l extend virtually across the entire site, then approximately 130 feet offsite across Highway 67 and past Woodside Avenue North.

The chromatograph data indicates diesel and gasoline in soil samples taken from below UST product piping; diesel, gasoline and 'Other' in soil samples taken below 9 USTs removed; gasoline and diesel in soil samples from MW8; and, gasoline, weathered gasoline, diesel #1, and diesel #2 in the soil samples from the most recent fieldwork. Groundwater samples from the monitoring indicate gasoline and diesel, and from temporary wells indicate gasoline, weathered gasoline, diesel #1, and diesel #2. Free product samples indicate weathered gasoline, diesel #1, and diesel #2.

The site has significant impact to both soil and groundwater. The impact to both also extends offsite and past MW8. The main contaminants of concern are benzene and MTBE; however, high levels of other gasoline constituents and diesel also exist. The primary Maximum Contaminant Level (MCL) for benzene is exceeded in each well.

Exposure Concerns

The release of petroleum products (predominately gasoline and diesel) from the UST fueling systems at the subject site has impacted groundwater underlying and down gradient of the site. Groundwater gradient flows 0.004 to 0.001 to the southwest. The San Diego River is located approximately 850 feet west of the site. Groundwater impact has migrated offsite and has not been fully delineated southwest or west of the site, but extends beyond Woodside Avenue North and within 550 feet up gradient of the San Diego River. The San Diego River is designated as having potential beneficial municipal use and existing industrial, contact recreational, non-contact recreational, warm freshwater habitat, cold freshwater habitat, wildlife habitat, and rare wildlife habitat use. It is not known if the impacted groundwater plume has impacted the San Diego River. If it does, the plume could impact plant and animal life associated with the river's ecosystem.

Based on conversations with SAM, the constituents of greatest concern are benzene and MTBE, both constituents of gasoline. Benzene is of concern because it is a carcinogen and has been assigned a MCL in drinking water of 1.0 µg/l. MTBE is of concern due to its resistance to breakdown from natural and biological action and its adverse taste and odor, and has been assigned a default MCL in drinking water of 13.0 µg/l. The concentrations onsite, and even far offsite, far exceed these MCLs. It is known that the dissolved constituents of gasoline are transported by groundwater down gradient from their source. The process of advection-dispersion dictates that, as contaminants migrate from the source(s), the concentrations decrease until they reach a distance at which they are no longer detectable. MTBE is known to be more mobile in groundwater, and therefore migrates down gradient at a greater rate than the

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other components of gasoline. No individual or public use drinking, agricultural, or industrial wells were found through research or field observations within the plume area. The only well found within the 2,250-foot SAM-proscribed search radius is located 0.2 mile up gradient and appears to be for a single residence. This well is not considered to be at risk since the demand from the well is probably low and the groundwater impact plume does not appear to extend far, if at all, up gradient. The wells used by Riverview Water District have already been impacted by a UST release from another site. These wells are not considered to be at risk since the nearest one is approximately 3,600 feet northeast (cross gradient) of the subject site. Also, even though these wells were in operation when the impacted groundwater plume from the site no doubt already existed, the plume does not appear to be drawn towards these production wells at all (Figure 5), indicating no perceivable influence on the plume from the pumping of these wells. Until source and plume reduction takes place though, any new wells in the plume or even in the vicinity of the plume would likely be impacted by the contamination in the groundwater.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Source and Type of Impact

The highest concentrations of benzene, MTBE, and TPHg impact in the soil are centered in the southwestern and southern portions of the site. These areas coincide with USTs and their associated product piping that formerly existed and which, for the most part, provided evidence of leakage when removed. The source of this impact is from USTs, in that ASTs (with the exception of two Convault-type tanks for a short interval) have not held gasoline onsite. All the data indicates that the removed USTs and their associated product piping are the source of this impact. There is no reliable evidence of an AST release ever taking place. All the impact onsite could have conceivably come from USTs only.

OLD RELEASE

The highest concentrations of TPHd impact in the soil are centered in middle-southern portion of the site. This area coincides with USTs and their associated product piping that formally existed and which, for the most part, provided evidence of leakage when removed. All the data indicates that the removed UST's and their associated product piping are the source of this impact.

Concentrations of all of these constituents in groundwater appear to predominately emanate from the soil sources identified above. One exception is the separate MTBE centered around MW2 and B18, which has no obvious soil source. Since the probability of any gasoline constituent coming from an AST has been eliminated, the only known possible source is the new 4-compartment tank and associated product piping which delivers gasoline to the dispensers in the back of the site.

NEW VAPOR RELEASE

Free product onsite also appears to be the result of UST or associated product piping releases, with the product in B3, B4, and B17 apparently attributed to the 6 USTs located in that area and possibly the product piping of the 4 diesel USTs that were located in the rear of the property. The product in B13 and MW4 appears to be attributable to the front dispensers or product piping. The only known possible source for the product in MW2 is the new 4-compartment tank and associated product piping which delivers gasoline to the dispensers in the back of the site.

OLD RELEASE

The level and extent of impact in groundwater is significant and over a large area. The impact to soil is significant, but benzene and MTBE concentrations appear to be low to account for the concentrations found in groundwater. There remains a probability that additional 'hot spots' exist onsite that were not encountered by the borings placed. Any remediation attempt would not be successful without dealing with the sources, therefore groundwater impact needs to be remediated in concert with soil source reduction. Groundwater concentrations are significant considering that the site is in a designated beneficial use area, there are municipal production wells within one mile, and the San Diego River is approximately 850 feet away. EnecoTech envisions a remediation system consisting of active vapor extraction, air sparging of the groundwater, and groundwater extraction. The purpose of the groundwater

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extraction would include attempting to control the spread of the impact plume, enhancing vapor extraction by exposing gasoline and diesel currently below the groundwater table, and recovering impacted groundwater. The groundwater would probably be treated by air stripping prior to discharge.

Based on the findings of the site assessment efforts with increased weight applied to the more recent data, EnecoTech recommends the following:

Complete Phase 2

Phase 2 of the approved work plan involves the placement of permanent monitoring wells, sampling of all monitoring wells, and preparation of a report. EnecoTech's modified recommendations for placement of the wells will be provided to SAM under separate cover.

Vapor Extraction Pilot Test

A vapor extraction pilot test would be performed in order to evaluate the overall feasibility of vapor extraction for the site, initial and subsequent vapor concentrations and makeup, areas of high vapor concentrations for placement of vapor extraction wells, and suitable sizing and vapor treatment technology for the site.

Design Remediation System and Submit RAP

Assuming that the vapor extraction is feasible for the site, EnecoTech will design and develop costs for a suitable remediation system. A Remedial Action Plan (RAP) will be prepared and submitted to SAM for comment and approval.

Fund Pre-Approval, Permitting, Installation of Remediation System, Start up, and Operation

Once SAM approval of the RAP has been obtained, EnecoTech will prepare and submit a pre-approval to the Fund. Upon pre-approval, permits will be obtained and the remediation system will be installed, started up, and operated until site conditions indicate that the intentions of the system have been achieved and SAM concurs with the decision to discontinue operation.

Additional Delineation

Additional delineation may be needed even after the wells of Phase 2 are installed and sampled. Additional site assessment efforts that may be needed include: placement of borings/wells on the adjacent property to the south, placement of wells to the west and southwest, and placement of additional wells within the plume to monitor plume response better.

6.0 REFERENCES

California Regional Water Quality Control Board, San Diego Region, September 8, 1994, Water Quality Control Plan for the San Diego Basin (9).

EnecoTech Inc., August 3, 1988, Environmental Assessment at 11427 Woodside Avenue, Santee, California.

EnecoTech Inc., June 21, 2002, Additional Site Assessment, WP, 11427 Woodside Avenue, Santee, California.

Kennedy, M.P. and Peterson, G.L., 1977, Geology of the San Diego Metropolitan Area: California Division of Mines and Geology, Bulletin 200.

United States Geological Survey, 1929, photo-revised 1975, El Cajon Quadrangle, California, San Diego County, 7.5 Minute Series (Topographic).

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FIGURES

1a Site Location Map
1b Wells in Area
2 Site Plan with Utilities
3 Area Plan
4 Tank and Product Piping Locations and Soil Laboratory Results from Removals
5 Groundwater Elevations (12/2002)
6 Soil Concentrations Benzene and MTBE
7 Soil Concentrations Benzene and MTBE
8 Soil Concentrations TPHg and TPHd
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10 Cross Sections
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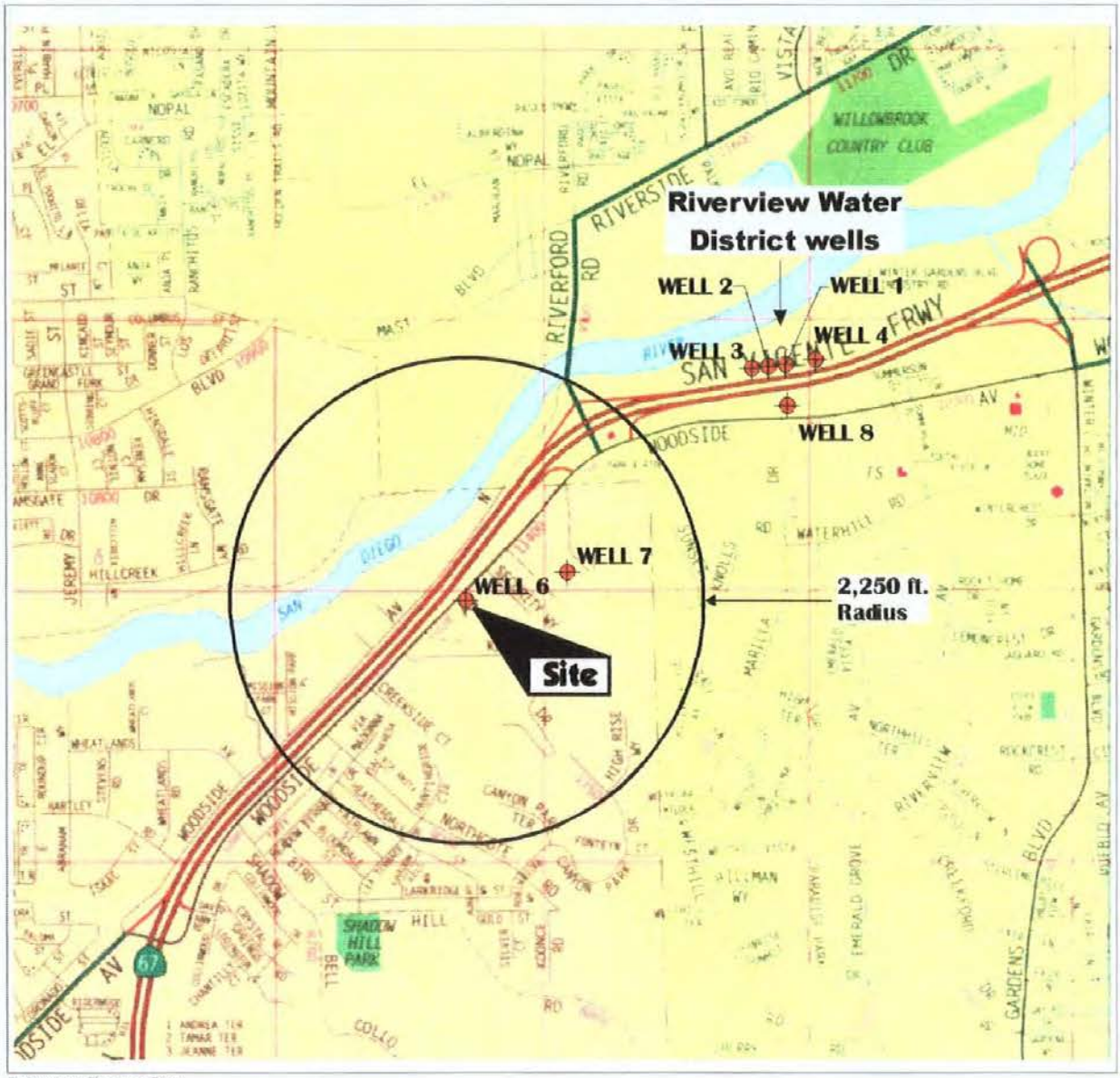
WIGINGTON

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

SITE LOCATION MAP

File No.:	ACAD File No.:	Date:	Rev.:
02-01686-001	FIG1	5/2002	

Drawn By:	Design By:	Checked By:	Approved By:	Figure. No.:
		MJG	MJG	1A



Reference Thomas Bros.

0 .25 .5 .75 MILES
0 .5 1.0 KILOMETERS

LEGEND

⊕ - WELL LOCATION

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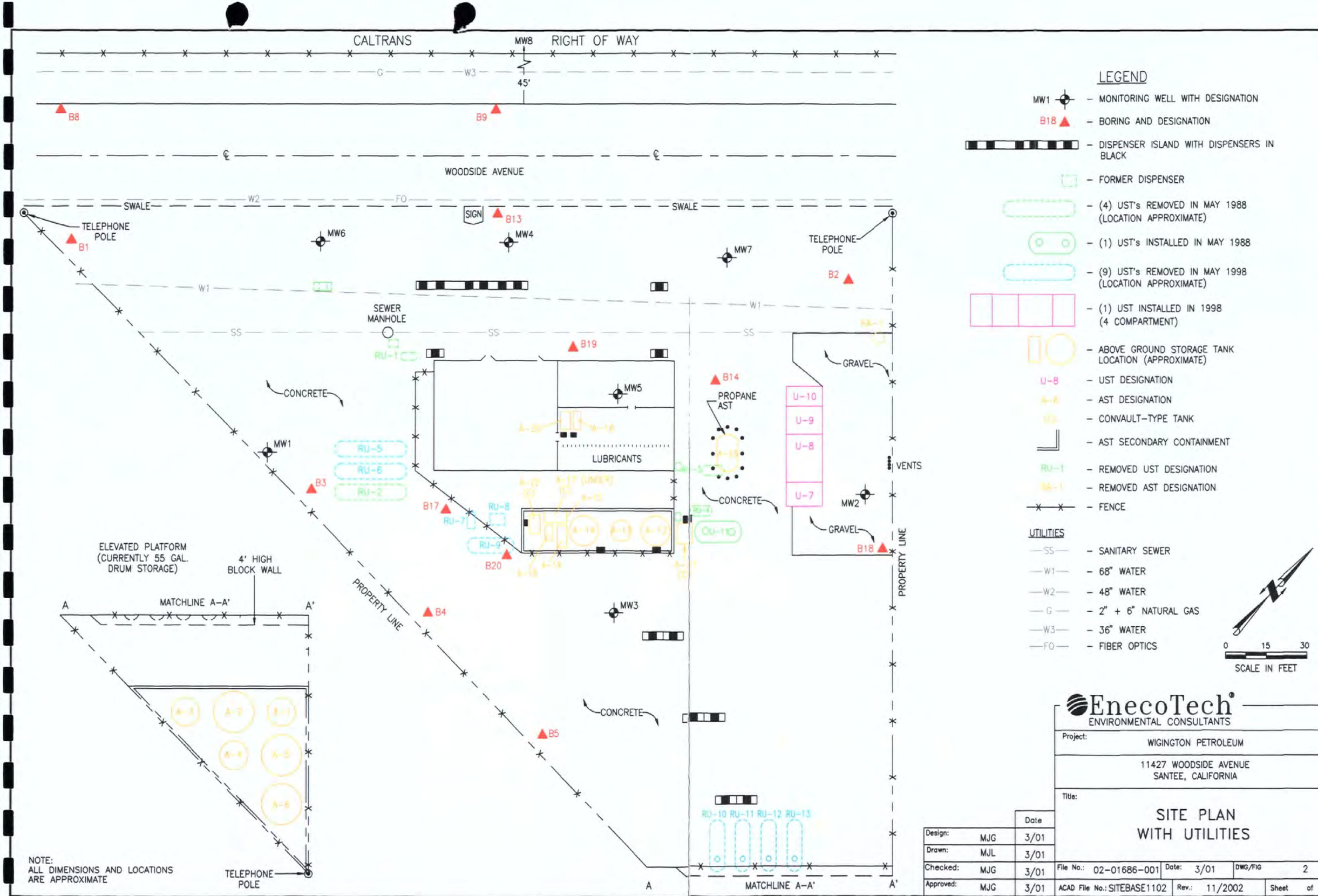
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WELLS IN AREA

File No.:	ACAD File No.:	Date:	Rev.:
02-01686-001	RADFIG1B	2/2003	

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		MJG	MJG	1B



LEGEND

- MW1 – MONITORING WELL WITH DESIGNATION
- B18 – BORING AND DESIGNATION
- – DISPENSER ISLAND WITH DISPENSERS IN BLACK
- – FORMER DISPENSER
- – (4) UST's REMOVED IN MAY 1988 (LOCATION APPROXIMATE)
- – (1) UST's INSTALLED IN MAY 1988
- – (9) UST's REMOVED IN MAY 1998 (LOCATION APPROXIMATE)
- – (1) UST INSTALLED IN 1998 (4 COMPARTMENT)
- – ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- U-8 – UST DESIGNATION
- A-# – AST DESIGNATION
- V-# – CONVAULT-TYPE TANK
- – AST SECONDARY CONTAINMENT
- RU-1 – REMOVED UST DESIGNATION
- RA-1 – REMOVED AST DESIGNATION
- – FENCE

UTILITIES

- SS – SANITARY SEWER
- W1 – 68" WATER
- W2 – 48" WATER
- G – 2" + 6" NATURAL GAS
- W3 – 36" WATER
- FO – FIBER OPTICS

0 15 30
SCALE IN FEET

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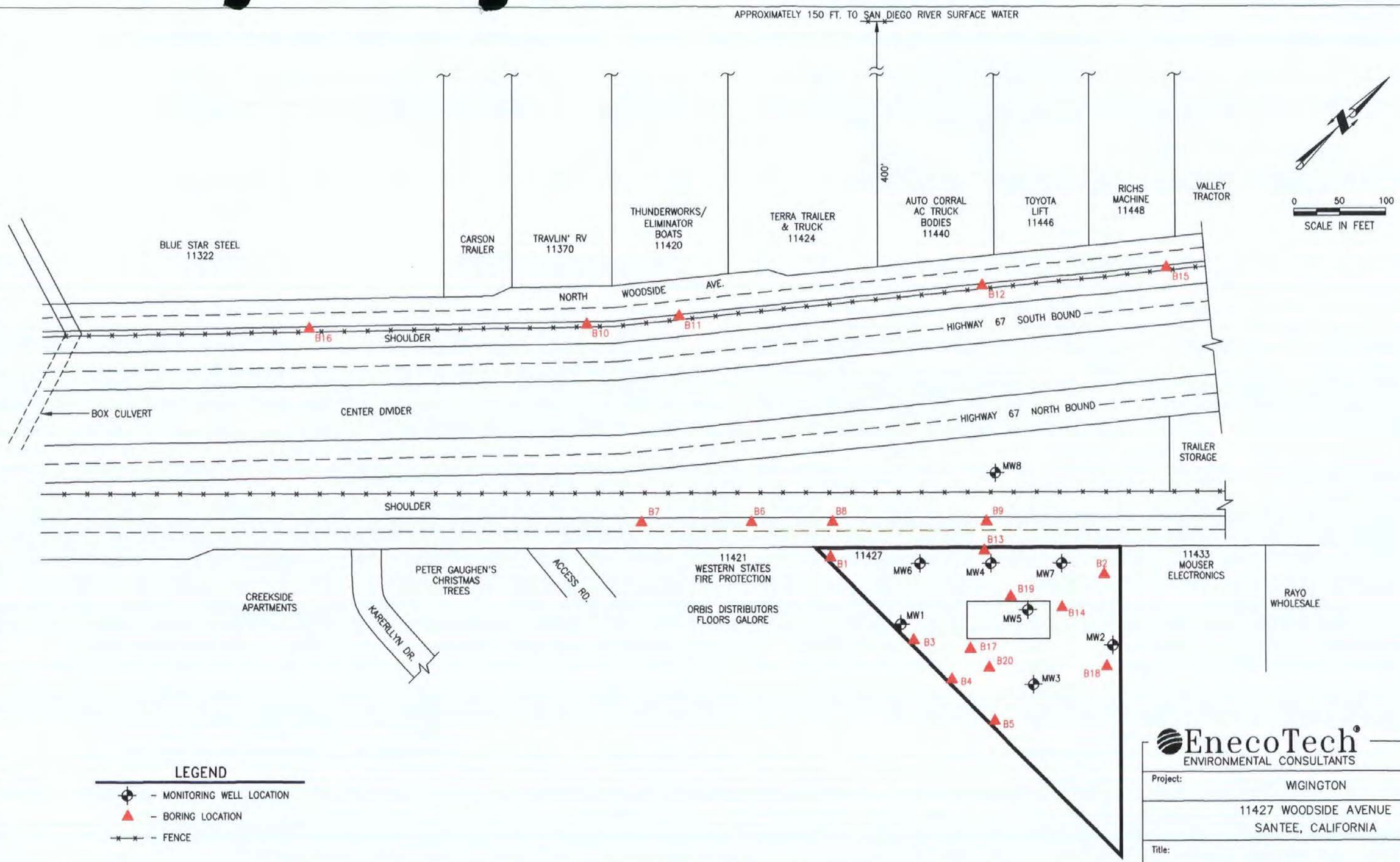
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SITE PLAN WITH UTILITIES

		Date
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Drawn:	MJL	3/01
Checked:	MJG	3/01
Approved:	MJG	3/01

File No.: 02-01686-001 | Date: 3/01 | DWG/FIG 2

ACAD File No.: SITEBASE1102 | Rev.: 11/2002 | Sheet of



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Title: AREA PLAN

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Checked:	MJG	12/02
Approved:	MJG	12/02

File No.: 02-01686-001 | Date: 12/2002 | 3

ACAD File No.: AREAMAP1202 | Rev.: | Sheet of

CALTRANS RIGHT OF WAY

MW8

G W3

45'

B8 B9

WOODSIDE AVENUE

SWALE W2 FO SWALE

SIGN B13

TELEPHONE POLE B1

TELEPHONE POLE B2

MW6 MW4 MW7

P9 (3,043, 5,759) P8 (2,279 10,632) P5 (65, 3,025) P6 (136, 6,624) P4 (30, 9,584) P3 (<10, <10) P2 (175, 21,218) P1 (43, 9,799)

3/4 5/6 7/8 9/10 11/12 13/14 15/16

1?/2?

W1

SEWER MANHOLE

P10 (224 115,444)

SS

3S 15S

B19

DISPENSER ELECTRIC

(G) (K) (M) (P) (D)

MW5

P7 (467,13,372)

T5-E-6.3' (260) T5-W-6' (5,900)

P1-4.0' (<10, 370)

LUBRICANTS

B14

PROPANE AST

U-10 (D) U-9 (G) U-8 (D) U-7 (G)

GRAVEL

CONCRETE

VENTS

MW2

PROPERTY LINE

B18

MW1

RU-5 (G) RU-6 (D) RU-2 (G,D)

B3

T1-1-15.5' (<10,<10) T1-2-15' (400,2,000) T2-1-14' (<10,11) T2-2-16' (<10,<10)

ELEVATED PLATFORM (CURRENTLY 55 GAL. DRUM STORAGE)

B17

RU-7 (W) RU-8 (M,G)

(K,M,W) (S,K,D) (S,D) (S,W) (D) (G) (M)

T3-6.4' (4,300)

B20

T4-10' (820, <10)

17

B4

MW3

20/19 18/17

CONCRETE

T6-E-16' (<10, 1,100) T6-W-16.5' (<10, 1,800) T7-E-16' (<10, 800) T7-W-16' (<10, 23,000) T8-E-16' (<10, 25) T8-W-16' (<10, 1,900) T9-E-15.5' (<10, 30) T9-W-17' (<10, 4,200)

23/22 18S/21

B5

25/24 21S

RU-10 RU-11 RU-12 RU-13

(D) (D) (D) (D)

MATCHLINE A–A'

A A'

4' HIGH BLOCK WALL

(O) (H) (O) (O) (D) (D)

TELEPHONE POLE

NOTE:
ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

LEGEND

- MW1 – MONITORING WELL WITH DESIGNATION
- B18 – BORING AND DESIGNATION
- 3/4 – DISPENSER ISLAND WITH DISPENSERS IN BLACK
- – FORMER DISPENSER
- – (4) UST's REMOVED IN MAY 1988 (LOCATION APPROXIMATE)
- – (1) UST's INSTALLED IN MAY 1988
- – (9) UST's REMOVED IN MAY 1998 (LOCATION APPROXIMATE)
- – (1) UST INSTALLED IN 1998 (4 COMPARTMENT)
- – ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- U-8 – UST DESIGNATION
- A-6 – AST DESIGNATION
- – CONVAULT–TYPE TANK
- – AST SECONDARY CONTAINMENT
- RU-1 – REMOVED UST DESIGNATION
- RA-1 – REMOVED AST DESIGNATION
- – FENCE

UTILITIES

- SS – SANITARY SEWER
- W1 – 68" WATER
- W2 – 48" WATER
- G – 2" + 6" NATURAL GAS
- W3 – 36" WATER
- FO – FIBER OPTICS

PRODUCT LINES

- – GASOLINE
- – DIESEL

REMOVED SAMPLES (mg/kg)

- T1 TANK REMOVAL SAMPLE
- P1 REMOVED PRODUCT LINE SAMPLE
- 175 TPHg
- 370 TPHd
- 260 TRPH

G – GASOLINE
D – DIESEL
K – KEROSINE
M – MINERAL SPIRITS (SOLVENT)
W – WASTE OIL
O – FRESH OIL
H – HYDRAULIC FLUID
S – STOVE OIL
P – PROPANE

0 15 30
SCALE IN FEET

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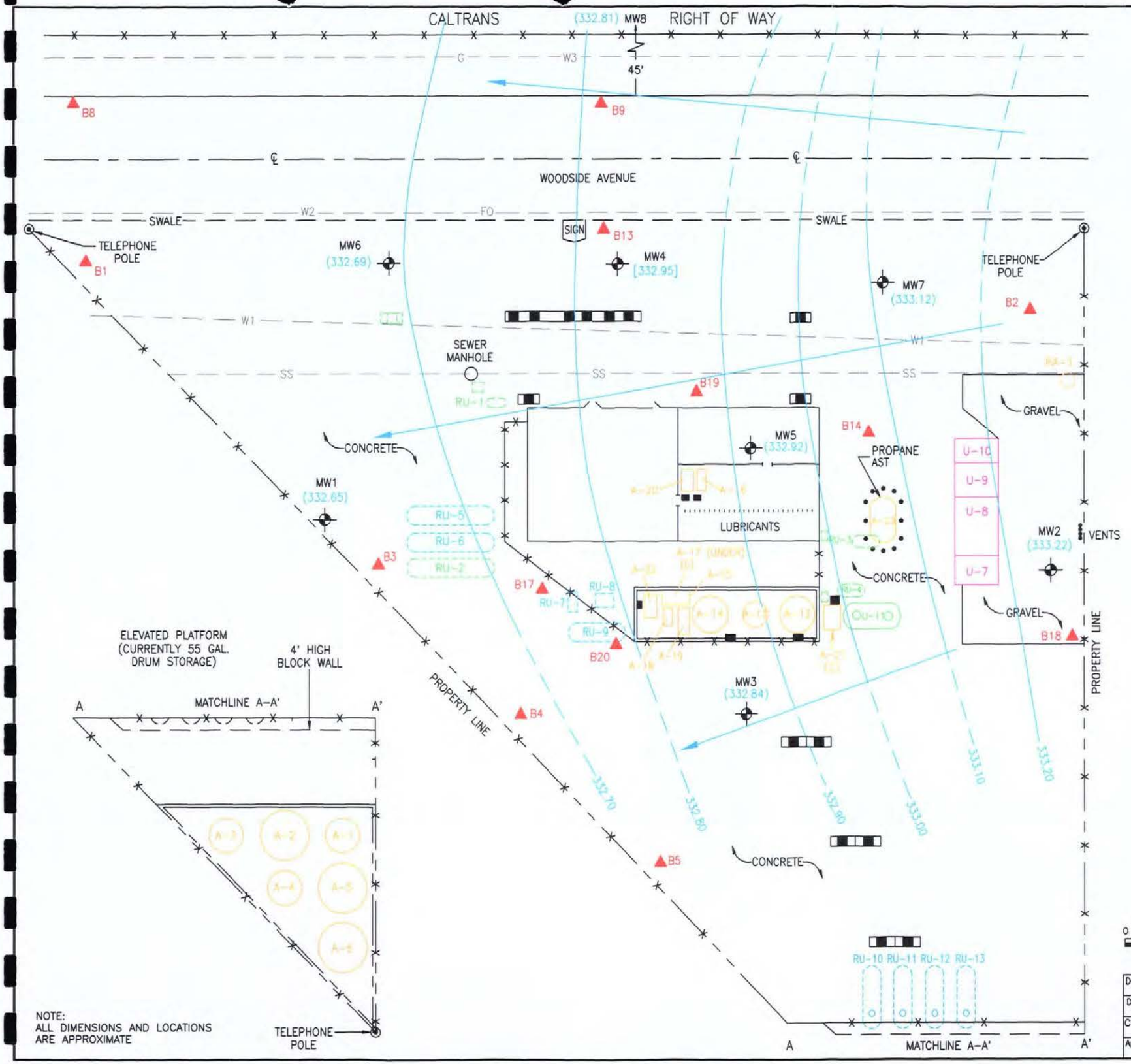
Project: WIGINGTON PETROLEUM

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: TANK AND PRODUCT PIPING LOCATIONS AND SOIL LABORATORY RESULTS FROM REMOVALS

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Design:	MJG	3/01
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Approved:	MJG	3/01

File No.: 02-01686-001 Date: 3/01 DWG/FIG 4
ACAD File No.: PIPE1102 Rev.: 11/2002 Sheet of



LEGEND

- MW1 – MONITORING WELL WITH DESIGNATION
- B18 – BORING AND DESIGNATION
- – DISPENSER ISLAND WITH DISPENSERS IN BLACK
- – FORMER DISPENSER
- – (4) UST's REMOVED IN MAY 1988 (LOCATION APPROXIMATE)
- – (1) UST's INSTALLED IN MAY 1988
- – (9) UST's REMOVED IN MAY 1998 (LOCATION APPROXIMATE)
- – (1) UST INSTALLED IN 1998 (4 COMPARTMENT)
- – ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- U-8 – UST DESIGNATION
- A-6 – AST DESIGNATION
- (U) – CONVAULT-TYPE TANK
- – AST SECONDARY CONTAINMENT
- RU-1 – REMOVED UST DESIGNATION
- RA-1 – REMOVED AST DESIGNATION
- – FENCE

UTILITIES

- SS – SANITARY SEWER
- W1 – 68" WATER
- W2 – 48" WATER
- G – 2" + 6" NATURAL GAS
- W3 – 36" WATER
- FO – FIBER OPTICS
- 333.20 – GROUNDWATER ELEVATION CONTOUR
- (333.12) – GROUNDWATER ELEVATION
- [332.95] – GROUNDWATER ELEVATION NOT USED IN CONTOURING
- – DIRECTION OF GROUNDWATER FLOW

0 15 30
SCALE IN FEET

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Approved:	MJG	1/03

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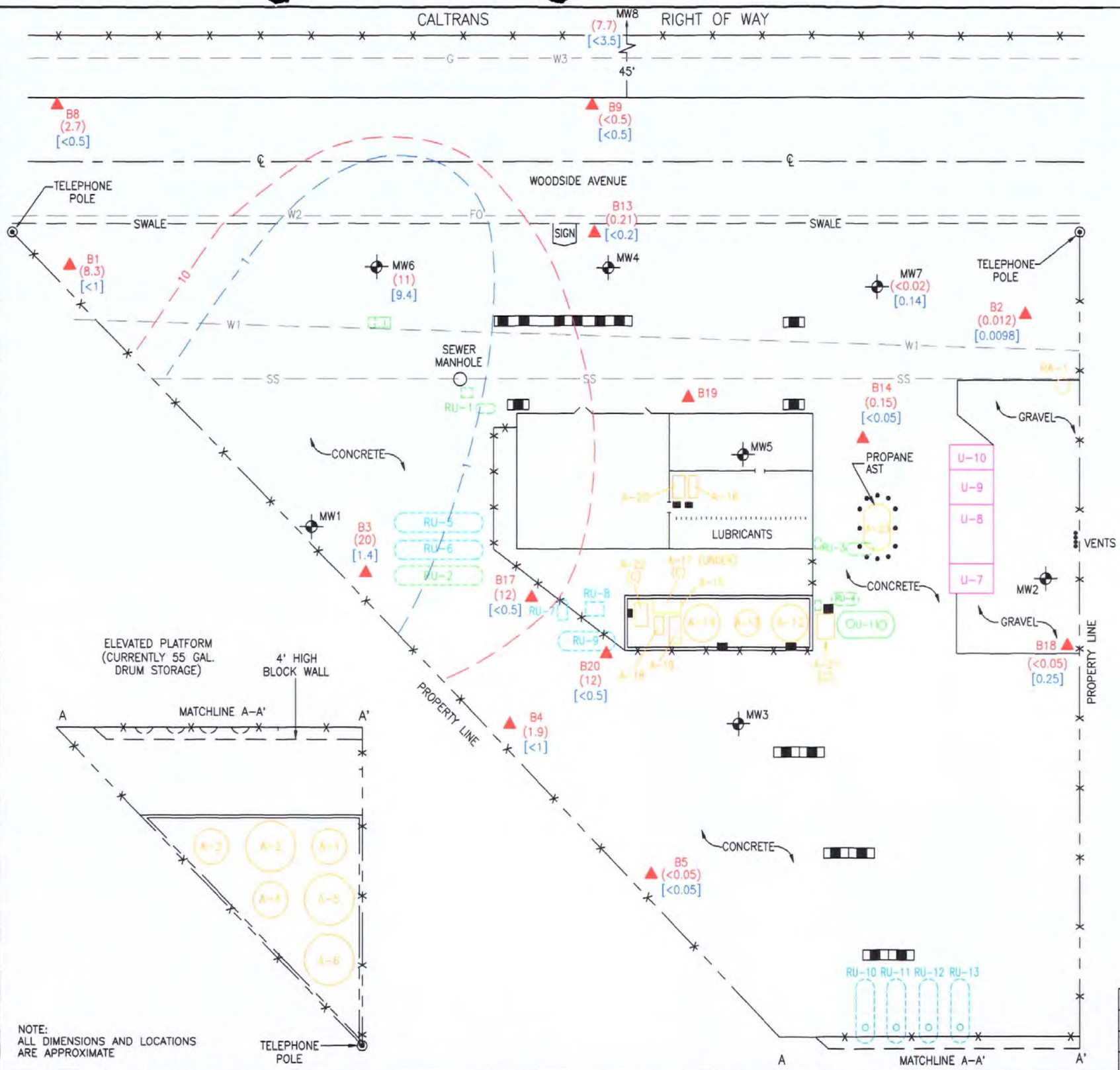
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11427 WOODSIDE AVENUE
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Title:

GROUNDWATER ELEVATIONS (12/2002)

File No.: 02-01686-001	Date: 3/01	DWG/FIG	5		
ACAD File No.: GW1202	Rev.: 1/2003	Sheet	of		



LEGEND

- MW1 – MONITORING WELL WITH DESIGNATION
- B18 – BORING AND DESIGNATION
- – DISPENSER ISLAND WITH DISPENSERS IN BLACK
- – FORMER DISPENSER
- – (4) UST's REMOVED IN MAY 1988 (LOCATION APPROXIMATE)
- – (1) UST's INSTALLED IN MAY 1988
- – (9) UST's REMOVED IN MAY 1998 (LOCATION APPROXIMATE)
- – (1) UST INSTALLED IN 1998 (4 COMPARTMENT)
- – ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- U-8 – UST DESIGNATION
- A-E – AST DESIGNATION
- (C) – CONVAULT-TYPE TANK
- – AST SECONDARY CONTAINMENT
- RU-1 – REMOVED UST DESIGNATION
- RA-1 – REMOVED AST DESIGNATION
- – FENCE

UTILITIES

- —SS— – SANITARY SEWER
- —W1— – 68" WATER
- —W2— – 48" WATER
- — G — – 2" + 6" NATURAL GAS
- —W3— – 36" WATER
- —FO— – FIBER OPTICS
- (<0.5) – BENZENE IN mg/kg
- [<0.5] – MTBE IN mg/kg
- 10 – BENZENE CONTOUR
- 1 – MTBE CONTOUR

(CONTOURS QUERRIED WHERE INFERRED)

0 15 30
SCALE IN FEET

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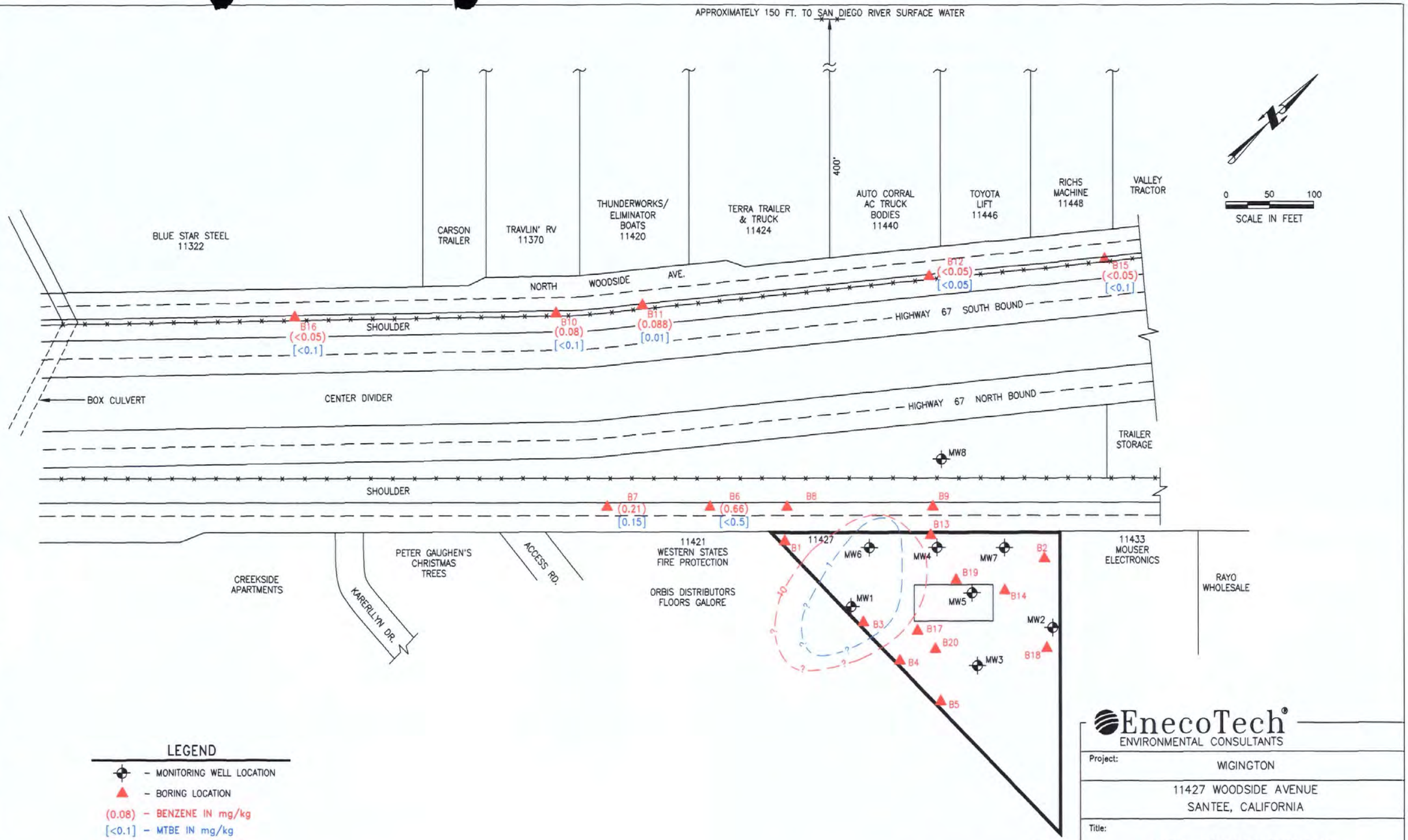
11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title:

SOIL CONCENTRATIONS BENZENE AND MTBE

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Approved:	MJG	3/01

File No.: 02-01686-001 | Date: 3/01 | DWG/FIG 6
ACAD File No.: SOIL1102 | Rev.: 11/2002 | Sheet of



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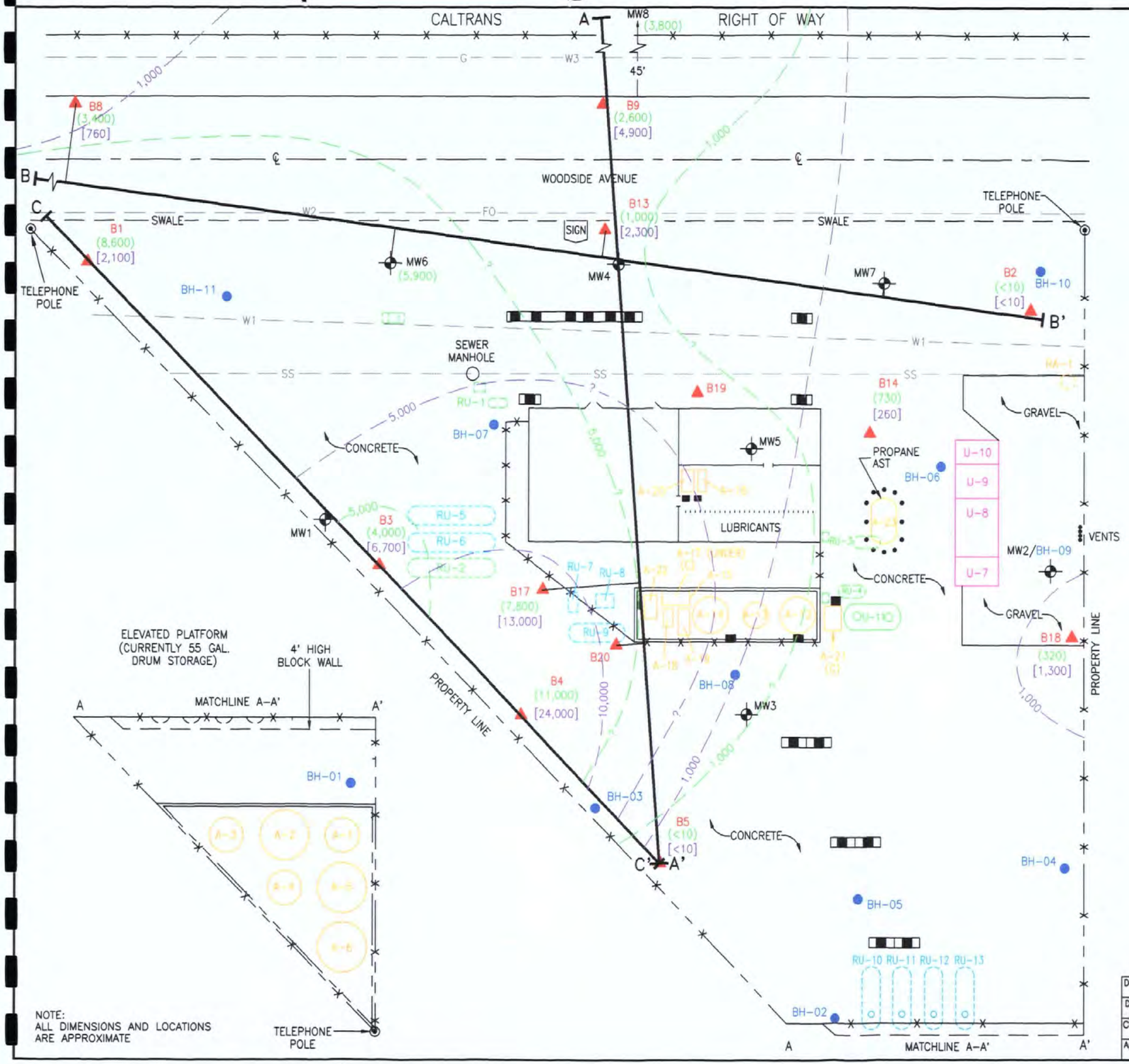
11427 WOODSIDE AVENUE
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Title:

SOIL CONCENTRATIONS BENZENE AND MTBE

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Approved:	MJG	12/02

File No.: 02-01686-001 | Date: 12/2002 | 7
ACAD File No.: BEMT1102 | Rev.: | Sheet of



LEGEND

- MW1 – MONITORING WELL WITH DESIGNATION
- B18 – BORING AND DESIGNATION
- BH-10 – BOREHOLE AND DESIGNATION
- – DISPENSER ISLAND WITH DISPENSERS IN BLACK
- – FORMER DISPENSER
- – (4) UST's REMOVED IN MAY 1988 (LOCATION APPROXIMATE)
- – (1) UST's INSTALLED IN MAY 1988
- – (9) UST's REMOVED IN MAY 1998 (LOCATION APPROXIMATE)
- – (1) UST INSTALLED IN 1998 (4 COMPARTMENT)
- – ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- U-8 – UST DESIGNATION
- A-4 – AST DESIGNATION
- – CONVAULT-TYPE TANK
- – AST SECONDARY CONTAINMENT
- RU-1 – REMOVED UST DESIGNATION
- RA-1 – REMOVED AST DESIGNATION
- – FENCE

UTILITIES

- SS – SANITARY SEWER
- W1 – 68" WATER
- W2 – 48" WATER
- G – 2" + 6" NATURAL GAS
- W3 – 36" WATER
- FO – FIBER OPTICS
- (320) – TPHg IN mg/kg
- [1,300] – TPHd IN mg/kg
- 10 – TPHg CONTOUR
- 1 – TPHd CONTOUR

(CONTOURS QUERRIED WHERE INFERRED)

A – A' – LINE OF CROSS SECTION

0 15 30
SCALE IN FEET

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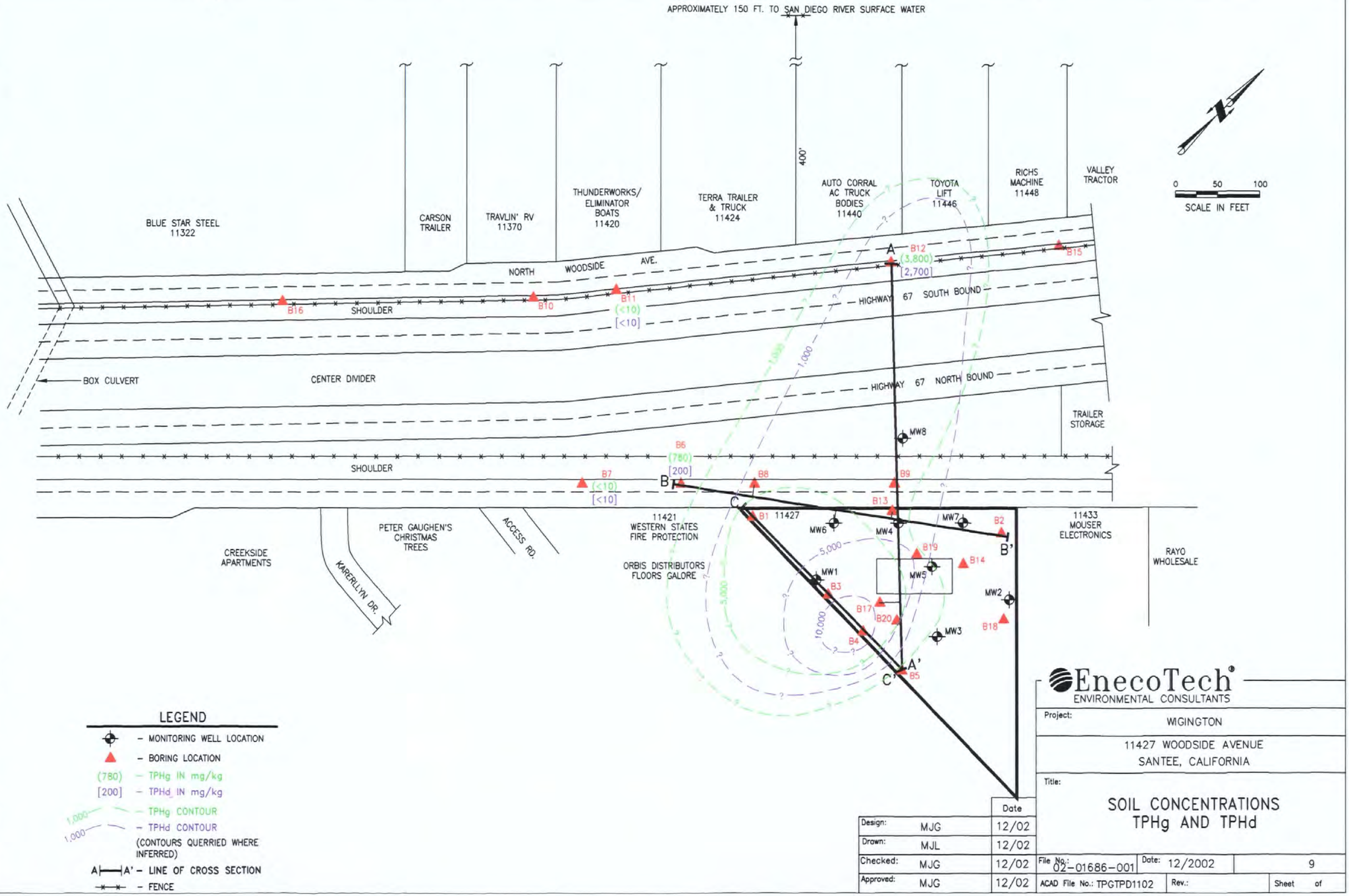
11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title:

SOIL CONCENTRATIONS TPHg AND TPHd

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Checked:	MJG	3/01
Approved:	MJG	3/01

File No.: 02-01686-001 | Date: 3/01 | DWG/FIG 8
ACAD File No.: TPHG1102 | Rev.: 11/2002 | Sheet of



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Checked:	MJG	12/02
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Project: WIGINGTON

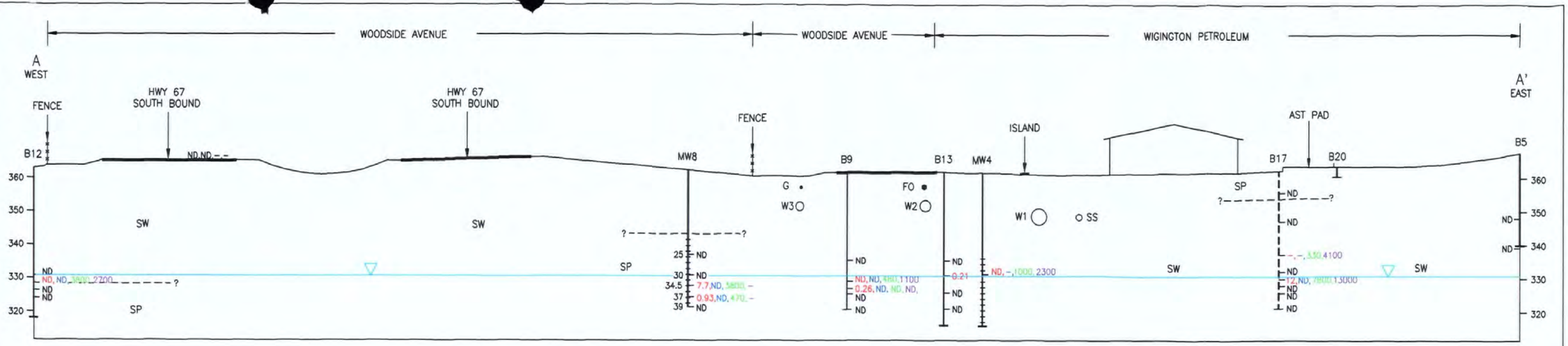
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SANTEE, CALIFORNIA

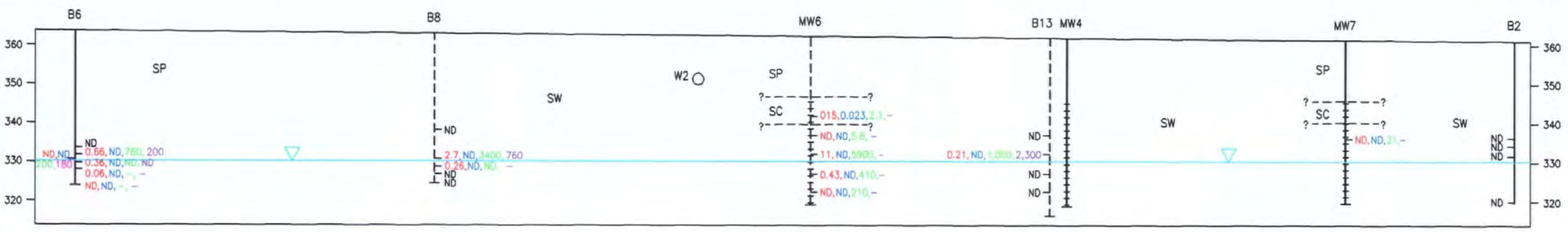
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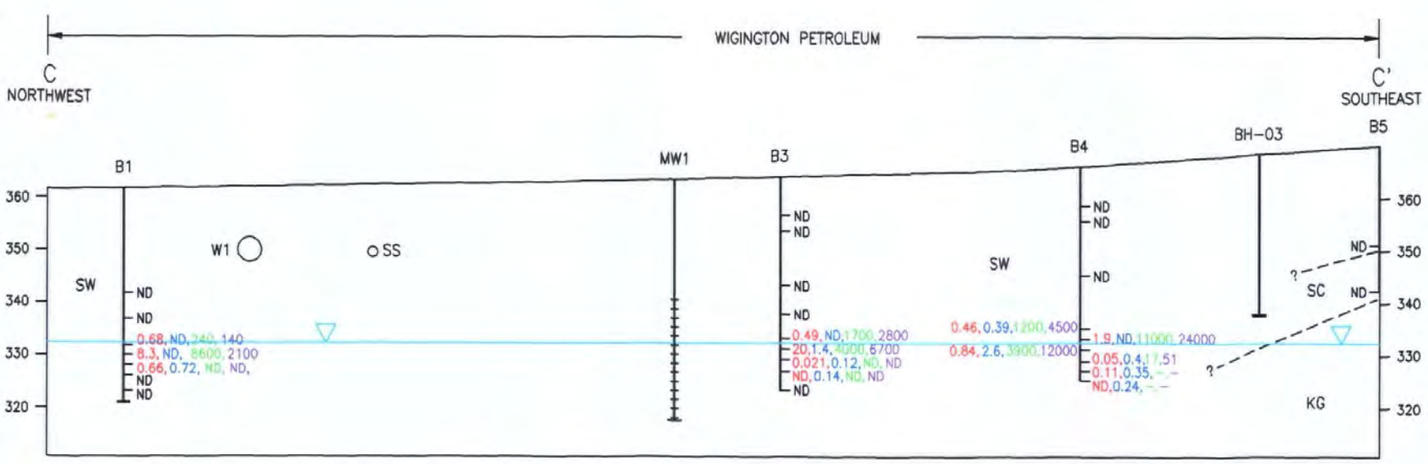
SOIL CONCENTRATIONS TPHg AND TPHd

File No.: 02-01686-001 | Date: 12/2002 | 9

ACAD File No.: TPGTPD1102 | Rev.: | Sheet of







LEGEND

- B6 — BORING AND DESIGNATION
- ND — SAMPLE RESULT ND FOR BENZENE, MTBE, TPHg AND TPHd
- 0.66 — SAMPLE RESULT FOR BENZENE, MTBE, TPHg AND TPHd
- SAMPLE AT BOTTOM
- NO SAMPLE AT BOTTOM
- PROJECTED BORING
- WELL SCREEN
- SW — USCS CLASSIFICATION
- APPROX. GROUNDWATER TABLE
- BENZENE, MTBE, TPHg, TPHd — ANALYTICAL RESULTS IN mg/kg

0 15 30

SCALE IN FEET
HORIZONTAL=VERTICAL

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Project: WINGINGTON

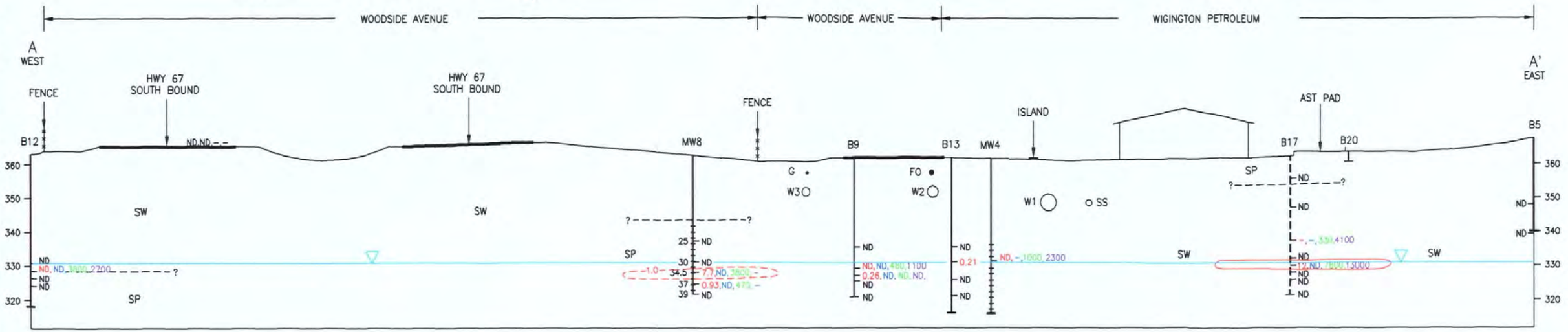
11427 WOODSIDE AVENUE
LAKESIDE, CALIFORNIA

Title: CROSS SECTIONS

		Date
Design:	MJG	1/03
Drawn:	MJL	1/03
Checked:	MJG	1/03
Approved:	MJG	1/03

File No.: 02-01686-001 | Date: 1/2003 | 10

ACAD File No.: AABBCC103 | Rev.: | Sheet of



LEGEND

- B6 — BORING AND DESIGNATION
- ND — SAMPLE RESULT ND FOR BENZENE, MTBE, TPHg AND TPHd
- 0.66 — SAMPLE RESULT FOR BENZENE, MTBE, TPHg AND TPHd
- SAMPLE AT BOTTOM
- NO SAMPLE AT BOTTOM
- PROJECTED BORING
- WELL SCREEN
- SW — USCS CLASSIFICATION
- APPROX. GROUNDWATER TABLE
- MTBE CONTOUR
- BENZENE CONTOUR
- BENZENE, MTBE, TPHg, TPHd — ANALYTICAL RESULTS IN mg/kg

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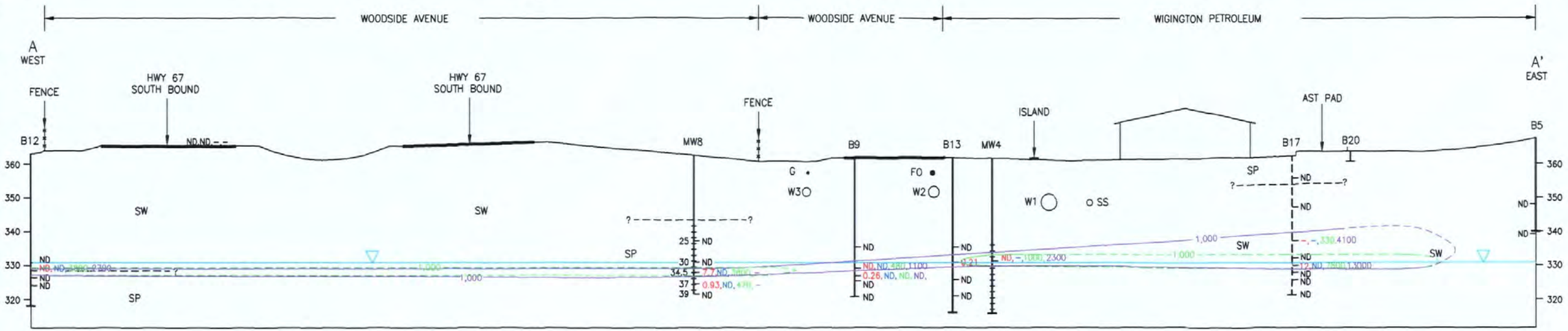
Project: WINGINGTON

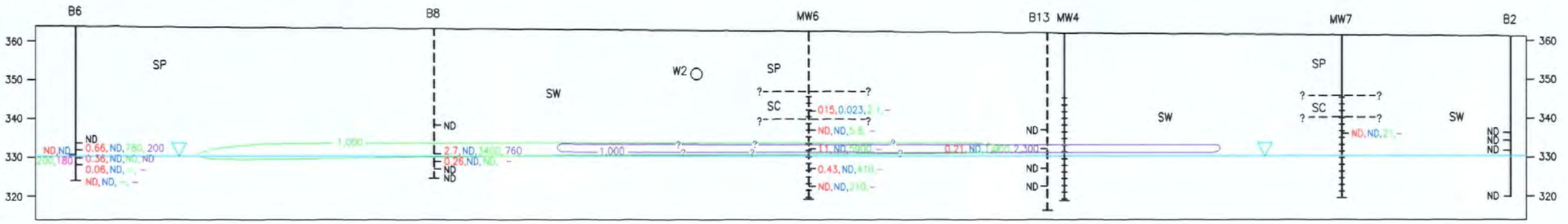
11427 WOODSIDE AVENUE
LAKESIDE, CALIFORNIA

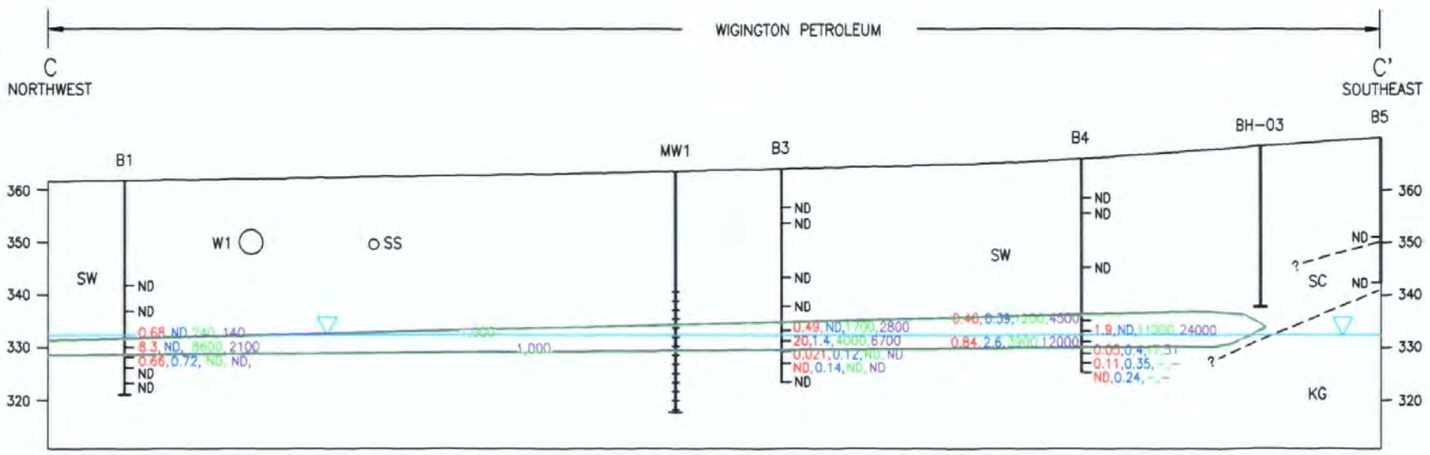
Title:
CROSS SECTIONS WITH BENZENE AND MTBE CONTOURS

		Date
Design:	MJG	1/03
Drawn:	MJL	1/03
Checked:	MJG	1/03
Approved:	MJG	1/03

File No.: 02-01686-001 | Date: 1/2003 | 10a
ACAD File No.: AABBCC10A | Rev.: | Sheet of







LEGEND

- B6 — BORING AND DESIGNATION
- ND — SAMPLE RESULT ND FOR BENZENE, MTBE, TPHg AND TPHd
- 0.66 — SAMPLE RESULT FOR BENZENE, MTBE, TPHg AND TPHd
- SAMPLE AT BOTTOM
- NO SAMPLE AT BOTTOM
- PROJECTED BORING
- WELL SCREEN
- SW — USCS CLASSIFICATION
- APPROX. GROUNDWATER TABLE
- TPHd CONTOUR
- TPHg CONTOUR
- BENZENE, MTBE, TPHg, TPHd — ANALYTICAL RESULTS IN mg/kg

0 15 30
SCALE IN FEET
HORIZONTAL=VERTICAL

EnecoTech®
ENVIRONMENTAL CONSULTANTS

Project: WINGINGTON

11427 WOODSIDE AVENUE
LAKESIDE, CALIFORNIA

Title:
CROSS SECTIONS WITH TPHg AND TPHd CONTOURS

		Date
Design:	MJG	1/03
Drawn:	MJL	1/03
Checked:	MJG	1/03
Approved:	MJG	1/03

File No.: 02-01686-001 | Date: 1/2003 | 10b
ACAD File No.: AABBCC10B | Rev.: | Sheet of

CALTRANS

(50) [64] MW8 RIGHT OF WAY

45'

G W3

B8 (3,000) [<500]

B9 (<50) [<100]

℄ ℄

TELEPHONE POLE

WOODSIDE AVENUE

SWALE W2 FO

B13 (31) [<10] [FP] .17

2.4 2.6

SIGN

SWALE

OLD RELEASE

MW6 (5,300) [850]

MW4 (4,500) [1,500] [0.09] .09'

B1 (13,000) [<500]

10,000 1,000 100 100 1,000

MW7 (3.7) [19]

TELEPHONE POLE

B2 (<0.5) [<1]

W1

SEWER MANHOLE

SS SS SS

RU-1

B19

B14 (<50) [<100]

GRAVEL

CONCRETE

MW5 (7.3) [230]

PROPANE AST

BH-06

NEW RELEASE

U-10 U-9 U-8 U-7

MW2/BH-09 (9.2) [2,600] [0.07] .07

VENTS

LUBRICANTS

1,000 1,000

B3 (3,800) [1,700] [FP]

MW1 (230) [190]

RU-5 RU-6 RU-2

B17 (4,100) [630] [FP] .1'

RU-8 RU-7 RU-9

OU-110

CONCRETE

GRAVEL

B18 (<50) [6,000]

PROPERTY LINE

B20

OLD RELEASE

B4 (670) [850] [FP] .71'

BH-08

MW3 (92) [590] [0.48] .48

1,000 100

BH-03

BH-01

CONCRETE

B5 (DRY)

BH-04

BH-05

RU-10 RU-11 RU-12 RU-13

BH-02

A A' MATCHLINE A-A'

ELEVATED PLATFORM (CURRENTLY 55 GAL. DRUM STORAGE)

4' HIGH BLOCK WALL

A MATCHLINE A-A' A'

BH-01

TELEPHONE POLE

NOTE:
ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

LEGEND

- MW1 – MONITORING WELL WITH DESIGNATION
- BH-10 – BOREHOLE AND DESIGNATION
- B18 – BORING AND DESIGNATION
- – DISPENSER ISLAND WITH DISPENSERS IN BLACK
- – FORMER DISPENSER
- – (4) UST's REMOVED IN MAY 1988 (LOCATION APPROXIMATE)
- – (1) UST's INSTALLED IN MAY 1988
- – (9) UST's REMOVED IN MAY 1998 (LOCATION APPROXIMATE)
- – (1) UST INSTALLED IN 1998 (4 COMPARTMENT)
- – ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- U-8 – UST DESIGNATION
- A-6 – AST DESIGNATION
- – CONVAULT-TYPE TANK
- – AST SECONDARY CONTAINMENT
- RU-1 – REMOVED UST DESIGNATION
- RA-1 – REMOVED AST DESIGNATION
- – FENCE

UTILITIES

- —SS— – SANITARY SEWER
- —W1— – 68" WATER
- —W2— – 48" WATER
- — G — – 2" + 6" NATURAL GAS
- —W3— – 36" WATER
- —FO— – FIBER OPTICS
- (<0.5) – BENZENE IN mg/kg
- [<0.5] – MTBE IN mg/kg
- [0.07] – FREE PRODUCT THICKNESS

mg/kg

0 15 30

SCALE IN FEET

100 – BENZENE CONTOUR

100 – MTBE CONTOUR

(CONTOUR QUERRIED WHERE INFERRED)

EnecoTech®
ENVIRONMENTAL CONSULTANTS

Project: WIGINGTON PETROLEUM

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: GROUNDWATER CONCENTRATIONS
BENZENE AND MTBE
(4/02 AND 12/02)

		Date
Design:	MJG	1/03
Drawn:	MJL	1/03
Checked:	MJG	1/03
Approved:	MJG	1/03

File No.: 02-01686-001 Date: 1/2003 DWG/FIG 11

ACAD File No.: GWCONC103 Rev.: Sheet of

APPROXIMATELY 150 FT. TO SAN DIEGO RIVER SURFACE WATER

400'

BLUE STAR STEEL
11322

CARSON TRAILER

TRAVLIN' RV
11370

THUNDERWORKS/
ELIMINATOR
BOATS
11420

TERRA TRAILER
& TRUCK
11424

AUTO CORRAL
AC TRUCK
BODIES
11440

TOYOTA
LIFT
11446

RICHS
MACHINE
11448

VALLEY
TRACTOR

NORTH WOODSIDE AVE.

B16 (<0.0005) [27]

SHOULDER

B10 (1,000) [280]

B11 (2,800) [64]

B12 (<0.05) [<0.1]

B15 (<0.0005) [<0.001]

HIGHWAY 67 SOUTH BOUND

BOX CULVERT

CENTER DIVIDER

HIGHWAY 67 NORTH BOUND

TRAILER STORAGE

MW8

SHOULDER

B7 (4,300) [780]

B6 (5,300) [180]

B8

B9

B13

B1

11427

MW6

MW4

MW7

B2

11433
MOUSER
ELECTRONICS

11421
WESTERN STATES
FIRE PROTECTION

PETER GAUGHEN'S
CHRISTMAS
TREES

ACCESS RD.

CREEKSIDE
APARTMENTS

KARERILYN DR.

ORBIS DISTRIBUTORS
FLOORS GALORE

B19

B14

MW1

MW5

B3

B17

B20

MW2

B18

B4

MW3

B5

RAYO
WHOLESALE

0 50 100
SCALE IN FEET

LEGEND

- MONITORING WELL LOCATION
- BORING LOCATION
- FENCE
- (<0.5) – BENZENE IN ug/l
- [<0.5] – MTBE IN ug/l
- 100 – BENZENE CONTOUR
- 100 – MTBE CONTOUR

(CONTOUR QUERRIED WHERE INFERRED)

EnecoTech
ENVIRONMENTAL CONSULTANTS

Project: WIGINGTON

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: GROUNDWATER CONCENTRATIONS
BENZENE AND MTBE
(4/02 AND 12/02)

		Date
Design:	MJG	1/03
Drawn:	MJL	1/03
Checked:	MJG	1/03
Approved:	MJG	1/03

File No.: 02-01686-001 | Date: 1/2003 | 12

ACAD File No.: AREABEN103 | Rev.: | Sheet of

CALTRANS RIGHT OF WAY

MW8 (4,800) [6,500]

B8 (91,000) [11,000]

B9 (8,600) [14,000]

B13 (91,000) [210,000] [EP]

WOODSIDE AVENUE

B1 (130,000) [22,000]

MW6 (25,000) [9,100]

SIGN

MW4 (4,500) [1,500] [0.09]

MW7 (1,900) [13,000]

B2 (<500) [<500]

BH-10

TELEPHONE POLE

SWALE

SEWER MANHOLE

B19

B14 (3,600) [4,400]

MW5 (500) [2,000]

GRAVEL

CONCRETE

MW1 (1,100) [1,100]

B3 (1,200,000) [2,100,000] [FP]

PROPANE AST

BH-06

U-10

U-9

U-8

U-7

MW2/BH-09 (6,000) [160,000] [0.07]

VENTS

LUBRICANTS

CONCRETE

GRAVEL

B17 (80,000) [190,000] [FP]

B20

B18 (<500) [<500]

PROPERTY LINE

ELEVATED PLATFORM (CURRENTLY 55 GAL. DRUM STORAGE)

4' HIGH BLOCK WALL

MATCHLINE A-A'

A

A'

BH-08

MW3 (9,700) [190,000] [0.48]

B4 (83,000) [220,000] [FF]

BH-01

BH-03

CONCRETE

B5 (DRY)

BH-04

BH-05

RU-10 RU-11 RU-12 RU-13

BH-02

NOTE:
ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE

TELEPHONE POLE

LEGEND

- MW1 – MONITORING WELL WITH DESIGNATION
- B18 – BORING AND DESIGNATION
- BH-10 – BOREHOLE AND DESIGNATION
- – DISPENSER ISLAND WITH DISPENSERS IN BLACK
- – FORMER DISPENSER
- – (4) UST's REMOVED IN MAY 1988 (LOCATION APPROXIMATE)
- – (1) UST's INSTALLED IN MAY 1988
- – (9) UST's REMOVED IN MAY 1998 (LOCATION APPROXIMATE)
- – (1) UST INSTALLED IN 1998 (4 COMPARTMENT)
- – ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- U-8 – UST DESIGNATION
- – AST DESIGNATION
- – CONVAULT-TYPE TANK
- – AST SECONDARY CONTAINMENT
- RU-1 – REMOVED UST DESIGNATION
- – REMOVED AST DESIGNATION
- – FENCE

UTILITIES

- SS – SANITARY SEWER
- W1 – 68" WATER
- W2 – 48" WATER
- G – 2" + 6" NATURAL GAS
- W3 – 36" WATER
- FO – FIBER OPTICS
- (320) – TPHg IN mg/kg
- [1,300] – TPHd IN mg/kg
- [0.07] – FREE PRODUCT THICKNESS

1,000 – TPHg CONTOUR
1,000 – TPHd CONTOUR
(CONTOUR QUERRIED WHERE INFERRED)

0 15 30
SCALE IN FEET

EnecoTech
ENVIRONMENTAL CONSULTANTS

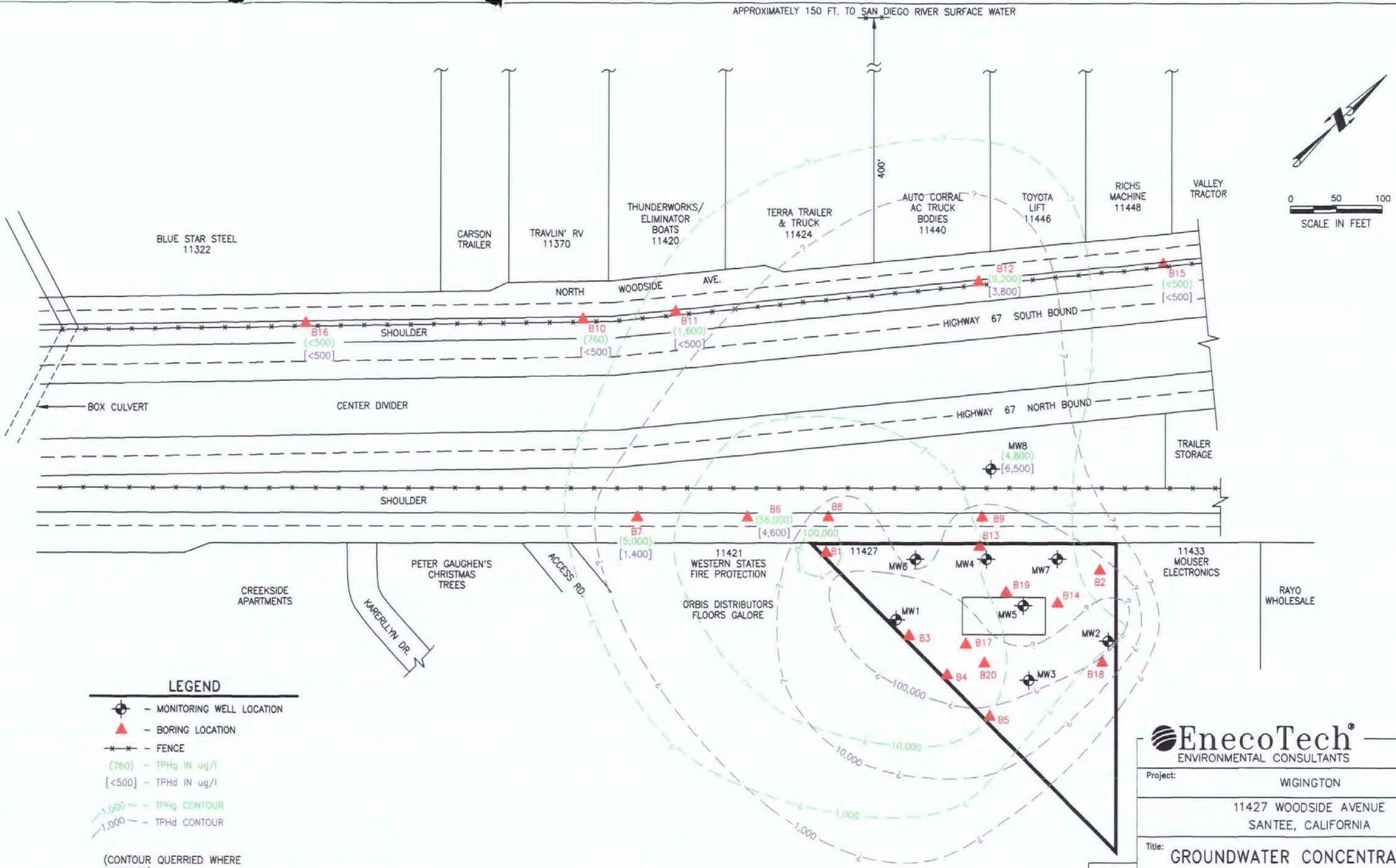
Project: WIGINGTON PETROLEUM

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: GROUNDWATER CONCENTRATIONS TPHg AND TPHd (4/02 AND 12/02)

		Date
Design:	MJG	1/03
Drawn:	MJL	1/03
Checked:	MJG	1/03
Approved:	MJG	1/03

File No.: 02-01686-001 | Date: 1/2003 | DWG/FIG 13
ACAD File No.: GWTPHG103 | Rev.: | Sheet of



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		Date
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Drawn:	MJL	1/03
Checked:	MJG	1/03
Approved:	MJG	1/03

Project: WIGINGTON

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: GROUNDWATER CONCENTRATIONS
TPHg AND TPHd
(4/02 AND 12/02)

File No.: 02-01686-001	Date: 1/2003	14
ACAD File No.: AREATPHG103	Rev.:	Sheet of

TABLES

1a Soil Analytical Results from Comprehensive Site Assessment
1b Soil Analytical Results from Previous Site Assessment
2a Groundwater Elevation and Free Product Thickness
2b Well Construction Details
3a Groundwater Analytical Results from Comprehensive Site Assessment
3b Groundwater Analytical
3c Groundwater Analytical - Oxygenates

Table 1a- Soil Analytical Results from Comprehensive Site Assessment
Wigington Petroleum
(all results in mg/kg)

Sample ID	Sample Date	TPH by EPA 8015		MTBE		Benzene		Toluene		Ethyl benzene		Xylenes	
		Gasoline	Diesel	EPA 8021	EPA 8260	EPA 8021	EPA 8260	EPA 8021	EPA 8260	EPA 8021	EPA 8260	EPA 8021	EPA 8260
B1-20	12/3/02	<10	<10										
B1-25	12/3/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B1-30	12/3/02	240	140	<1.0		0.68		1.6		2.4		13	
B1-32	12/3/02	8,600	2,100	130	<1	61	8.3	340	86	100	39	590	201
B1-34	12/3/02	<10	<10	0.72		0.66		2.4		0.97		4.9	
B1-36	12/3/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B1-38	12/3/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B2-30	12/3/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B2-32	12/3/02	<10	<10	<0.1	0.0098	<0.05	0.012	<0.05	0.0064	<0.05	<0.005	<0.15	<0.010
B2-34	12/3/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B2-40	12/3/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B3-7	12/3/02	<10	<10										
B3-10	12/3/02	<10	<10										
B3-20	12/3/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B3-25	12/3/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B3-30	12/3/02	1,700	2,800	10	<0.2	8.2	0.99	8.6	<0.2	27	14	96	40
B3-32	12/3/02	4,000	6,700	42	1.4	32	20	8.2	1.7	55	55	210	161.2
B3-34	12/3/02	<10	<10	0.21	0.12	<0.05	0.021	<0.05	<0.005	<0.05	0.016	<0.15	0
B3-36	12/3/02			0.14		<0.05		<0.05		<0.05		<0.15	0.032
B3-40	12/3/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B4-7	12/3/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B4-10	12/3/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B4-20	12/3/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B4-30	12/3/02	1,200	4,500	0.39		0.46		0.13		8.1		19	
B4-32	12/3/02	11,000	24,000	<50	<1	14	1.9	11	1.6	35	6.4	110	17
B4-34	12/3/02	3,900	12,000	2.6		0.84		1.2		11		18	
B4-36	12/3/02	17	51	0.4		0.05		<0.05		<0.05		<0.15	
B4-38	12/3/02			0.35		0.11		<0.05		<0.05		<0.15	
B4-40	12/3/02			0.24		<0.05		<0.05		<0.05		<0.15	
B5-20	12/4/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B5-28.5	12/4/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	

Table 1a- Soil Analytical Results from Comprehensive Site Assessment
Wigington Petroleum
(all results in mg/kg)

Sample ID	Sample Date	TPH by EPA 8015		MTBE		Benzene		Toluene		Ethyl benzene		Xylenes	
		Gasoline	Diesel	EPA 8021	EPA 8260	EPA 8021	EPA 8260	EPA 8021	EPA 8260	EPA 8021	EPA 8260	EPA 8021	EPA 8260
B6-30	12/4/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B6-32	12/4/02	780	200	68	<0.5	9.1	0.66	7.2	3.1	26	9.8	120	48
B6-33	12/4/02	200	180	1.9	<0.05	0.38	<0.05	1.6	<0.05	4.9	1.6	28	8.6
B6-34	12/4/02	<10	<10	<0.50		0.36		0.08		0.40		0.75	
B6-36	12/4/02			<0.1		0.06		<0.05		0.11		<0.15	
B6-40	12/4/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B7-25	12/4/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B7-30	12/4/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B7-32	12/4/02	<10	<10	0.15		0.21		<0.05		0.06		<0.15	
B7-36	12/4/02	<10	<10	0.22		0.73		<0.05		<0.05		<0.15	
B7-40	12/4/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B8-25	12/4/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B8-32	12/4/02	3,400	760	<10	<0.5	15	2.7	88	45	63	46	330	116
B8-34	12/4/02	<10	<10	<0.50		0.26		0.20		0.24		0.45	
B8-36	12/4/02			<0.1		<0.05		0.20		0.21		1.2	
B8-38	12/4/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B9-25	12/4/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B9-31	12/4/02	480	1,100	2.7	<0.05	0.25	<0.05	1.1	<0.05	2.4	0.17	8	0.49
B9-33	12/4/02	2,600	4,900	<10	<0.5	6.2	<0.5	8	<0.5	19	8.9	44	25.3
B9-35	12/4/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B10-30	12/5/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B10-32	12/5/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B10-34	12/5/02			<0.1		<0.05		<0.05		0.06		<0.15	
B10-40	12/5/02			<0.1		0.08		<0.05		0.10		<0.15	
B11-31	12/5/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B11-36	12/5/02	<10	<10	<0.1	0.01	0.24	0.088	<0.05	0.0058	0.06	0.038	<0.15	<0.01
B11-40	12/5/02	<10	<10	<0.1		0.07		<0.05		<0.05		<0.15	
B11-45	12/5/02			<0.1		<0.05		<0.05		<0.05		<0.15	

Table 1a- Soil Analytical Results from Comprehensive Site Assessment
Wigington Petroleum
(all results in mg/kg)

Sample ID	Sample Date	TPH by EPA 8015		MTBE		Benzene		Toluene		Ethyl benzene		Xylenes	
		Gasoline	Diesel	EPA 8021	EPA 8260	EPA 8021	EPA 8260	EPA 8021	EPA 8260	EPA 8021	EPA 8260	EPA 8021	EPA 8260
B12-32	12/5/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B12-34	12/5/02	3,800	2,700	7.9	<0.05	9.4	<0.05	0.58	<0.05	8.2	<0.05	7.3	0.066
B12-36	12/5/02	<10	<10	<0.50		<0.05		0.08		0.27		<0.15	
B12-38	12/5/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B13-25	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B13-30	12/6/02	1,000	2,300	5.0	<0.2	3.6	0.21	1.9	<0.2	17	8.7	110	46
B13-35	12/6/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B13-40	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B14-25	12/6/02	730	260	0.13		0.15		<0.05		2600		0.68	
B14-30	12/6/02	390	1,000	<0.1	<0.05	0.96	0.078	1.4	<0.05	2.9	1.9	5.7	3.3
B14-35	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B15-32	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B15-33	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B15-34	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B15-35	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B15-36	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B16-29	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B16-31	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B16-33	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B17-7	12/6/02	<10	<10										
B17-15	12/6/02	<10	<10										
B17-25	12/6/02	330	4,100										
B17-30	12/6/02			<0.1		<0.05		<0.05		0.53		0.086	
B17-32	12/6/02	7,800	13,000	2.0	<0.5	1.6	12	0.32	<0.5	2.2	18	7.5	57
B17-34	12/6/02	<10	<10	<0.1		<0.05		<0.05		<0.05		<0.15	
B17-36	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B18-25	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	
B18-32	12/6/02	320	1,300	0.17	0.15	<0.05	<0.05	<0.05	<0.05	0.07	<0.05	0.18	<0.1
B18-34	12/6/02			0.21	0.14	<0.05	<0.005	<0.05	<0.005	<0.05	<0.005	<0.15	<0.01
B18-36	12/6/02			0.28	0.25	<0.05	<0.005	<0.05	<0.005	<0.05	<0.005	<0.15	<0.01
B18-40	12/6/02			<0.1		<0.05		<0.05		<0.05		<0.15	

TABLE 1b: Soil Analytical Results from Previous Site Assessment
Wigington Petroleum (mg/kg)

Sample ID	EPA 8015 TPHg	EPA 8021				EPA 8021/8260 MTBE
		Benzene	Toluene	Ethylbenzene	Xylenes	
MW6-20'	2.1	0.15	0.0059	0.015	0.11	0.046/0.023
MW6-25'	5.8	<0.0050	<0.0050	0.0057	0.13	0.051/<0.005
MW6-30'	5,900	11	93	80	540	<800/-
MW6-35'	410	0.43	7.7	4.3	29	<40/-
MW6-40'	210	<0.40	0.73	2.0	17	<2.8/-
MW7-25'	21	<0.020	<0.020	<0.020	0.060	0.14/-
MW8-25'	<1.0	<0.0050	<0.0050	<0.0050	0.015	<0.035/-
MW8-30.5'	<1.0	<0.0050	<0.0050	<0.0050	0.015	<0.035/-
MW8-31'	<1.0	<0.0050	<0.0050	<0.0050	0.015	<0.035/-
MW8-31.5'	<1.0	<0.0050	<0.0050	<0.0050	0.015	<0.035/-
MW8-32.5'	<1.0	<0.0050	<0.0050	<0.0050	0.015	<0.035/-
MW8-33'	230	0.59	0.39	0.79	2.1	<1.4/-
MW8-34'	51	<0.20	<0.20	<0.20	<0.60	<1.4/-
MW8-34.5'	3,800	7.7	3.5	29	55	<14/-
MW8-35.5'	480	1.4	1.5	1.8	2.9	<3.5/-
MW8-36'	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.035/-
MW8-37'	470	0.93	0.69	2.7	3.4	<3.5/-
MW8-37.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.035/-
MW8-38.5'	110	0.25	<0.20	0.75	1.0	<1.4/-
MW8-39'	<1.0	<0.0050	<0.0050	<0.0050	<0.015	<0.035/-
MW8-39.5'	<2.5	<0.012	<0.012	<0.012	<0.038	<0.088/-
MW8-39.5'	<2.5	<0.012	<0.012	<0.012	<0.038	<0.088/-

TABLE 2a: Groundwater Elevation and Free Product Thickness

Well ID	Date Measured	Well Casing Elevation (feet msl)[1]	Depth to Groundwater (feet)	Free Product Thickness (feet)	Groundwater Elevation (feet msl)[2]
MW1	5/25/88	363.90	28.73		335.17
	3/10/98	363.90	27.03		336.87
	4/5/00	363.90	29.62		334.28
	4/26/02	362.84	30.21		332.63
	12/3/02	362.84	30.19		332.65
MW2	5/25/88	365.40	30.03		335.37
	3/10/98	365.40	28.75		336.65
	4/5/00	365.40	32.23		333.17
	4/26/02	365.08	31.72		333.36
	12/3/02	365.08	31.90	0.07	333.24
MW3	5/25/88	366.07	30.83		335.24
	3/10/98	366.07	28.25		337.82
	4/5/00	366.07	36.65		329.42
	4/26/02	364.16	31.37		332.79
	12/3/02	364.16	31.70	0.48	332.84
MW4	5/25/88	362.90	27.68		335.22
	3/10/98	362.90	26.46		336.44
	4/5/00	362.90	29.98		332.92
	4/26/02	362.38	29.60		332.78
	12/3/02	362.38	29.50	0.09	332.95
MW5	3/10/98	NA	27.50		NA
	4/26/02	363.42	30.39		333.03
	12/3/02	363.42	30.50		332.92
MW6	4/26/02	362.44	29.77		332.67
	12/3/02	362.44	29.75		332.69
MW7	4/26/02	362.57	29.47		333.10
	12/3/02	362.57	29.45		333.12
MW8	4/26/02	364.51	31.71		332.80
	12/3/02	364.51	31.70		332.81

TABLE 2b: Well Construction Details

Well	Boring Diameter	Casing Type	Casing Diameter	Slot Size	Slotted Interval	Total Depth	Filter	Comments
MW1	12"	PVC	4"	0.020"	22'-42'	46'	#3	Put in by EnecoTech Denver in 1988
MW2	12"	PVC	4"	0.020"	24'-44'	46'	#3	Put in by EnecoTech Denver in 1988
MW3	12"	PVC	4"	0.020"	24.5'-44.5'	46'	#3	Put in by EnecoTech Denver in 1988
MW4	12"	PVC	4"	0.020"	22'-42'	44'	#3	Put in by EnecoTech Denver in 1988
MW5	?	Concrete	12"	?	?	70+'	?	Water well-building built over
MW6	10"	PVC	4"	0.020"	17'-41'	42'	#3	2/01
MW7	10"	PVC	4"	0.020"	17'-41'	42'	#3	2/01
MW8	10"	PVC	4"	0.020"	20'-40'	40'	#3	4/02

Table 3a - Groundwater Analytical Results from Comprehensive Site Assessment
Wigington Petroleum
(all results in ug/l)

Sample ID	Sample Date	TPH by EPA 8015		MTBE		Benzene		Toluene		Ethyl benzene		Xylenes	
		Gasoline	Diesel	EPA 8021	EPA 8260	EPA 8021	EPA 8260	EPA 8021	EPA 8260	EPA 8021	EPA 8260	EPA 8021	EPA 8260
B1	12/4/2002	130,000	22,000	<40000	450	17,000	13,000	31,000	25,000	5,100	4,700	29,000	24,600
B2	12/4/2002	<500	<500	<20	<1	<0.5	<0.5	10	10	4.1	4.1	27	26
B3	12/4/2002	1,200,000	2,100,000	<4000	1,700	2,800	3,800	120	<500	1,500	1,800	4,600	5,700
B4	12/4/2002	83,000	220,000	<2000	850	540	670	82	<50	420	410	1,400	1,200
B5	No Groundwater												
B6	12/4/2002	56,000	4,600	<400	180	610	5,300	1,400	14,000	450	3,700	2,200	16,500
B7	12/4/2002	5,000	1,400	<2000	780	5,300	4,300	51	<50	970	1,100	230	280
B8	12/4/2002	91,000	11,000	<2000	<500	1,800	3,000	6,700	11,000	2,200	3,900	12,000	20,300
B9	12/4/2002	8,600	14,000	<400	<100	51	<50	38	<50	510	44	1,500	1,200
B10	12/5/2002	760	<500	<200	280	330	1,000	<5.0	<50	250	<100	<15	<150
B11	12/5/2002	1,600	<500	<200	64	610	2,800	7.0	6.5	220	720	<15	<15
B12	12/6/2002	9,200	3,800	410	<0.1	38	<0.05	82	<0.05	900	0.97	660	0.70
B13	12/6/2002	91,000	210,000	2,600	<10	2,400	31	210	<5	1,900	170	6,900	546
B14	12/6/2002	3,600	4,400	<200	<100	38	<50	<5.0	<50	210	240	340	380
B15	12/6/2002	<500	<500	<20	<0.001	<0.5	<0.0005	<0.5	<0.0005	<0.5	<0.0005	<1.5	<0.0015
B16	12/6/2002	<500	<500	45	27	<0.5	<0.0005	<0.5	<0.0005	<0.5	<0.0005	<1.5	<0.0015
B17	12/6/2002	80,000	190,000	<4000	630	4,500	4,100	<100	<250	970	670	2,600	1,800
B18	12/6/2002	<500	<500	6,100	6,000	<0.5	<50	<0.5	<50	2.8	<50	<1.5	<150

TABLE 3b: Groundwater Analytical

Well ID	Date Sampled	EPA 418.1 TEH	DHS TPHg	DHS TPHd	EPA 8020 Benzene µg/l	EPA 8020 Toluene µg/l	EPA 8020 Ethyl benzene µg/l	EPA 8020 Xylenes µg/l	EPA 8020 MTBE µg/l	EPA 8260 MTBE µg/l	Lead mg/l
MW1	5/25/88	0.6			0.7	<0.5	-	<0.05			
	3/10/98		2,500	910	340	200	18	240	190		
	5/18/98		704	<500	326	89.5	<50.0	<100	<50.0		
	4/5/00		1,800		250	14	34	380	190	200	
	4/26/02		1,100	1,100	230	14	36	220	190		
MW2	5/25/88	<0.5			<0.5	<0.5	-	<0.5			
	3/10/98		330	<500	20	3.3	25	47	53		<0.0050
	4/4/00		7,600		7.6	3.3	30	59	3,400	3,500	
	4/26/02		6,000	160,000	9.2	3.9	16	17	3,100	2,600	
MW3	5/25/88	140			19	3.4	-	1.3			
	3/10/98		2,300	5,100	3.6	0.70	0.70	4.1	2,000		
	5/18/98		115	<500	98.5	<12.5	<12.5	<25.0	226		
	4/4/00		420		18	1.7	3.9	12	230	190	
	4/26/02		9,700	190,000	92	<3.0	56	62		590	
MW4	5/25/88	6.3			<0.5	<0.5	-	<0.5			
	3/10/98		9,600	3,700	2,400	250	50	430	4,100		<0.0050
	4/5/00		8,700		1,800	<12	110	790	1,300	900	
	4/26/02		15,000	95,000	4,500	150	450	1,900	1,500	1,500	
MW5	3/10/98		730	1,700	20	0.60	<0.30	39	92		
	4/26/02		500	2,000	7.3	1.7	2.8	6.8	230		
MW6	4/26/02		25,000	9,100	5,300	1,400	1,200	5,900	850		
MW7	4/26/02		1,900	13,000	3.7	1.1	4.0	7.9	19		
MW8	4/26/02		4,800	6,500	50	9.2	170	210	64		

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TABLE 3c: Groundwater Analytical - Oxygenates

Well ID	Date Sampled	Oxygenates EPA 8260B				
		DIPE µg/l	ETBE µg/l	MTBE µg/l	TAME µg/l	TBA µg/l
MW2	4/26/02	<40	<40	2,600	<40	500
MW3	4/26/02	<100	<100	<50	<100	1,200
MW4	4/26/02	<100	<100	1,500	<100	<1,200

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DNF

RECEIVED
2003 MAR 20 PM 12:00
D. E. H.
MAILROOM

APPENDICES

COMPREHENSIVE SITE ASSESSMENT
Wigington Petroleum
11427 Woodside Avenue
Santee, California 92071
H19469-001/T0948/APN 382-320-06

APPENDIX A

WELL SEARCH

Table A-1	Streets Within 2,250 Feet of Site for ID of Applicable DWR Well Driller Reports
Table A-2	Wells Identified in DWR Well Reports
Table A-3	Well Identified in DEH Files and Observed in Field Search
Table A-4	Well Identified Only in Field Search

Table A-1: Streets Within 2,250 Feet of Site for ID of Applicable DWR Well Driller Reports

Canyon Park Dr.
Canyon Park Ter.
Creekside Ct.
Heatherdale St.
High Rise Way
Hillvale Ave.
Hillvale Ln.
Huntingride Cir.
Karerllyn Dr.
Mast Blvd.
Mission Park Ct. and Pl.
No. Woodside Ave.
Northcote Rd.
Riverford Rd.
Security Way
Sunset Knolls Rd.
Taffy Ln.
Via Anita
Via Madonna
Via Theresa
Woodside Ave.
Woodside Ave. No.

Table A-2: Wells Identified in DWR Well Reports

Well Designation	Date of Install	State Well No.	Owner	Description of Location
1	11/2/1951	15S/1W 24D1	Riverview Mutual Water Co. (RMWC)	450' SW of Magnolia (now Marilla), 750' NE of Woodside Ave. RMWC #1
2	7/27/1970	15S/01W-24D10	City of San Diego	Intersection Woodside Ave./Marilla Road - North end. Riverview #2
3	5/1/1992	15S01W 24F01S	Riverview Water District (RWD)	Map shows as one of 3 wells in row on NW side of HWY 67, 0.5 mile SW of Wintergardens RWD #3?
	1/14/1999	15S 01W 24F01S	RWD	Request for well No. on RWD Well #3
4	8/18/1999	15S01W24G012S	RWD	Addition of Well #4 to 3 shown in 3 above
5	2/25/1986	15S, 1W-23	Ken Koske	11423 Woodside - F
6	6/2/1988	15S, 1W-23?	Buy Wright Oil	The 4 monitoring wells placed in 1988 on the subject site

Table A-3: Well Identified in DEH Files AND Observed in Field Search

7	?	?	?	From Subject Site: Approx. 0.15 mile NE on Woodside Ave. & 0.1 mile SE off Woodside Ave.; to rear of and NE of A-1 Storage; appears to be in far back yard of residence along un-named road in Thomas Bros map that may be the extension of Riverford Road

Table A-4: Well Identified Only in Field Search

8	?	?	?	Approx. 150' N & 75 ' E of Intersection of Woodside Ave. & Marilla Dr. Approx. 13" steel conduit with weld steel lid rising Approx. 2' above ground surface

Well 1

FIELD CHECK OF WELL LOCATION

BRILLER San Diego Pump & Well Drillers CHECKED BY A. J. Lee.

OWNER Riverview Mutual Water Co DATE 11/2/ 1951.

~~PUMP~~ MTR NO. U.S. 3950476 30HP

METER NO. _____.

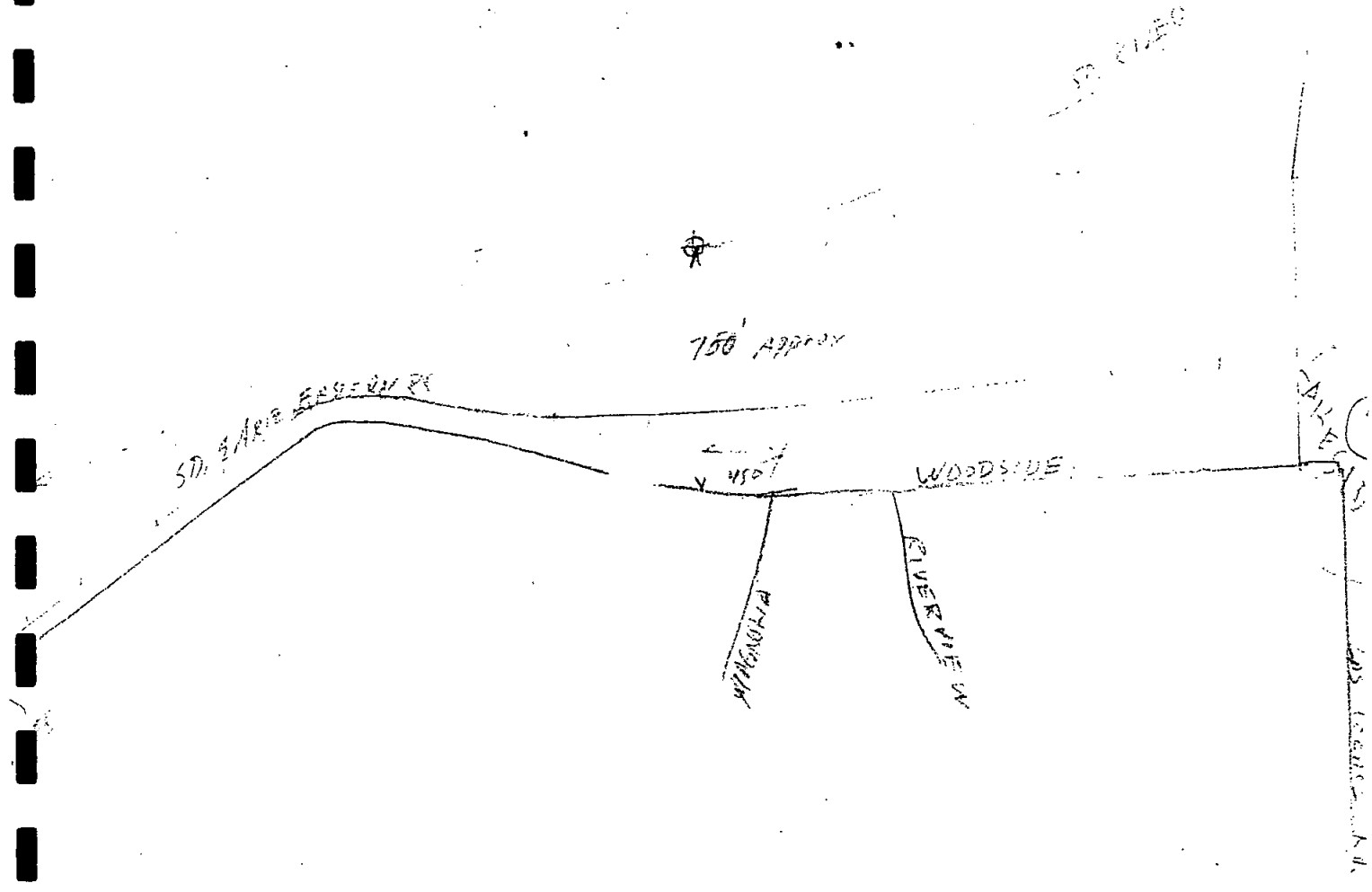
STATE WELL NO. 15S/1W 24 ~~E~~ D1

* has water level gui indicates 66 feet.

LOCATE WELL WITH REFERENCE TO ROADS AND ROAD INTERSECTIONS: ALSO INDICATE DISTANCES AND DIRECTIONS TO NEARBY CITIES OR TOWNS.

CONFIDE... FOR ...

MICROFILMED



(2) 15S/01W-24D10 Well 2

ORIGINAL
File with DWR

WATER WELL DRILLERS REPORT

(Sections 7079, 7080, 7081, 7082, Water Code)

Do Not Fill In

No 40219

THE RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

State Well No. 15S/01W-24D10

Other Well No. Riverview 2

29 1970

(1) OWNER:

Name CITY OF SAN DIEGO

Address COMMUNITY CONCOURSE
SAN DIEGO, CA.

(2) LOCATION OF WELL: RIVERVIEW #2

County SAN DIEGO Owner's number, if any

Township, Range, and Section 15S/01W-24D10

Distance from cities, roads, railroads, etc. INTERSECTION WOODSIDE AVE/MARILLA RD. LAKESIDE N. END

(3) TYPE OF WORK *(check):*

New Well ☒ Deepening ☐ Reconditioning ☐ Destroying ☐

If destruction, describe material and procedure in Item 11.

(4) PROPOSED USE *(check):*

Domestic ☐ Industrial ☐ Municipal ☒
Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☒
Cable ☐
Other ☐

(6) CASING INSTALLED:

STEEL: OTHER:

SINGLE ☐ DOUBLE ☐

If gravel packed Yes

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.

or well ring: Size of gravel:

at

(7) PERFORATIONS OR SCREEN:

Type of perforation or name of screen

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.

(8) CONSTRUCTION:

Was a surface sanitary seal provided? Yes ☑ No ☐ To what depth 45 ft.

Were any strata sealed against pollution? Yes ☐ No ☐ If yes, note depth of strata

From ft. to ft.

From ft. to ft.

Method of sealing

(9) WATER LEVELS:

Depth at which water was first found, if known ft.

Standing level before perforating, if known ft.

Level after perforating and developing ft.

WELL TESTS:

Test made? Yes ☒ No ☐ If yes, by whom? DRILLER

gal./min. with ft. drawdown after hrs.

Type of water UNK Was a chemical analysis made? Yes ☐ No ☒

Electric log made of well? Yes ☐ No ☒ If yes, attach copy

(11) WELL LOG:

Total depth 113' ft. Depth of completed well 113' ft.

Formation: *Describe by color, character, size of material, and structure*

0' - 5' MEDIUM XtoXcX TO COARSE GRAINED X. UNCONSOLIDATED SAND WITH LUMPS OF SIL CONTAINS A FEW(LESS THAN 5%) SMALL WELL ROUNDED GRAVEL. DRILLS EASILY.

5' -25.5' MEDIUM TO COARSE GRAINED SAND. GRADES FINER WITH DEPTH. SANDS ARE PREDOMINANTLY MEDIUM TO FINE GRAINED AT 20FT. DRILLS EASILY.

25.5' - 31' MEDIUM TO COARSE GRAINED SAN OF GRANITIC ORIGIN. PARTICLES ARE ROUNDED TO SUB-ROUNDED. DRILLS EASILY.

31' - 39' DENSE SILTY SAND WITH SOME COURSE MATERIAL. DRILLS FAST BUT EASILY WITH

39' - 62' HEAVY GRAVEL AND COBBLE-STONES WITH IRON-STAINED SILTY SANDS. TOP OF THIS UNIT IS MARKED BY PRONOUNCED STAINING AND FINE MICA PARTICLES. APPROX. 60% OF THE GRAVEL PARTICLES ARE OF GRANITIC ORIGIN, 40% ARE RHYOLITIC (EOCENE GRAVEL FROM THE POWAY CONGLOMERATE FORMATION) DIFFICUL DRILLING

62' - 72' HEAVY GRAVEL AND COBBLE-STONES WITH SILTY SAND. SIMILAR TO ABOVE MATERIAL BUT SHOWS MORE SAND AND DRI A LITTLE EASIER IN PARTS. EXTREME DIFFICULT DRILLING DUE TO LARGE BOULDERS AT 65.5 FT.

72' - 87' CONSOLIDATED SAND/GRAVEL WITH SILTY SAND/TALCOUS CLAYS. DRILLS SLOWLY WITH MODERATE DIFFICULTY. 5FT./20MIN. WITH 1500LBS. DOWN PRESS 6" DIA. HOLE.

87' - 97' SIMILAR TO ABOVE MATERIALS BUT SHOWS EXTREME IRON STAINING AND DRILLS LOOSE.

97' - 112' CONSOLIDATED SAND/GRAVEL/SOM BOULDERS. DRILLS SLOWLY W/DIFFICULTY

112' - 113' GRANITE, OR LG. GRANITE BOUL

Work started FEB. 2 19 70, Completed JUNE 2 19 70

WELL DRILLER'S STATEMENT:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME R. E. ANDERSON, INC.
(Person, firm, or corporation) *(Typed or printed)*

Address 10303 CHANNEL RD. LAKESIDE, CA. 920

[SIGNED] R E Anderson
(Well Driller)

License No. A227780 Dated JULY 27, 1970

SKETCH LOCATION OF WELL ON REVERSE SIDE

DWR 188 (REV. 9-65)

56391-950 10-65 50M TRIP ① △ OSP

ORIGINAL
File with DWR

Well 3

Page 1 of 2

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. 485261 pl
402751 p2

DWR USE ONLY — DO NOT FILL IN

15S/1W24F01S
STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

Owner's Well No. 1

Date Work Began 1/27/92, Ended 4/24/92

Local Permit Agency County of San Diego

Permit No. W03860R Permit Date 10/14/91 & 2/12/92

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DEPTH TO FIRST WATER 18'4" (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	1	Compacted fill
1	18'6"	Med. to coarse grained sand
18'6"	31	Silty sand-very tight brown clay binder
31	48	Semi-to consolidated sand
48	63	Semi-cnsolidated cobble rocks & granite boulders
63	65	Consolidated granite w/some gravels
65	67	Sandy clay
67	72	Semi-consolidated sand, gravel, some rocks
72	73	Sandy clay
72	78+	Consolidated cobble rocks
78	83	Much looser-cobble rocks w/sand
83	100	Consolidated sand, gravel, & cobbles
100	134	Consolidated sands, higher granite content, Boulders @ 100'
134	148	Decomposed granite
148	151	Coarse-grained, slightly weathered granite
151	154	Hard, decomposed granite
(154)		Well tested at approx. 10 gpm
154	171	Hard, decomposed granite
171	180	Soft area w/some caving
(185)		Well tested at 107 gpm
180	→	Hard granite rock w/little fracturing

TOTAL DEPTH OF BORING 405 (Feet)

TOTAL DEPTH OF COMPLETED WELL 405 (Feet)

WELL OWNER

Name Riverview Water District

Mailing Address 11769 Water Hill Rd.

City Lakeside, State CA Zip 92040

WELL LOCATION

Address No address

City Lakeside

County San Diego

APN Book 382 Page 25 Parcel 28

Township 15S Range 1W Section 24

Latitude ___ DEG. ___ MIN. ___ SEC. NORTH

Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH

NORTH / WEST / EAST / SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc.
PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USE(S) (✓)

___ MONITORING

WATER SUPPLY

___ Domestic

X Public

___ Irrigation

___ Industrial

___ "TEST WELL"

___ CATHODIC PROTECTION

___ OTHER (Specify)

DRILLING METHOD Mud/air-rotary FLUID ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL 18'4" (Ft.) & DATE MEASURED 4/22/92

ESTIMATED YIELD* 350 (GPM) & TEST TYPE test pump

TEST LENGTH 8 (Hrs.) TOTAL DRAWDOWN 405 (Ft.)

* Recommended pumping rate 250 gpm.
** May not be representative of a well's long term yield.*

CASING(S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL/ GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	50	22			x		steel	24" O.D.	.250"	
0	151						PVC	12 3/4"	11.13	I.D.
50	76			x						.040
92	112			x						.040
138	148			x						.040

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	50	x			5/16"x#1

ATTACHMENTS (✓)

___ Geologic Log

___ Well Construction Diagram

___ Geophysical Log(s)

___ Soil/Water Chemical Analyses

X Other Location map

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Rex Anderson Corp. (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS P. O. Box 384, CITY Julian, STATE CA ZIP 92036

Signed Julia Anderson (WELL DRILLER/AUTHORIZED REPRESENTATIVE) DATE SIGNED 5/1/92 C-57 LICENSE C-57A305739

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

AL
vith DWR
e 2 of 2 RWD

STATE OF CALIFORNIA
WELL COMPLETION REPO
Refer to Instruction Pamphlet

No. 402751 P2
485261 P1

DWR USE ONLY — DO NOT FILL IN
1S|5|0|1 W|2|4|F|0|1 S
STATE WELL NO./STATION NO.
LATITUDE | LONGITUDE
APN/TRS/OTHER

wner's Well No. 1
Date Work Began _____, Ended 4/24/92
Local Permit Agency _____
Permit No. _____ Permit Date _____

GEOLOGIC LOG

ORIENTATION (✓) ___ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DEPTH TO FIRST WATER _____ (Ft.) BELOW SURFACE

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
(285)	Well tested at 113 gpm
(405)	Well tested at 120 gpm

TOTAL DEPTH OF BORING _____ (Feet)
TOTAL DEPTH OF COMPLETED WELL _____ (Feet)

WELL OWNER

Name Riverview Water District well #1
Mailing Address _____
CITY _____ STATE _____ ZIP

WELL LOCATION

Address _____
City _____
County _____
APN Book _____ Page _____ Parcel _____
Township _____ Range _____ Section _____
Latitude _____ NORTH Longitude _____ WI
DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

NORTH
WEST
EAST
SOUTH

Illustrate or Describe Distance of Well from Landmarks such as Roads, Buildings, Fences, Rivers, etc.
PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

___ NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Mate Under "GEOLOGIC L(*

PLANNED USE(S) (✓)

___ MONITORING
WATER SUPPLY
___ Domestic
___ Public
___ Irrigation
___ Industrial
___ "TEST WELL"
___ CATHODIC PRO TION
___ OTHER (Specify)

DRILLING METHOD _____ FLUID _____

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH OF STATIC WATER LEVEL _____ (Ft.) & DATE MEASURED _____
ESTIMATED YIELD* _____ (GPM) & TEST TYPE _____
TEST LENGTH _____ (Hrs.) TOTAL DRAWDOWN _____ (Ft.)
** May not be representative of a well's long-term yield.*

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	CASING(S) TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL/ GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)

DEPTH FROM SURFACE Ft. to Ft.	ANNULAR MATERIAL TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PAC (TYPE/SIZE

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and beli

NAME Rex Anderson
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS _____ CITY _____ STATE _____ ZIP

Signed _____ DATE SIGNED _____ 30573
WELL DRILLER/AUTHORIZED REPRESENTATIVE C-57 LICENSE NUM

DWR 188 REV. 7-90

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

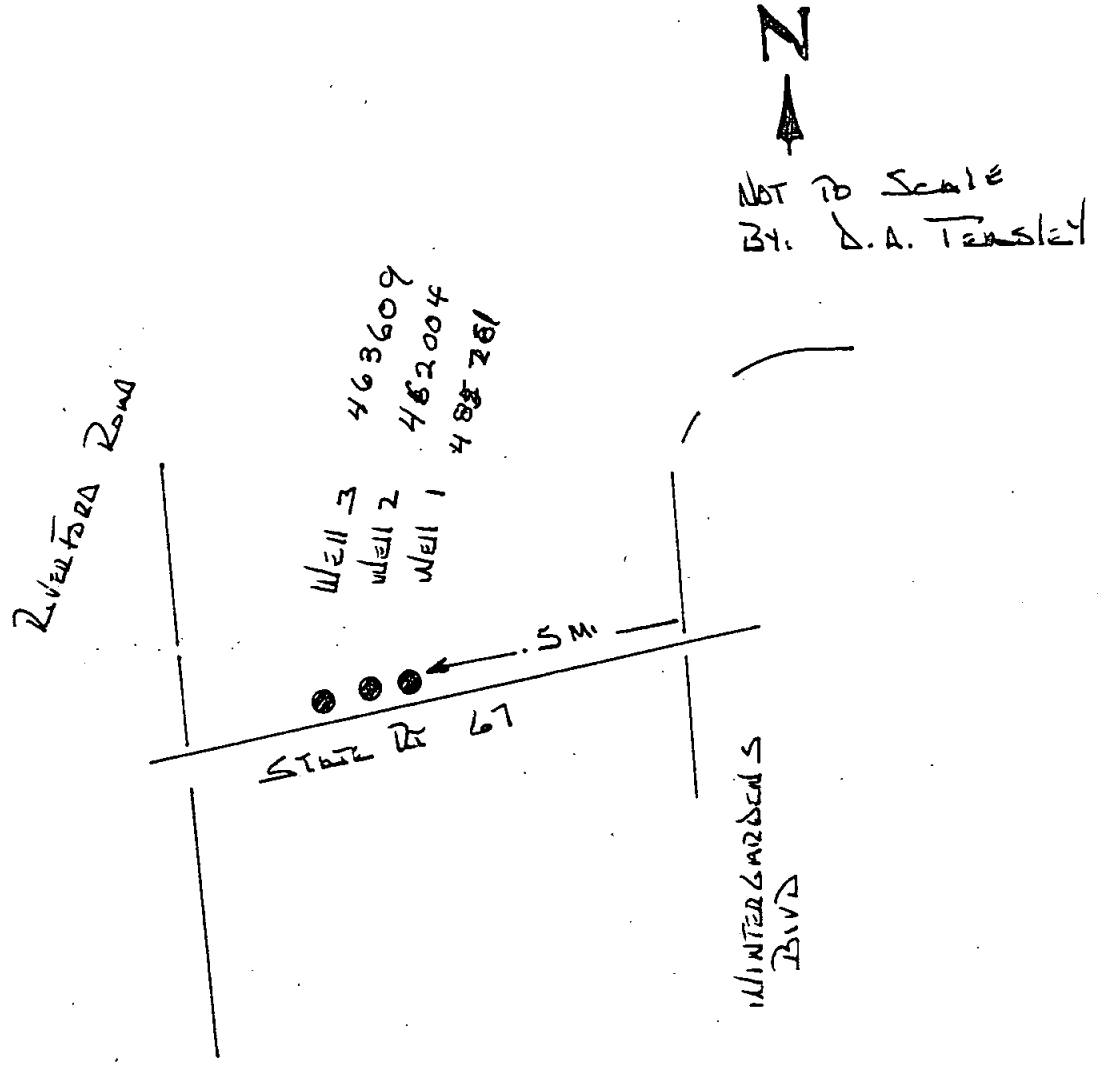
From Doug Teasley
1/20/99

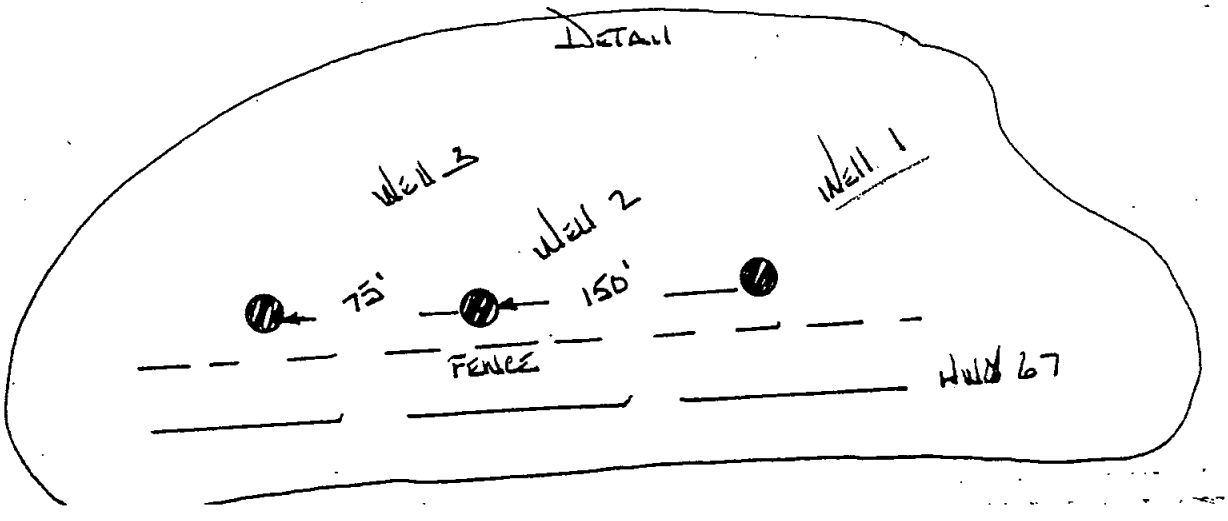
Board of Directors:
Ronald J. Bott
PRESIDENT
Richard J. Fouhy
VICE PRESIDENT
G. Robert Clark
TREASURER

RIVERVIEW WATER DISTRICT
11769 Waterhill Road
Lakeside, CA 92040-2998
Phone: (619) 561-1333
Fax: (619) 561-1659

Board of Directors:
Ken A. Gerhart
DIRECTOR
Billie G. Sangster
DIRECTOR

485261





Well 3 1S 1W 24F01S
Riverview #1
WCR 485261 p1
402 751 p7

Board of Directors:

Ronald J. Bott
PRESIDENT

Richard J. Fouhy
VICE PRESIDENT

G. Robert Clark
TREASURER

RIVERVIEW WATER DISTRICT
11769 Waterhill Road
Lakeside, CA 92040-2998
Phone: (619) 561-1333
Fax: (619) 561-1659

Board of Directors:

Ken A. Gerhart
DIRECTOR

Billie G. Sangster
DIRECTOR

January 14, 1999

Ms. Diane Sanchez
Department of Water Resources
770 Fairmont Avenue
Glendale, Ca. 91203-1035

RWD #1 1S 24F1

Dear Ms Sanchez:

Subject: Well Number, RWD Well #3 — Well #3 24F03

Riverview Water District is in the process of completing our 3rd Potable Water Well and we are requesting that your office issue us a well number based of the following information:

1. Water System; 3710030
2. System Name Riverview Water District
3. Name of Source Reactivated well field, well #3
4. Location of Source San Diego River Basin, Santee Hydrologic Sub-Area
5. Sequence Number: As assigned by Department of Water Resources
6. Base Meridian: San Bernardino
7. Township 15 South Range 1 West Section 24.
   Lat N 32 - 31 - 30; Long W 116 - 56 - 40
8. Dept. of Water Resources No. _____
9. Reference Maps: Attached excerpt U.S.G. S. El Cajon: Quad and Well location
10. Well Drillers Report: a. Howard Pump Inc. P.O. Box 1249
    Barstow, Ca. 92312-1249
    b. San Diego County well No. W-30534
    c. Well Completion Report
11. Water quality analysis is in process
12. Riverview Water District Well Numbers:
    a. Well #1: 15S01W-24F01S
    b. Well #2: 15SR1W-24F02

Upon issuance of the Department's sequence number, we will forward it to the State Department of Health Services, Office of Drinking Water. If you have any questions please call this office.

Sincerely,

Douglas A. Teasley
Field Operations Supervisor

C. RWD file
Attachments [13]

ORIGINAL
File with DWR

E-109 Well 4 15S 1W 24 G02 S

Page 1 of 1 RWD

Owner's Well No. 4

Date Work Began 7/12/99, Ended 8/9/99

Local Permit Agency Dept. of Env. Health

Permit No. W63810 Permit Date 7/6/99

STATE OF CALIFORNIA

WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. 770920

DWR USE ONLY — DO NOT FILL IN

15S01W24G02S

STATE WELL NO./STATION NO.

LATITUDE LONGITUDE

APN/TRS/OTHER

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)

DRILLING METHOD Rotary FLUID Gel

DEPTH FROM SURFACE Ft.	to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0	13	Fine to coarse grained sand grey color
13	34	Silty sand - brown color
34	36	Small rocks
36	55	claey sand - brown color
55	83	Sand, pea gravel, partly cemented brown color
83	97	Cemented sand Brown color
97	126	Sand, small rocks and boulders
126	130	Claey sand
130	155	Decomposed granite fill with small boulders
155	160	Weathered Granite

TOTAL DEPTH OF BORING 160 (Feet)

TOTAL DEPTH OF COMPLETED WELL 155 (Feet)

WELL OWNER

Name Riverview Water District

Mailing Address 11769 Water Hill Rd.

City Lakeside Califrnia 92040

CITY STATE ZIP

WELL LOCATION

Address N. of Hwy 67 Between Riverford1& Winter Garden Rd. Lakeside

City

County San Diego

APN Book 382 Page 25 Parcel 28

Township 15S Range 1W Section 24

Latitude 32 51 39 NORTH Longitude 116 56 24 WEST

DEG. MIN. SEC. DEG. MIN. SEC.

LOCATION SKETCH

NORTH

Land fill

SEE ATTACHED MAP

WEST EAST

Well 5

32 ft. — 400' — ?

STATE Hwy 67

SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

X NEW WELL

MODIFICATION/REPAIR

___ Deepen

___ Other (Specify)

___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (✓)

WATER SUPPLY

___ Domestic X Public

___ Irrigation ___ Industrial

___ MONITORING

___ TEST WELL

___ CATHODIC PROTECTION

___ HEAT EXCHANGE

___ DIRECT PUSH

___ INJECTION

___ VAPOR EXTRACTION

___ SPARGING

___ REMEDIATION

___ OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 40 (Ft.) BELOW SURFACE

DEPTH OF STATIC WATER LEVEL 20 (Ft.) & DATE MEASURED 8/9/99

ESTIMATED YIELD * 112 (GPM) & TEST TYPE pump

TEST LENGTH 48 (Hrs.) TOTAL DRAWDOWN 115 (Ft.)

** May not be representative of a well's long-term yield.*

CASING (S)

DEPTH FROM SURFACE Ft.	to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0	55	24	X				A-53	17.5	.250	
0	55	18	X				F480	9.75	.500	
55	155	18		X			F480	9.75	.500	.060

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft.	to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	55	X			
0	155		Pea	Gravel	5/6x16

ATTACHMENTS (✓)

___ Geologic Log

✓ Well Construction Diagram

✓ Geophysical Log(s)

___ Soil/Water Chemical Analyses

✓ Other Map

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Fain drilling & Pump Co. Inc.
(PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)

ADDRESS 12029 Old Castle Rd. Valley Center, California 92082
CITY STATE ZIP

Signed Joe R Fain
WELL DRILLER/AUTHORIZED REPRESENTATIVE

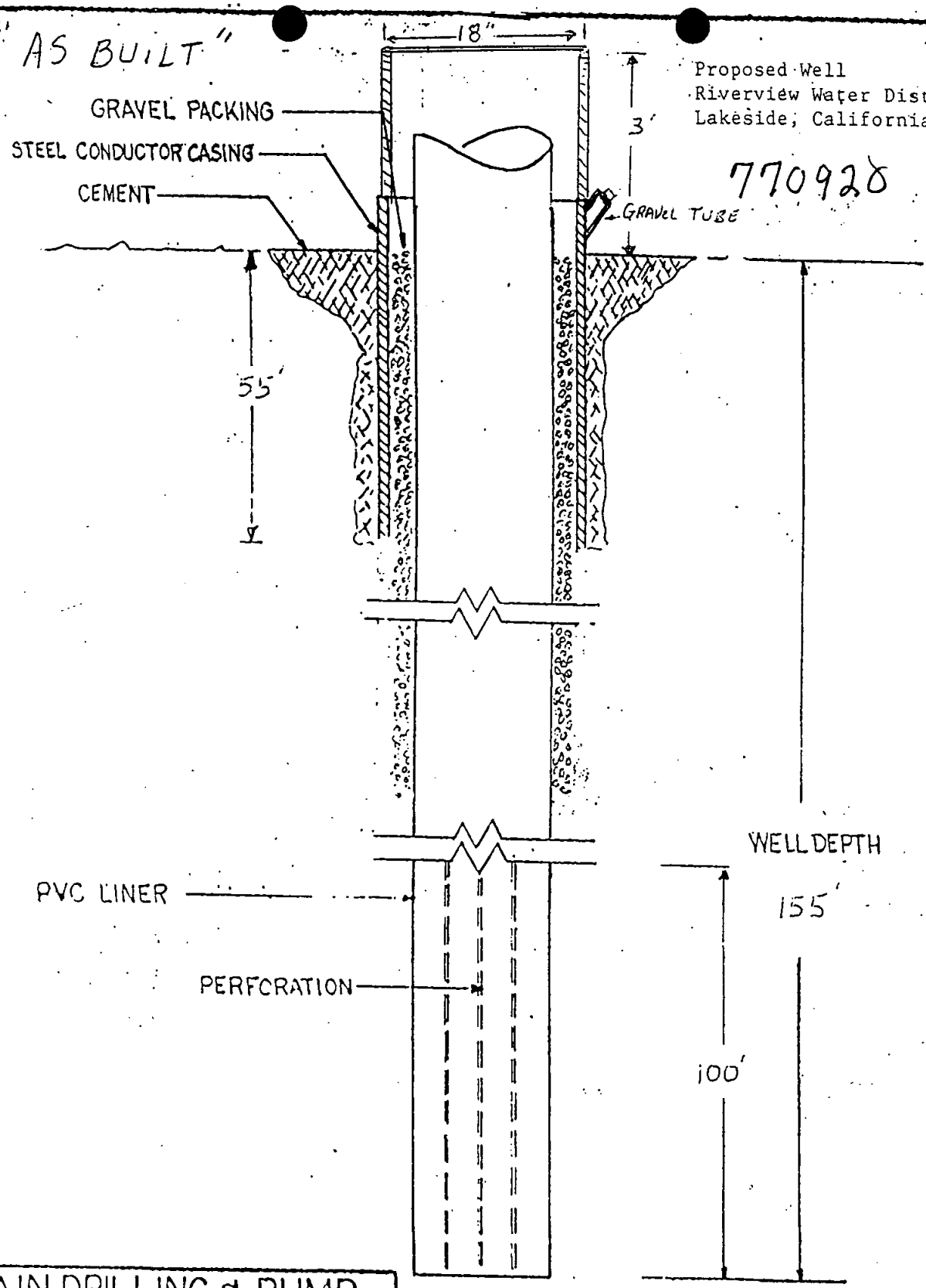
8/18/99
DATE SIGNED

328287
C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

"AS BUILT"



Proposed Well
Riverview Water District
Lakeside, California

770928

-FAIN DRILLING & PUMP-
12029 OLD CASTLE RD.
VALLEY CENTER CA.

STEEL CONDUCTOR 18" X 57'
PVC LINER 10" X 158'
GRAVEL SIZE 5/16 X 16

BY: JRF
JOE FAIN-OWNER

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH

770920 Control #: WO3810

Assessor's Parcel Number: 382-25-28

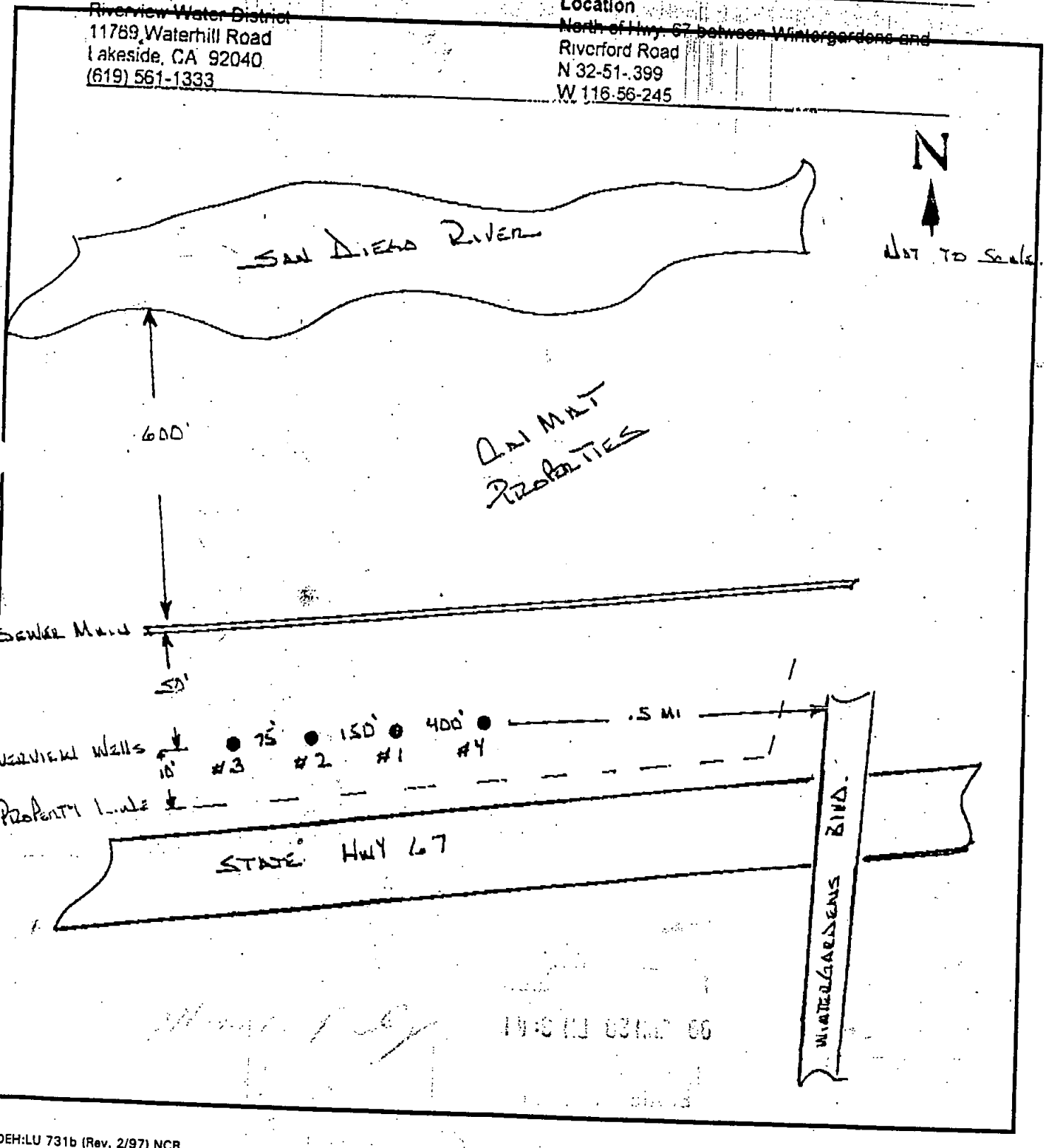
WELL #4

LOCATION 15S/01W-24G012S

Indicate below the vicinity and exact location of well with respect to the following items: Property lines, water bodies or water courses, drainage pattern, roads, existing wells, sewers and private sewage disposal systems and other potential contamination sources, including dimensions.

Owner
Riverview Water District
11769 Waterhill Road
Lakeside, CA 92040
(619) 561-1333

Location
North of Hwy. 67 between Wintergardens and Riverford Road
N 32-51-.399
W 116-56-245



Well 5

ORIGINAL

File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES
WATER WELL DRILLERS REPORT

Do not fill in
No. 171168

Notice of Intent No. W00226
Permit No. or Date

State Well No. 15S, 1W - 23
Other Well No.

(1) OWNER: Name Ken Koske
Address 11423 Woodside-F
City Santee Zip

(2) LOCATION OF WELL (See instructions):
County SD Owner's Well Number
Well address if different from above
Township 32S Range 01W Section 11
Distance from cities, roads, railroads, fences, etc.
of H-1 67

(3) TYPE OF WORK:
New Well ☑ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic
Irrigation ☐
Industrial ☐
Test Well ☐
Stock ☐
Municipal ☐
Other ☐

WELL LOCATION SKETCH

(5) EQUIPMENT:
Rotary ☑ Reverse ☐
Cable ☐ Air ☐
Other ☐ Bucket ☐

(6) GRAVEL PACK:
Yes ☐ No ☑ Size
Diameter of bore
Packed from ft. to ft.

(7) CASING INSTALLED:
Steel ☑ Plastic ☐ Concrete ☐

From ft.	To ft.	Dia. in.	Gage or Wall
0	320	8	145

(8) PERFORATIONS:
Type of perforation or size of screen

From ft.	To ft.	Slot size

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☑ No ☐ If yes, to depth 20 ft.
Were strata sealed against pollution? Yes ☐ No ☑ Interval ft.
Method of sealing Cement

(10) WATER LEVELS:
Depth of first water, if known 150 ft.
Standing level after well completion 20 ft.

(11) WELL TESTS:
Was well test made? Yes ☑ No ☐ If yes, by whom? driller
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test 150 ft. At end of test 150 ft.
Discharge 140 gal/min after 1 hours Water temperature
Chemical analysis made? Yes ☐ No ☑ If yes, by whom?
Was electric log made? Yes ☐ No ☑ If yes, attach copy to this report

(12) WELL LOG: Total depth ft. Depth of completed well 305 ft.
from ft. to ft. Formation (Describe by color, character, size or material)

0 - 10 Topsoil
10 - 145 D6 - Hard Granite
145 - 155 Quartz - D6 Fracture 2 GPM
155 - 245 D6 + Quartz
245 - 255 Fracture 10 GPM
255 - 305 Fractured Quartz with Water
Total 140 GPM

Work started 2-1-86 19 Completed 2-3-86 19

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
SIGNED (Well Driller)
NAME County Well Drilling (Person, firm, or corporation) (Typed or printed)
Address Box 198
City Alpine Zip
License No. 427458 Date of this report 2-25-86

DWR 188 (REV. 7-76) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

NOT FOR PUBLIC RELEASE
WATER WELL SEC. 1370
INCLUDES

Well 6
(4 wells)

ORIGINAL
File with DWR

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

Do not fill in
No. 259752

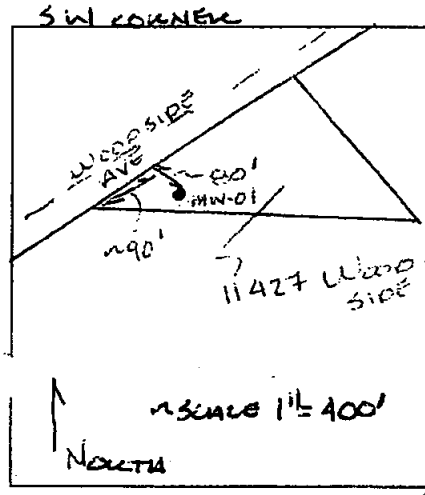
Notice of Intent No. 251910
Local Permit No. or Date 04-26-88

15S 1W-23

State Well No. _____
Other Well No. _____

(1) OWNER: Name BUYWRIGHT OIL
Address 8681 N. MAGNOLIA
City SANTEE, CA ZIP 92071

(2) LOCATION OF WELL (See instructions):
County SAN DIEGO Owner's Well Number MW-01
Well address if different from above 11427 WOODSIDE SANTEE
Township 15S Range 1W Section N/A
Distance from cities, roads, railroads, fences, etc. APPROXIMATELY 80' SOUTH-SOUTH EAST @ 90° FROM POINT ON NW BOUNDARY 90' NE FROM SW CORNER



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☑ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☑
(Describe) MONITORING

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☐ Air ☐
Other ☑ AUGER Bucket ☐

(6) GRAVEL PACK:
Yes ☑ No ☐ Size #3
Diameter of bore 12"
Packed from 20.0 ft. to 46.0 ft.

(7) CASING INSTALLED:
Steel ☐ Plastic ☑ Concrete ☐

(8) PERFORATIONS:
Type of perforation or size of screen SLOTTED

From ft.	To ft.	Dia. in.	Gage or Wall	From ft.	To ft.	Slot size
+0.5	22.0	4"	SCH 40	22.0	46.0	020

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☑ No ☐ If yes, to depth 17.0 ft.
Were strata sealed against pollution? Yes ☑ No ☐ Interval 17.0-20.0 ft.
Method of sealing BENTONITE / BENTONITE GROUT

(10) WATER LEVELS:
Depth of first water, if known ~27 ft.
Standing level after well completion 28.73 (335.17) ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☑ If yes, by whom? _____
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☑ No ☐ If yes, by whom? QA LAB
Was electric log made Yes ☐ No ☑ If yes, attach copy to this report

(12) WELL LOG: Total depth 46 ft. Completed depth 42 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	30'	SILTY SAND GRADING TO SAND, BROWN, MOIST TO WET, SILTY VERY FINE SAND WITH A TRACE CLAY.
30'	46'	SILTY SANDY CLAY; BROWN TO GREY BROWN, SATURATED, SILTY, SANDY CLAY
	46'	= TOTAL DEPTH

Work started 05-11 19 88 Completed 05-11 19 88

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Signed _____ (Well Driller)
NAME MORRISON DRILLING - G. MAXWELL (Person, firm, or corporation) (Typed or printed)
Address P.O. BOX 117
City ALPINE, CA ZIP 92001
License No. 297450 Date of this report 06-02-88

COPY
NOT FOR PUBLIC USE
WATER CODE SEC. 13752
FIELD COPY

DWR 188 (REV. 12-86) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM 86 96355

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

ORIGINAL
File with DWR

WATER WELL DRILLERS REPORT

Do not fill in

No. 259752

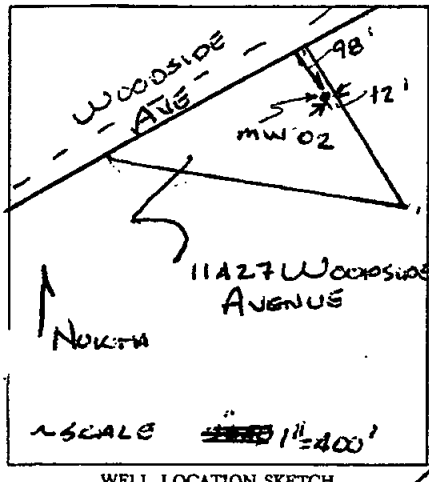
Notice of Intent No. 251910
Local Permit No. or Date 04-26-88

15S, 1W-23

State Well No. _____
Other Well No. _____

(1) OWNER: Name BUSH/WRIGHT OIL
Address 8681 N. MAGNOLIA
City SANTEE, CA ZIP 92071

(2) LOCATION OF WELL (See instructions):
County SAN DIEGO Owner's Well Number MW-02
Well address if different from above 11427 WOODSIDE, SANTEE, CA
Township 15S Range 1W Section N/A
Distance from cities, roads, railroads, fences, etc. APPROXIMATELY 98' SSE AT 90° FROM A POINT 12' FROM NE CORNER



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☑ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☑
(Describe) MONITORING

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☐ Air ☐
Other ☑ AUGER Bucket ☐

(6) GRAVEL PACK:
Yes ☑ No ☐ Size #3
Diameter of bore 12"
Packed from 22 ft. to 46 ft.

(7) CASING INSTALLED:
Steel ☐ Plastic ☑ Concrete ☐

From ft.	To ft.	Dia in.	Gage or Wall	Material
+1.0	24.0	4"	SCH 40	

(8) PERFORATIONS:
Type of perforation or size of screen MILL SLOTTED PVC

From ft.	To ft.	Slot size
24.0	44.0	020

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☑ No ☐ If yes, to depth 19.0 ft.
Were strata sealed against pollution? Yes ☑ No ☐ Interval 19.0-22.0 ft.
Method of sealing BENTONITE / BENTONITE GROUT

(10) WATER LEVELS:
Depth of first water, if known 29' ft.
Standing level after well completion 30.03 (335.17 MSL) ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☑ If yes, by whom? _____
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☑ No ☐ If yes, by whom? QA LABS
Was electric log made Yes ☐ No ☑ If yes, attach copy to this report

(12) WELL LOG: Total depth 46 ft. Completed depth 44 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	7'	SILTY SAND; BROWN, DRY TO MOIST, SILTY FINE SAND
7	22'	SAND; LIGHT BROWN, MOIST, FINE TO MEDIUM, SUBANGULAR GAR SAND WITH A TRACE COARSE AND VERY FINE SAND
22	46	SANDY SILTY CLAY; BROWN, MOIST TO WET, SANDY SILTY CLAY
46		TOTAL DEPTH

Work started 05-12 19 88 Completed 05-12 19 88

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Signed _____ (Well Driller)
NAME MORRISON DRILLING - G. MAXWELL (Person, firm, or corporation) (Typed or printed)
Address P.O. BOX 117
City ALPINE, CA ZIP 92001
License No. 297450 Date of this report 06-02-88

COPY
NOT FOR PUBLIC USE
WATER CODE SEC. 13752
NOT A VALID

DWR 188 (REV. 12-86) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM 86 96355

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

ORIGINAL
File with DWR

WATER WELL DRILLERS REPORT

Do not fill in
No. 259753

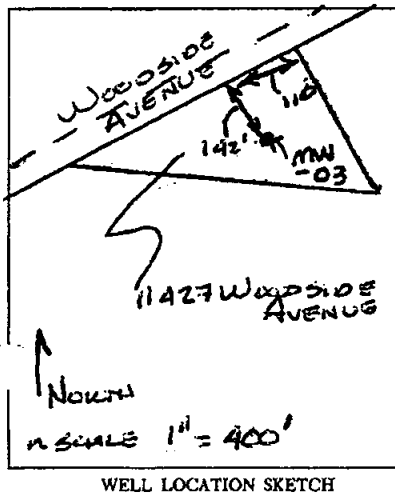
Notice of Intent No. 257910
Local Permit No. or Date 04-26-88

15S/1W-23

State Well No. _____
Other Well No. _____

(1) OWNER: Name BUY WRIGHT OIL
Address 8681 N. MAGNOLIA
City SANTEE, CA ZIP 92071

(2) LOCATION OF WELL (See instructions):
County SAN DIEGO Owner's Well Number MW-03
Well address if different from above 11427 WOODSIDE, SANTEE
Township 15S Range 1W Section N/A
Distance from cities, roads, railroads, fences, etc. APPROXIMATELY 142' SE FROM NW BOUNDARY AT A POINT 110' FROM NE CORNER



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☑ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☑
(Describe) MONITORING

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☐ Air ☐
Other ☑ AUGER Bucket ☐

(6) GRAVEL PACK:
Yes ☑ No ☐ Size #3
Diameter of bore 8"
Packed from 22' to 46' ft.

(7) CASING INSTALLED:
Steel ☐ Plastic ☑ Concrete ☐

From ft.	To ft.	Dia. in.	Gage or Wall
+1.0	24.5	4"	SCH 40

(8) PERFORATIONS:
Type of perforation or size of screen MACHINE SLOTTED

From ft.	To ft.	Slot size
24.5	44.5	020

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☑ No ☐ If yes, to depth 19' ft.
Were strata sealed against pollution? Yes ☑ No ☐ Interval 19.0-22.0 ft.
Method of sealing BENTONITE / BENTONITE GROUT

(10) WATER LEVELS:
Depth of first water, if known 28' ft.
Standing level after well completion 30.83 (335.24 MSL) ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☑ If yes, by whom? _____
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☑ No ☐ If yes, by whom? QA LAB
Was electric log made Yes ☐ No ☑ If yes, attach copy to this report

(12) WELL LOG: Total depth 46 ft. Completed depth 44.5 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	2	FILL; LIGHT BROWN, DRY, SILTY GRAVELLY SAND
2	20	SAND; LIGHT BROWN, MOIST, VERY FINE TO FINE SAND WITH A TRACE SILT
20	24	SANDY CLAY; BROWN, MOIST SAND (V. FINE) CLAY WITH OCCASSIONAL SCATTERED GRAVEL
24	46	SILTY SAND; DARK BROWN, MOIST TO WET, VERY FINE TO FINE SILTY SAND
		TD = 46' TOTAL DEPTH

Work started 05-13 19 88 Completed 05-13 19 88

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Signed _____ (Well Driller)
NAME MORRISON DRILLING - G. MAXWELL (Person, firm, or corporation) (Typed or printed)
Address P.O. 117
City ALPINE, CA ZIP 92001
License No. 297450 Date of this report 06-02-88

NOT A VALID PUBLIC USE WELL
NOT FOR PUBLIC USE
WATER CODE SEC. 3752

DWR 188 (REV. 12-86) IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM 86 96355

STATE OF CALIFORNIA
THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

WATER WELL DRILLERS REPORT

ORIGINAL
File with DWR

Do not fill in
No. 278993

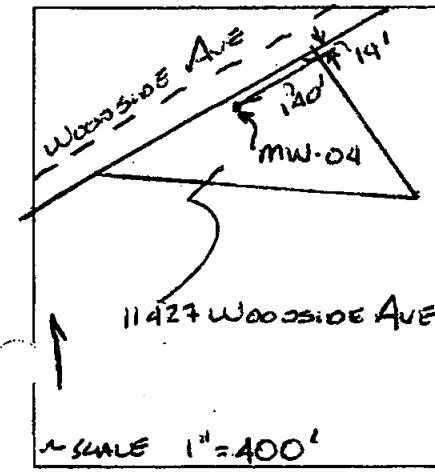
Notice of Intent No. 251910
Local Permit No. or Date 04-26-88

15S/1W-23

State Well No. _____
Other Well No. _____

(1) OWNER: Name BOB WRIGHT OIL
Address 8681 N. MAGNOLIA
City SANTEE, CA ZIP 92071

(2) LOCATION OF WELL (See instructions):
County SAN DIEGO Owner's Well Number MW-04
Well address if different from above 11427
Township 15S Range 1W Section N/A
Distance from cities, roads, railroads, fences, etc. APPROXIMATELY 140' FROM NE CORNER 90° TO SE POINT @ 19'



WELL LOCATION SKETCH

(3) TYPE OF WORK:
New Well ☑ Deepening ☐
Reconstruction ☐
Reconditioning ☐
Horizontal Well ☐
Destruction ☐ (Describe destruction materials and procedures in Item 12)

(4) PROPOSED USE:
Domestic ☐
Irrigation ☐
Industrial ☐
Test Well ☐
Municipal ☐
Other ☑
(Describe) MONITORING

(5) EQUIPMENT:
Rotary ☐ Reverse ☐
Cable ☐ Air ☐
Other ☑ AUGER Bucket ☐

(6) GRAVEL PACK:
Yes ☑ No ☐ Size #3
Diameter of bore 12"
Packed from 20 ft. to 44 ft.

(7) CASING INSTALLED:
Steel ☐ Plastic ☑ Concrete ☐

From ft.	To ft.	Dia. in.	Gage or Wall
+.25	22.0	4"	SCH40

(8) PERFORATIONS:
Type of perforation or size of screen

From ft.	To ft.	Slot size
22.0	44.0	020

(9) WELL SEAL:
Was surface sanitary seal provided? Yes ☑ No ☐ If yes, to depth 17.0' ft.
Were strata sealed against pollution? Yes ☑ No ☐ Interval 17.0-20.0 ft.
Method of sealing BENTONITE / BENTONITE GROUT

(10) WATER LEVELS:
Depth of first water, if known 26.5 ft.
Standing level after well completion 27.68 (335.25 MSL) ft.

(11) WELL TESTS:
Was well test made? Yes ☐ No ☑ If yes, by whom? _____
Type of test Pump ☐ Bailer ☐ Air lift ☐
Depth to water at start of test _____ ft. At end of test _____ ft.
Discharge _____ gal/min after _____ hours Water temperature _____
Chemical analysis made? Yes ☑ No ☐ If yes, by whom? QA. LAB
Was electric log made Yes ☐ No ☑ If yes, attach copy to this report

(12) WELL LOG: Total depth 44 ft. Completed depth 42 ft.

from ft.	to ft.	Formation (Describe by color, character, size or material)
0	0.5	ASPHALT
0.5	5.0	SILTY SAND; BROWN, DRY TO MOIST, SILTY VERY FINE SAND
5.0	18.0	SAND; LIGHT BROWN, MOIST, FINE TO MEDIUM SAND WITH A TRACE COARSE SAND
18.0	22.0	SILTY SANDY CLAY; GREEN BROWN, MOIST TO WET, SILTY SANDY CLAY
22.0	44.0	SAND; LIGHT BROWN, FINE TO MEDIUM SAND WITH A TRACE CLAY, TRACE SILT
	44.0	TOTAL DEPTH

Work started 05-13 19 88 Completed 05-13 19 88

WELL DRILLER'S STATEMENT:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Signed _____ (Well Driller)
NAME MORRISON DRILLING - G. MAXWELL (Person, firm, or corporation) (Typed or printed)
Address P.O. BOX 117
City ALPINE CA ZIP 92001
License No. 297450 Date of this report 06-02-88

NOT PUBLIC USE
VOID
NOT FOR PUBLIC USE
WATER CODE SEC. 13752

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

APPENDIX B

TANK AND PRODUCT PIPING HISTORY

Table B-1 El Capitan Oil Co. – Current and Past Tank Information
Table B-2 El Capitan Oil – Current Dispenser Information

Event 1 Removal of 4 USTs and Installation of 1 UST
Event 2 Product Piping Removal
Event 3 Removal of 8 USTs and Installation of 1-4 Compartment UST

Tank and Product Piping Records and Diagrams

Table B-1: El Ca[illegible]an Oil Co. - Current and Past[illegible]ank Information

Tank Designation	Size	Date	Contents	Status	Installation Date	Removal Date	Removal Group	Comments
Existing USTs								
U-11	4,000	05/88	Racing Gas		05/88			
		05/89	Racing Gas					
		01/92	Racing Gas					
		05/01	Racing Gas	Active Use				
U-10	3,000	11/97	Super Gas		01/98			Compartment Tank
		05/01	Red-Dye Diesel	Active Use				- 20000 Total
U-9	5,000	11/97	UL Gas		01/98			Compartment Tank
		05/01	UL Gas	Active Use				- 20000 Total
U-8	8,000	11/97	Diesel		01/98			Compartment Tank
		05/01	Diesel	Active Use				- 20000 Total
U-7	4,000	11/97	Red-Dye Diesel		01/98			Compartment Tank
		05/01	Prem. UL Gas	Active Use				- 20000 Total
Removed USTs								
RU-1	550	10/78	No Lead		?			
		08/81	UL Gas				R1	Holes? Yes
		08/86	Racing Gas				Tank ID	Odors? Yes
		05/88	Gasoline	Removed		05/88	No. 2	Pipe Leak No
RU-2	5,000	10/78	Prem. Gas		?		R1	Holes?
		08/81	Unused				Tank ID	Odors? Yes
		05/88	Gasoline/Unused	Removed		05/88	No. 4	Pipe Leak Possible
RU-3	800?	10/78	Low Lead Gas		?			
	550	08/81	Kerosene				R1	Holes? No
	880	05/88	Unused (Diesel)				Tank ID	Odors? Yes
	1,000	05/88	Gasoline	Removed		05/88	No. 3	Pipe Leak Yes
RU-4	2,000	10/78	Racing Gas		?			
		08/81	Racing Gas				R1	Holes? No
		08/86	Unused (UL)				Tank ID	Odors? Yes
		05/88	Gasoline	Removed		05/88	No. 1	Pipe Leak Possible
RU-5	7,500	6/80?			?			
		08/81	Reg. Gas					
		05/89	UL Gas					
		01/92	Super Gas					
		03/92	UL Regular					
		03/95	UL Regular				R2	
		07/97	UL Regular				Tank ID	Holes? No
		05/98	Gasoline	Removed		05/98	No. 1	Odors? Slight
RU-6	7,500	6/80?	Unused (Diesel)		?		R2	
		08/81	Diesel				Tank ID	Holes? No
		05/98	Unused (Diesel)	Removed		05/98	No. 2	Odors? Slight
RU-7	550	08/86	Waste Oil		?			
		08/81	Weed Oil					
		01/92	Waste Oil					
		03/95	Waste Oil				R2	
		07/97	Waste Oil				Tank ID	Holes? Yes
		05/98	Waste Oil	Removed		05/98	No. 3	Odors? Slight
RU-8	550	08/86	Kerosene		?			
		05/89	Solvent					
		08/81	Solvent					
		01/92	Solvent					
		03/93	Solvent					
		03/95	Kerosene				R2	
		07/97	Solvent				Tank ID	Holes? No
		05/98	Waste Oil	Removed		05/98	No. 5	Odors? Slight

Table B-1: El Ca[illegible]an Oil Co. - Current and Past[illegible]ank Information

Tank Designation	Size	Date	Contents	Status	Installation Date	Removal Date	Removal Group	Comments
RU-9	2,500	08/86	Solvent		?			
		05/89	Reg. Gas					
		01/92	Reg. UL Gas					
		03/93	Reg. UL Gas					
		05/95	UL Sup. Gas				R2	
		10/97	UL Sup. Gas				Tank ID	Holes? ?
		05/98	Gasoline	Removed		05/98	No. 4	Odors? Slight
RU-10	6,000	6/80?	Diesel		?			
		08/86	Diesel					
		05/89	Diesel					
		08/91	Diesel					
		01/92	Diesel					
		03/92	Diesel				R2	
		07/97	Diesel				Tank ID	Holes? No
		08/98	Diesel	Removed		05/98	No. 6	Odors? Slight
RU-11	6,000	08/86	Diesel		?			
		05/89	Diesel					
		08/91	Diesel					
		01/92	Diesel					
		03/92	Diesel				R2	
		07/97	Diesel				Tank ID	Holes? No
		08/98	Diesel	Removed		05/98	No. 7	Odors? Slight
RU-12	6,000	01/92	Diesel		?			
		08/91	Diesel					
		03/92	Diesel				R2	
		07/97	Diesel				Tank ID	Holes? No
		08/98	Diesel	Removed		05/98	No. 8	Odors? Slight
RU-13	6,000	08/91	Diesel		?			
		03/92	Diesel					
		07/97	Diesel				R2 Tank	Holes? No
		08/98	Diesel	Removed		05/98	ID No. 9	Odors? Slight
Existing ASTs								
A-1	6,000	11/93	Empty		?			
		05/01	15W-40 Oil	Active Use				
A-2	10,000	11/93	Empty		?			
		05/01	AW-68 Hyd. Oil	Active Use				
A-3	6,000	11/93	40W Oil		?			
		05/01	HD-30W Oil	Active Use				
A-4	6,000	11/93	Hyd. Oil		?			
		05/01	HD-40W Oil	Active Use				
A-5	10,000	11/93	30W Oil		?			
		05/01	Diesel	Active Use				
A-6	10,000	11/93	Empty		?			
		05/01	Red-Dye Diesel	Active Use				
A-12	6,700	08/81	Stove Oil		?			
		11/93	Kerosene					
		04/98	Red-Dye Diesel					
		05/01	Red-Dye Diesel	Active Use				
A-13	3,400	08/81	Stove Oil		?			
		11/93	Empty					
		04/98	Diesel					
		05/01	Diesel	Active Use				

Table B-1: El Capitan Oil Co. - Current and Past Tank Information

Tank Designation	Size	Date	Contents	Status	Installation Date	Removal Date	Removal Group	Comments
A-14	6,700	08/81 11/93 04/98 05/01	Diesel Empty Diesel Diesel		?			
A-15	900	12/02	Mineral Spirits	Active Use	?			
A-16	550	12/02	Mineral Spirits	Active Use	?			Inside Bld.
A-17	500 550	05/96 05/01	Solvent Waste Oil	Active Use Active Use	?			 Convault-Type Tank
A-18	550	11/93	Solvent	Active Use	?			
A-19	1,000	08/91 11/93 05/01	Solvent Solvent Solvent	 Active Use	?			
A-20	1,000	12/02	Kerosene	Active Use	?			Inside Bld.
A-21	500	12/02	Former Trick Gas	Inactive	?			Convault-Type Tank
A-22	500	12/02	Former Trick Gas	Inactive	?			Convault-Type Tank
A-23	500?	12/02	Propane	Active Use	?			
Removed ASTs								
RA-1	300?	11/93	Propane	Removed	?			

Table B-2: El Capitan Oil - Current Dispenser Information

Dispenser	Product	Comments	Dispenser	Product	Comments
1	G? & D	Island and Dispenser Removed	15	D	
2	G? & D	Island and Dispenser Removed	15S	D	
3	D		16	D	
3S	D		17	D	
4	D		18	D	
5	G		18S	D	
6	G		19	G	
7	D		20	G	
8	D		21	D	
9	D		21S	D	
10	D		22	D	
11	G		23	D	
12	G		24	G	
13	G		25	G	
14	D				

Notes: G = Gasoline
D = Diesel
? = Questionable Record

EVENT 1

Removal of 4 USTs and Installation of 1 UST

EST. # H19469 HD
P.C. # NT0474

2640

HAZARDOUS MATERIALS MANAGEMENT
ABANDONED UNDERGROUND TANK REPORT

☒ ☐ YES FIRE AGENCY ☐ NO

FIRE AGENCY PERMIT # Santee

JURISDICTION

PHONE

C.G.I.

OF TANKS TO BE ABANDONED 4

SITE NAME/ADDRESS Bay Wright Oil 11427 Woodside Santee ZIP 92071

CONTRACTOR Owner/operator PHONE 448-5841

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5
1. Tank ID #	006			005	
2. U/L #					
3. Capacity (Gallons)	2000	550	880	5000	
4. Material Stored	gas	gas	Diesel	Diesel	
5. Decontamination:					
Manifest Available?	yes	yes	yes	yes	
6. Tank Inerting: (CGIRDS)					
Dry Ice/Nitrogen (Qty)	3#	0	0	0	
7. Tank Condition (Holes)	50#	20#	25#	100 lbs	
8. Condition of Back Fill & Type	No	Yes	No	No	
9. Condition of Native Soil/Type	Sand	Sand	Sand	Sand	
10. Odors From Excavation?	Sandy/Clay	Sandy/clay	Sandy/clay	Sandy/clay	
11. Ponded Product?	yes	yes	yes	yes	
12. Ground Water Contamination	No	No	No	No	
13. Tank Closure In Place	?	?	?	?	
14. Pipeline Leak Evident?	No	No	No	No	
15. Reinspection Required?	possible	No	yes	possible	
16. Reinspection Receipt Available?	No	No	No	No	
	N/A	N/A	N/A	N/A	

REMARKS: Manifest No. 87184734
Transporter: Vern Tr. Co.
To: Demenno/Herdon
300 gal. fiberglass tk.
#1) Discoloration of soil in area where piping entered hole.
#2) Soil discolored under bottom of tank
#3) Soil discolored under tank No. Holes, possible pipeline leak.
#4) Soil discolored under fill spout of tank.
Ground water approx. 30 ft. deep. Sandy

NOTICE: You are hereby notified that on Multiples, Dick Thurlow (May 25 1988), Hazardous Materials Specialist of County Department of Health Services, conducted an inspection for the removal and/or abandonment of 4 (four) underground storage tanks of hazardous substances. A summary of conditions found is noted as follows:

☐ No indication of soil or groundwater contamination apparent this date. Excavation may be backfilled.

☒ The conditions noted below must be reported and corrected in accordance with Chapters 6.5 and 6.7 of the California Health and Safety Code and Chapters 9 and 10 of the San Diego County Code.

☐ Hazardous substance/waste is ponded in the excavation. Immediately take steps to remove the ponded hazardous liquid from the excavation. This liquid is a hazardous waste that shall be properly transported, under manifest, by a licensed hazardous waste hauler to a licensed recycling or disposal facility.

☒ Contaminated soil and/or contaminated groundwater is suspected in the excavation. Determining the extent and impact of this contamination and completing any required clean-up is the responsibility of the tank owner/operator. Within 5 work days, the tank owner/operator or his agent must submit a written UNAUTHORIZED RELEASE REPORT to the Department of Health Services including all of the following information that is known at the time of filing the report:

a. Describe the type, quantity and concentration of the hazardous substance released.
b. Provide the results of all investigations completed at this time to determine the extent of soil, groundwater, or surface water contamination due to the release.
c. Describe the method of cleanup implemented to date, proposed cleanup actions, and approximate costs of actions taken to date.
d. Indicate the method and location of disposal of the released hazardous substance and any contaminated soils or groundwater or surface water. (If any contaminated soil/water is hauled off-site, include copies of the hazard waste manifests).
e. Include the tank operator's name and telephone number, the name and telephone number of any consultants retained, and a projection of proposed activity schedule.

Subsequent mitigation actions will be discussed upon review of the submitted Report and consultation with other appropriate agencies.

- REFER TO REVERSE SIDE FOR ADDITIONAL INFORMATION/REQUIREMENTS -

Received by Vernon F. Tramway

Phone # 619 562-3152

Richard J. Thurlow
Hazardous Materials Specialist Signature

County of San Diego
Department of Health Services
HMMU - 1700 Pacific Highway
San Diego, CA 92101-2489
(619) 236-2222

DHS:HM-9160 (11/86)

TR

2 C 41

HAZARDOUS MATERIALS MANAGEMENT DIVISION
UNDERGROUND STORAGE TANK INSTALLATION REPORT

EST. # H19468
P.C. # NT0974

TANKS TO BE INSTALLED 1 (one)
SITE NAME Buy Wright Oil PHONE 448-5891
ADDRESS 11427 Woodside Rd. San ZIP 92071
CONTRACTOR Ken Sharp Constr. PHONE 562-3152

[X] YES FIRE AGENCY [ ] NO
FIRE AGENCY PERMIT #
JURISDICTION Santee
PHONE

TANK SET (1st Inspection) By D. Thurlow Date 5/27/88

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
1. Tank Type/Mfg						
2. UL #	507808					
3. Capacity (Gallons)	4000 gal					
4. Material to be Stored	racing gasoline					
5. Type of Native Soil	Sand					
6. Depth of Excavation	12 ft.					
7. Anchoring (High Groundwater)	NO					
8. HMMD Approved Plans on Site (Y/N)	N					
9. Back Fill Material	pea gravel					
10. Installation Matches Drawings? (Check Setbacks) (Y/N)	N/A					
11. Contractors Holiday Certification Submitted (Y/N/NA	N/A					
12 Cathode Protection? (Y/N)	N/A					
13 Reinspection Required? (Y/N)	NO					
14 Tank Set Approved? (Y/N)	Y					

PRESSURE TEST (2nd inspection) By _____ Date _____

A. Product Bearing Lines @ 75psi (From/To)						
B. Vent, Vapor, Suction, Remote Fills, Gravity Lines @ 5psi (From/To)						
C. Primary System Tank & Pipes @ 5psi (From/To)						
D. Secondary Containment @ 5psi (From/To)						
E. Ball Float Valves on Vent and Vapor Return (Y/N)						
F. Level Sensing Device Installed?						
G. All Metal Piping Wrapped or Cathodically Protected? (Y/N)						
H. Re-Inspection Required? (Y/N)						
I. PRESSURE TEST APPROVED?						
J. Contractor's Hand Tamping Certification Submitted (Y/N/NA)						

REMARKS

SEE REVERSE FOR PLOT PLANS

County of San Diego
Department of Health Services
HMMU P.O. Box 85261
San Diego, CA 92138-5261

H19469

SANTEE FIRE PROTECTION DISTRICT
Bureau of Fire Prevention
8950 Cottonwood Avenue
Santee, California 92071
Phone: 448-3648

"HMMU"

6/3/88 FILE MON "NT" FILE

JUN 2 4 23 PM '88

FLAMMABLE LIQUID STORAGE PERMIT

DATE 5-18-88

Company installation made for: Buy Wright Oil Co.
Address of installation: 11427 Woodside Av.
Name of company making installation: Owner/operator
Address of installer: Same

NO TANKS SHALL BE INSTALLED CLOSER THAN FOUR (4) FEET FROM ANY PROPERTY LINE OR BUILDING. ALL TANKS SHALL BE COVERED WITH THREE (3) FEET OF EARTH UNLESS CIRCUMSTANCES PREVENT SAME. ALL ENCROACHMENT PERMITS SHALL BE SECURED BEFORE PERMIT IS ISSUED. TANKS SHALL BE UNDERWRITER APPROVED OR EQUIVALENT.

NO. OF TANKS	WORK PERFORMED: NEW, REMOVED, ETC.	TANK CAPACITY IN GALLONS	USE OF STORED LIQUID: RETAIL, PRIVATE, ETC.	TYPE OF LIQUID STORED: GASOLINE, KEROSENE, ETC.	TANK SERIAL NO.
1	New	4000	Retail	Gasoline	
1	Remove	2000	"	Gasoline	
1	Remove	1000	"	Gasoline	

TYPE OF STORAGE: ABOVE GROUND, BELOW GROUND	TYPE OF SUPPLY: REMOTE OR INDIVIDUAL PUMP	DISTANCE INSTALLED FROM BUILDING	DISTANCE INSTALLED FROM PROPERTY LINE	TANK SERIAL NO.
Below	Remote	30'	100'	
"	Pump	30'	~~5~~ 100'	
"	Pump	~~5~~ 10'	100'	

DIMENSION OF PROPERTY WHERE TANKS ARE TO BE INSTALLED ± 500 FT. X 800 FT. approx.

NUMBER AND CAPACITY OF EXISTING TANKS: NO. See Attached.
NO. _____
NO. _____ TOTAL CAP. 47,500 gallons
Gas, Oil, Solvent, Kerosene.

TOTAL CAPACITY OF NEW AND EXISTING TANKS New - 4,000 Existing 45,500

LOCATION OF REMOTE CONTROL EMERGENCY SWITCH Backside & Front of Building

THIS APPLICATION SHALL BE COMPLETED PRIOR TO INSPECTION. WHEN READY FOR INSPECTION, TELEPHONE 448-3648.

SUBMITTED BY: Dennis F. Hanaway ADDRESS 11427 Woodside Av. Santee

---

THESE TANKS MUST BE INSTALLED ACCORDING TO LAW AND WORK SHALL NOT BE STARTED BEFORE PERMIT IS ISSUED. NO TANKS OR PIPING SHALL BE COVERED BEFORE THEY HAVE BEEN INSPECTED BY THE FIRE MARSHAL OR HIS DEPUTY.

PERMIT APPROVED R. Hutto 5/18/88

INSTALLATION APPROVED R. Hutto 5/18/88

(See other side for Inspection Procedure)

SANTEE FIRE PROTECTION DISTRICT
Bureau of Fire Prevention
8950 Cottonwood Avenue
Santee, California 92071
Phone: 448-3648

FLAMMABLE LIQUID STORAGE PERMIT DATE 5-18-88

Company installation made for: Bay Wright o.i.c
Address of installation: 11427 Woodside
Name of company making installation: Owner/operator.
Address of installer:

NO TANKS SHALL BE INSTALLED CLOSER THAN FOUR (4) FEET FROM ANY PROPERTY LINE OR BUILDING. ALL TANKS SHALL BE COVERED WITH THREE (3) FEET OF EARTH UNLESS CIRCUMSTANCES PREVENT SAME. ALL ENCROACHMENT PERMITS SHALL BE SECURED BEFORE PERMIT IS ISSUED. TANKS SHALL BE UNDERWRITER APPROVED OR EQUIVALENT.

NO. OF TANKS	WORK PERFORMED: NEW, REMOVED, ETC.	TANK CAPACITY IN GALLONS	USE OF STORED LIQUID: RETAIL, PRIVATE, ETC.	TYPE OF LIQUID STORED: GASOLINE, KEROSENE, ETC.	TANK SERIAL NO.
1	Remove	550	Gasoline Retail	Gasoline	—
1	Remove	5000	Gasoline Retail	Gasoline	—

TYPE OF STORAGE: ABOVE GROUND, BELOW GROUND	TYPE OF SUPPLY: REMOTE OR INDIVIDUAL PUMP	DISTANCE INSTALLED FROM BUILDING	DISTANCE INSTALLED FROM PROPERTY LINE	TANK SERIAL NO.
Below	Pump	50'	100'	
Below	Pump	60'	15'	

DIMENSION OF PROPERTY WHERE TANKS ARE TO BE INSTALLED _____ FT. X _____ FT.

NUMBER AND CAPACITY OF EXISTING TANKS: NO. _____
NO. _____ TOTAL CAP. _____
NO. _____

TOTAL CAPACITY OF NEW AND EXISTING TANKS _____

LOCATION OF REMOTE CONTROL EMERGENCY SWITCH _____

THIS APPLICATION SHALL BE COMPLETED PRIOR TO INSPECTION. WHEN READY FOR INSPECTION, TELEPHONE 448-3648.

SUBMITTED BY: Dennis Fransway ADDRESS 11427 Woodside Santee

THESE TANKS MUST BE INSTALLED ACCORDING TO LAW AND WORK SHALL NOT BE STARTED BEFORE PERMIT IS ISSUED. NO TANKS OR PIPING SHALL BE COVERED BEFORE THEY HAVE BEEN INSPECTED BY THE FIRE MARSHAL OR HIS DEPUTY.

PERMIT APPROVED _____

INSTALLATION APPROVED _____

(See other side for Inspection Procedure)

INSPECTION PROCEDURE

I. Complete application form and when hole is ready for tank, call for initial inspection.

II. When tank is in hole and piped, and pressure is on line, call for inspection prior to covering tank.

III. Call for final O.K. when pump is installed and hole is filled.

We will issue a use permit to the occupant.

2 c 3 (

County of San Diego
Department of Health Services

UNDERGROUND HAZARDOUS MATERIALS STORAGE TANK FACILITY

PART II

APPLICATION FOR A PERMIT TO CONSTRUCT

A. Total number of tanks to be installed One (1)

B. Type of primary containers:

Tank #	Manufacturer	Composition	Capacity	Double or Single Wall	Material to be Stored
1	XERXES	FIBERGLASS	4K	DOUBLE	GASOLINE
2					
3					
4					

Attach additional sheets as needed for primary containers.

C. Type of secondary containment:

|XX| Double Wall Tanks |___| Flexible Liner (liner thickness) _____

|___| Vault |___| Other _____

Manufacturer XERXES

If other than Double Wall Tanks, will all tanks be in the same secondary containment enclosure? Explain N/A

Will a system be installed to de-water the containment area? Explain N/A

D. Tank leak detection/monitoring system:

|XX| Continuous monitoring device within the secondary containment, connected to an audible/visual alarm system.

Manufacturer M.S.A. - Liquid Probes

|___| Daily manual monitoring of the space between the primary and secondary containers using "dip stick" readings or visual determination.

Please specify: _____

|___| Daily Inventory Control/Records reconciliation (for motor vehicle fuels only)

NOTE: If daily gauging and records reconciliation is to be used as the monitoring system, a letter from the property owner must be provided to this Department outlining the frequency and method of monitoring the space between the primary and secondary containers, as well as a statement that the tanks will be tested using an approved testing method every year.

|___| Other. Explain _____

5. Location and detail of monitoring/leak detection systems
6. Location of underground utility lines and vaults
7. Site address, property lines, scale, north arrow
8. Surface elevation and location of 100 year flood plain, if applicable
9. Equipment summary

M. Required Inspections - New Tank Installations

Each new tank installation must be inspected by the DHS at each of the following stages:

1. installation of secondary containment (liner) system, where applicable
2. delivery and test of tank on site; excavation complete; placement of tank in excavation
3. product line and associated piping - pressure test on lines and tank; overfill protection devices installed
4. monitoring system installed; monitor ports brought to surface

Projects involving repiping only will normally require just one inspection (at the line pressure-test stage).

Please refer to "Underground Tank Inspection Record - New Tank Installation" (DHS:HW-914) for additional details, or call 236-2222.

N. I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain a permit from the Department of Health Services (DHS) and that no work is to begin on this project until the permit is issued.

I understand that any changes in design, materials or equipment will void my permit to construct if prior approval is not obtained.

I understand that a permit to operate the underground storage tank system must be obtained from the Department within 60 days of putting the system into use. This is the responsibility of the tank owner. Conditions of the permit to operate include an acceptable tank monitoring and testing schedule, submittal of an annual report form, and regular inspection by the DHS.

I will notify the Department of Health Services at least two working days (48 hours) in advance to schedule each required inspection. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of San Diego.

Signature & Title: Ken Sharp Construction Mgr

Print Name Ken Sharp

Telephone (619) 562-3152

Date 4-7-88

2635

County of San Diego
Department of Health Services

UNDERGROUND HAZARDOUS MATERIALS STORAGE TANK FACILITY

PART III

APPLICATION FOR PERMIT TO ABANDON

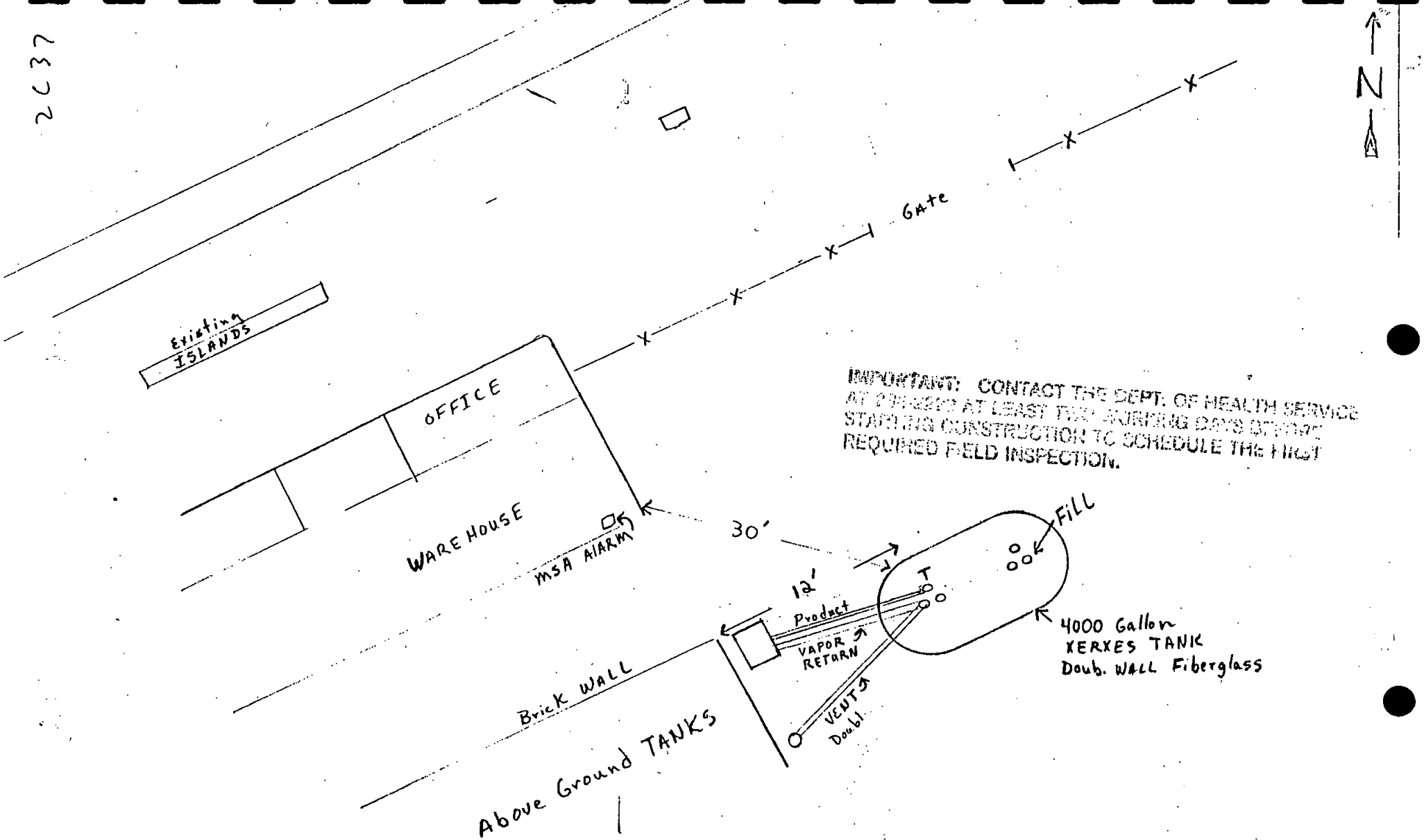
Complete all sections of Part III. If information is not known or applicable please indicate on application.

A. Total number of tanks to be ~~abandoned~~ removed 4

B. Tank Information - Complete the following information for each tank to be abandoned. Attach additional sheets as necessary.

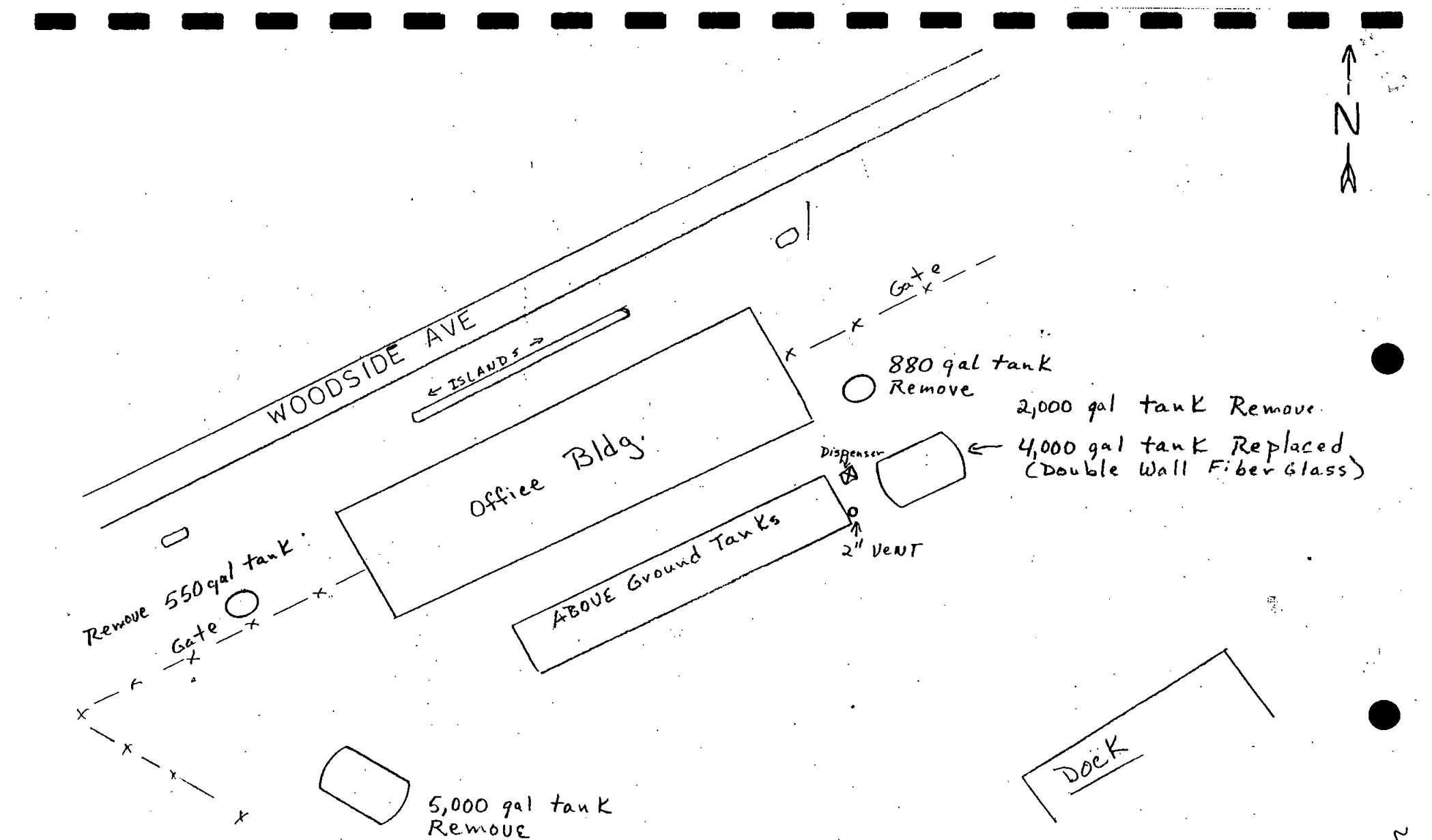
Tank Number (Label tanks on plot plan to correspond to application)		1	2	3	4
Tank Capacity (gallons)		2000 Gal.	550	880	5000
Date Tank Installed		Unknown	Unknown	Unknown	Unknown
Tank Composition (Steel, Fiberglass, Fiberglass Coated Steel, Concrete, etc.)		Steel	Steel	Steel	Steel
Tank Manufacturer		Unknown	Unknown	Unknown	Unknown
Tank Presently in Use? (Yes-No)		No			
Materials Stored in Tank	Material: dates:	Gasoline to	Gasoline to	Gasoline to	Gasoline to
	Material: dates:	to	to	to	to
Has Tank System Leaked? (Yes, No, Not Known)	Tank	Not Known	No	~~Discovered~~	~~Discovered~~ Unk
	Piping	Possible		Unk ~~03-18-88~~	~~03-18-88~~
Basis of determination (Inventory records, tank system testing/monitoring, environmental monitoring)		Inventory Records			
Is any part of the system cathodically protected? (Yes-No-Not Known)					
	Tank	No			
	Piping Lines	No			
Piping materials		Steel (Galv)			

2637



IMPORTANT: CONTACT THE DEPT. OF HEALTH SERVICE AT [illegible] AT LEAST TWO WORKING DAYS BEFORE STARTING CONSTRUCTION TO SCHEDULE THE FIRST REQUIRED FIELD INSPECTION.

Buy Wright Oil Co	
11427 Woodside AV.	
SANTEE CA	
LINE Location	5-3-88 D77



SPECS:
EMCO WHEATON BALANCE - COAX
3005 NOZZLE
SLOPE: > 1/4" per Foot.

BUY WRIGHT OIL CO
11427 WOODSIDE AVE
SANTEE, CA

DATE: 2-24-87

EVENT 2

Product Piping Removal

2093

SITE ASSESSMENT AND MITIGATION DIVISION

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT

ESTABLISHMENT NO. H19469 PLAN CHECK NO. NT1976

SITE NAME El Capitan #1 PHONE

SITE ADDRESS 11427 Woodside Ave. CITY Santee ZIP 92071

CONTRACTOR GTB PHONE 579-3604

Number of tanks to be removed: 0 1 2 3 4 5 6 7 8 ___

Decontamination by NA

Manifest No.

Tank rinsate/(amount & destination)

FIRE AGENCY PRESENT YES (NO)

Dept.

Permit No.

Inspector

Tank ID No.					REMARKS
Capacity					
Tank Construction					
Materials stored	Gasoline Diesel				Piping Removal Only
% L.E.L.	NA				
Dry ice/other (amt.)	NA				
Tank condition	NA				
Backfill soil type	Sandy silt				
Backfill condition	OK				
Native soil type	Sand				
Native condition	OK				
Excavation odors?	Slight				
Stockpile odors?	Slight				
Water present?	NO				
Ponded product?	NO				
Piping removed?	Yes				

REINSPECTION REQUIRED YES (NO) If yes, explain

NOTICE: You are hereby notified that on 10/7/97, a Hazardous Materials Specialist conducted an inspection for the closure of Piping hazardous substance underground storage tank(s). A summary of the conditions follows:

☐ An **unauthorized release** of a hazardous substance has been observed by the Hazardous Materials Specialist. You are hereby required to initiate **Corrective Action** measures (see Page 4 for details).

☒ A determination of this site's status is pending the Site Assessment and Mitigation (SAM) Division's receipt and review of analytical results for the samples taken from the tank and/or piping closure site. A laboratory report must be submitted to SAM within 30 days. Please request that the laboratory send a copy of the analytical report directly to Mary Peters at the address provided below.

SAM Division has completed its review of the analytical results for samples collected at the tank closure site and has determined the following:

☒ TANK CLOSURE COMPLETE - NO FURTHER ACTION REQUIRED

☐ INITIATE CORRECTIVE ACTION MEASURES (See enclosed information)

Approved by: MIKE VERNETTI Date Reviewed: 11/3/97 Supervisor (initial): MV

RECEIVED BY

PRINTED NAME MARK KUNZE

PHONE NUMBER (619) 579-3604

Mary Peters
Hazardous Materials Specialist
SAM - P.O. Box 85261
San Diego, CA 92186-5261 (619) 338-2222

DISTRIBUTION: WHITE-RETURN TO SAM
YELLOW-BUSINESS RETAINS

2C94

teg

RECEIVED
Oct 27 2 36 PM '97
ENVIRONMENTAL
HEALTH SERVICES

GTB COMPANY PROJECT #19469-NT1976
EL CAPITAN OIL
11427 WOODSIDE AVENUE
SAN DIEGO, CA

TEG Project #971007-10

TPH (DOHS EPA Method 8015 Modified) ANALYSES OF SOILS

SAMPLE NUMBER	DATE ANALYZED	TPH-GAS C5-C11 (mg/kg)	TPH-DIESEL C12-C24 (mg/kg)
METHOD BLANK	10/10/97	ND	ND
P-1	10/10/97	18	5,537
P-1 DUP	10/10/97	43	9,799
P-2	10/10/97	175	21,218
P-3	10/10/97	ND	ND
P-4	10/10/97	30	9,584
P-5	10/10/97	65	3,025
P-6	10/10/97	136	6,624
P-7	10/10/97	467	13,372
P-8	10/10/97	2,279	10,632
P-9	10/10/97	3,043	5,759
P-10	10/10/97	224	115,444
DETECTION LIMITS		10	10

ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1839)
ANALYSES PERFORMED BY: MS. SHERI HARTMAN
DATA REVIEWED BY: Sheri Hartman
10-20-97

SAM Chain-of-Custody Record

Date 10/7/97 Page 1 of

Project Name El Capitan Oil
Reference
Address 11427 Woodside Ave

Sampler's Signature
Lab To Be Used TEG Project # 971007-10

SAMPLE NO.	DATE	TIME	LOCATION	TPH 5-d DOHS METHOD	TRPH EPA 418.1	BTXE (8020/602)	HALOGENATED (8010/601)			SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
P-1	10/7/97	325 pm	5' North of Bldg at dispenser 3' BGS	X						X		X		1	
P-2	"	330 pm	20' N of P-1 3' BGS	X						X		X		1	
P-3	"	335 pm	21'4" W of P-2 3' BGS	X						X		X		1	
P-4	"	338 pm	24½' W of P-3 3' BGS	X						X		X		1	Run Gas + Diesel
P-5	"	341 pm	3' W of P-4 3' BGS	X						X		X		1	
P-6	"	345	4' W of P-5 3' BGS	X						X		X		1	
P-7	"	348	4' W of P-6 3' BGS	X						X		X		1	
P-8	"	353	11'6" W of P-7 3' BGS	X						X		X		1	
P-9	"	353	515" W of P-8 3' BGS	X						X		X		1	
P-10	"	357	3' BGS 20' S of P-9	X						X		X		1	

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
Signature	10/7/97	Signature	10-7-97	Signature	
MARK KINDE	Time	BILL PERKS	Time		Time
Printed Name	4:26	Printed Name	5:15	Printed Name	
GTB COMPANY	Date	GTB COMPANY	Date		Date
Company		Company		Company	
RECEIVED BY		RECEIVED BY	10/7/97	RECEIVED BY (LAB)	
Signature		Signature		Signature	
BILL PERKS	Time	MARY ANN THORPE	Time		Time
Printed Name	4:26	Printed Name	5:15	Printed Name	
GTB COMPANY		TEG			
Company		Company		Company	

COPY OF LAB RESULTS MUST BE SENT TO:
Dept. of Environmental Health
Site Assessment and Mitigation Division
P.O. Box 85261
San Diego, CA 92186-5261

10 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice (Yes/No)
Tape Seal Intact (Yes/No)
Special Shipment/Handling Or Storage Requirements:

Split Sample Location

Site Identification
H# 1969 AT# NT1976
SAM Peters

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - SAM

DEH:SAM-999 (8/95) NCR

County of San Diego
Department of Environmental Health

2696

PERMIT APPLICATION
PART II
APPLICATION FOR PERMIT TO CONSTRUCT UNDERGROUND STORAGE TANK FACILITY

BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER-Call (916) 739-2582 for information

HT HQ 49 - 100939

TY (TK) HQ | 4 | 4 | - | | | | | | |

NOTE: Application will be disapproved without this information

A. TOTAL NUMBER OF TANKS TO BE INSTALLED 4

B. TYPE OF PRIMARY CONTAINMENT

TANK NO.	MANUFACTURER	COMPOSITION	CAPACITY	STORAGE MATERIAL
1	Modern	Plas steel	3,000	Super
2	Modern	Plas steel	5,000	Unleaded
3	Modern	Plas steel	8,000	Diesel
4	Modern	Plas steel	4,000	Red Dyed Diesel

C. TYPE OF SECONDARY CONTAINMENT

- ☒ Multiple compartment double wall tanks
- ☐ Double wall tanks ☐ Concrete Vault
- ☐ Flexible liner (manufacturer) _____
- Other, briefly describe _____

D. MANUFACTURER DISPENSER CONTAINMENT American Containment and

- ☐ Mechanical Monitoring
- ☒ Electronic Monitoring Universal DLS-01 Model
- ☐ Other (Liquid probe sensor)

E. UNDERGROUND STORAGE TANK LEAK DETECTION SYSTEM

- ☒ Continuous leak detection device within the secondary containment, connected to an audible/visual alarm system
  Manufacturer/Model No. Veeder Root TLS-350
- ☐ Daily monitoring of the space between the primary and secondary containments using "dip stick" readings.
  NOTE: THIS METHOD IS AVAILABLE FOR MOTOR VEHICLE FUEL STORAGE ONLY.
- ☐ Other, briefly describe _____

F. UNDERGROUND STORAGE TANK PIPING MATERIALS AND CONSTRUCTION

PRODUCT PIPING: Primary containment Omniflex Coaxial Piping

Secondary containment Enviroflex Secondary Piping

VAPOR, VENT, FILL PIPING: Primary containment 2" Fiberglass / 3" Fiberglass
(fittings and unused bungs)

Secondary containment Containment Sump

2097

PERMIT APPLICATION
PART III
APPLICATION FOR PERMIT TO CLOSE UNDERGROUND STORAGE TANK SYSTEM

A. TOTAL NUMBER OF TANK SYSTEMS TO BE CLOSED 8
NOTE: UST SYSTEMS INCLUDE TANK AND ALL ASSOCIATED PIPING.

B. DESCRIPTION OF TANKS TO BE CLOSED:

TANK NO.	CAPACITY	DATE INSTALLED	TANK COMPOSITION	TANK PRESENTLY IN USE?	MATERIALS STORED IN TANK
1	6,000 ✓	N/A	Steel	NO	Diesel
2	6,000 ✓	N/A	Steel	NO	Diesel
3	6,000 ✓	N/A	Steel	YES	Diesel
4	6,000 ✓	N/A	Steel	YES	Diesel
5	2,500 ✓	N/A	Steel	YES	Super
6	7,500 ✓	N/A	Steel	YES	Unleaded
7	550 ?	N/A	Steel	NO	Solvent
8	550 ✓	N/A	Steel	NO	Waste Oil

C. HAS THE TANK SYSTEM EVER FAILED OR LEAKED? YES ☐ NO ☐ UNKNOWN ☒

D. REASON FOR TANKS TO BE CLOSED:

☒ Meet current state/federal requirements

☐ Replacement of existing tanks

☐ Tank system failure, briefly describe _____

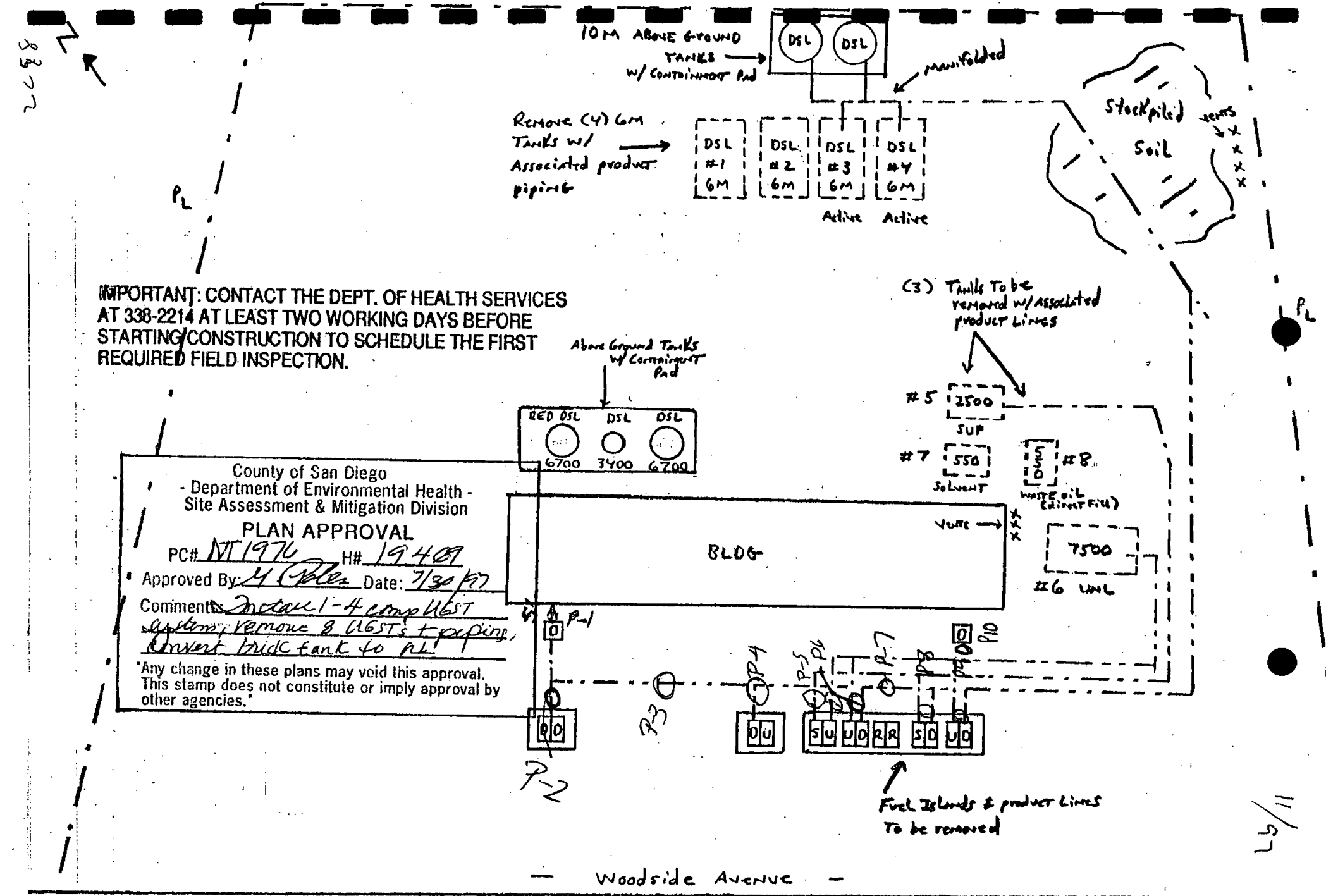
_____

☐ Other, briefly describe _____

_____

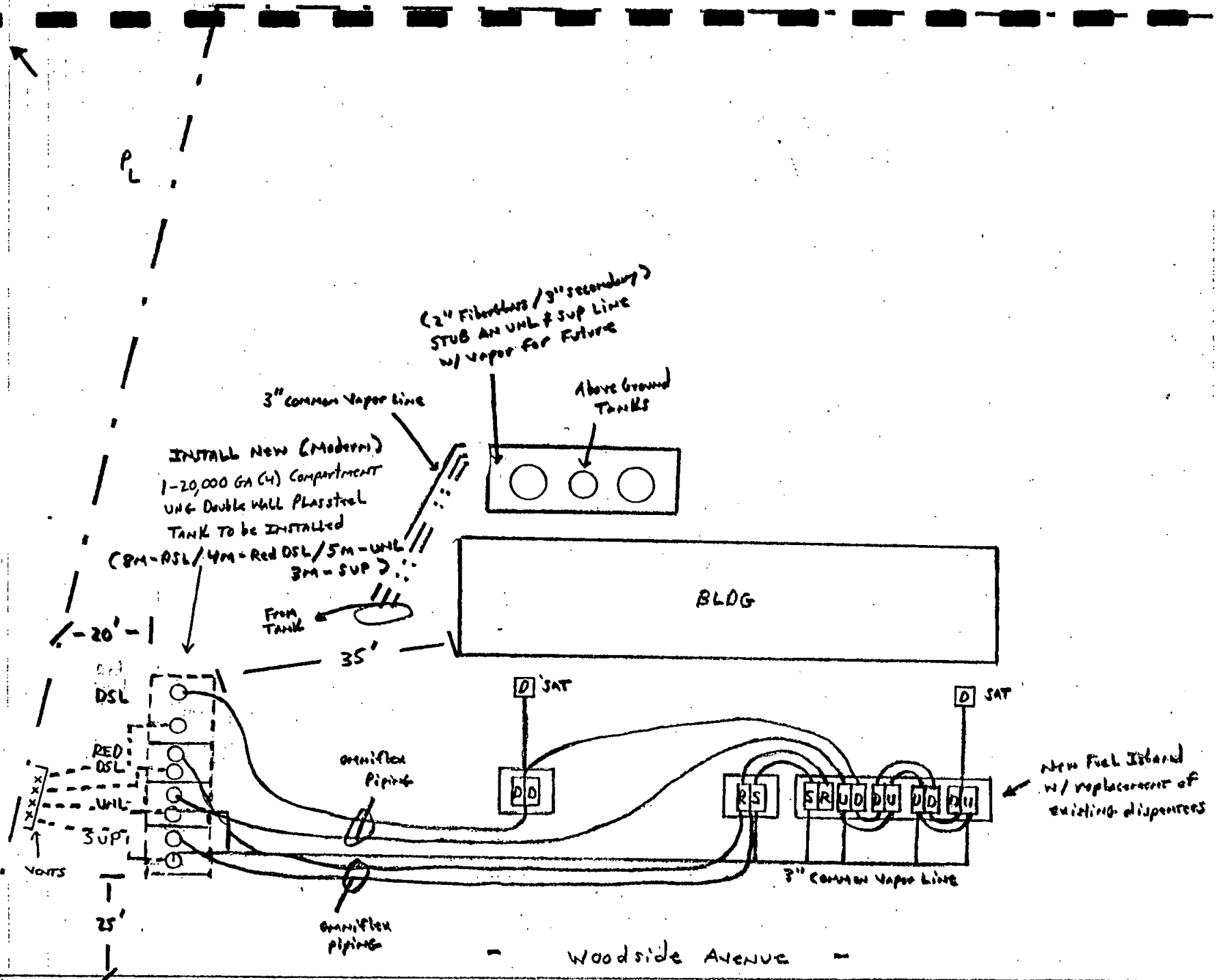
E. PREVIOUS OWNERS AND OPERATORS OF THE TANKS:

Dates	Owner/Operator
_____	_____
_____	_____
_____	_____
_____	_____



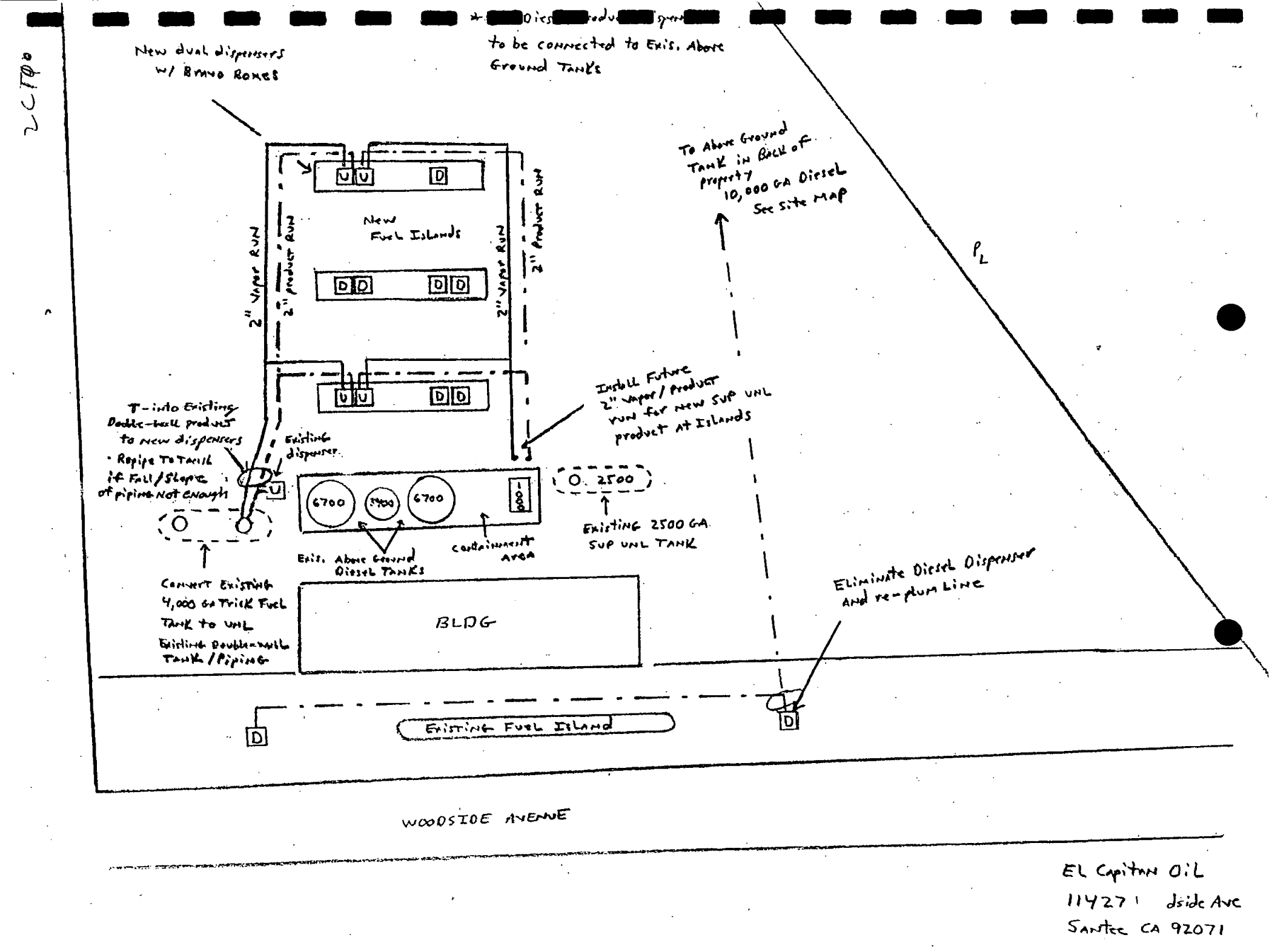
REMOVAL

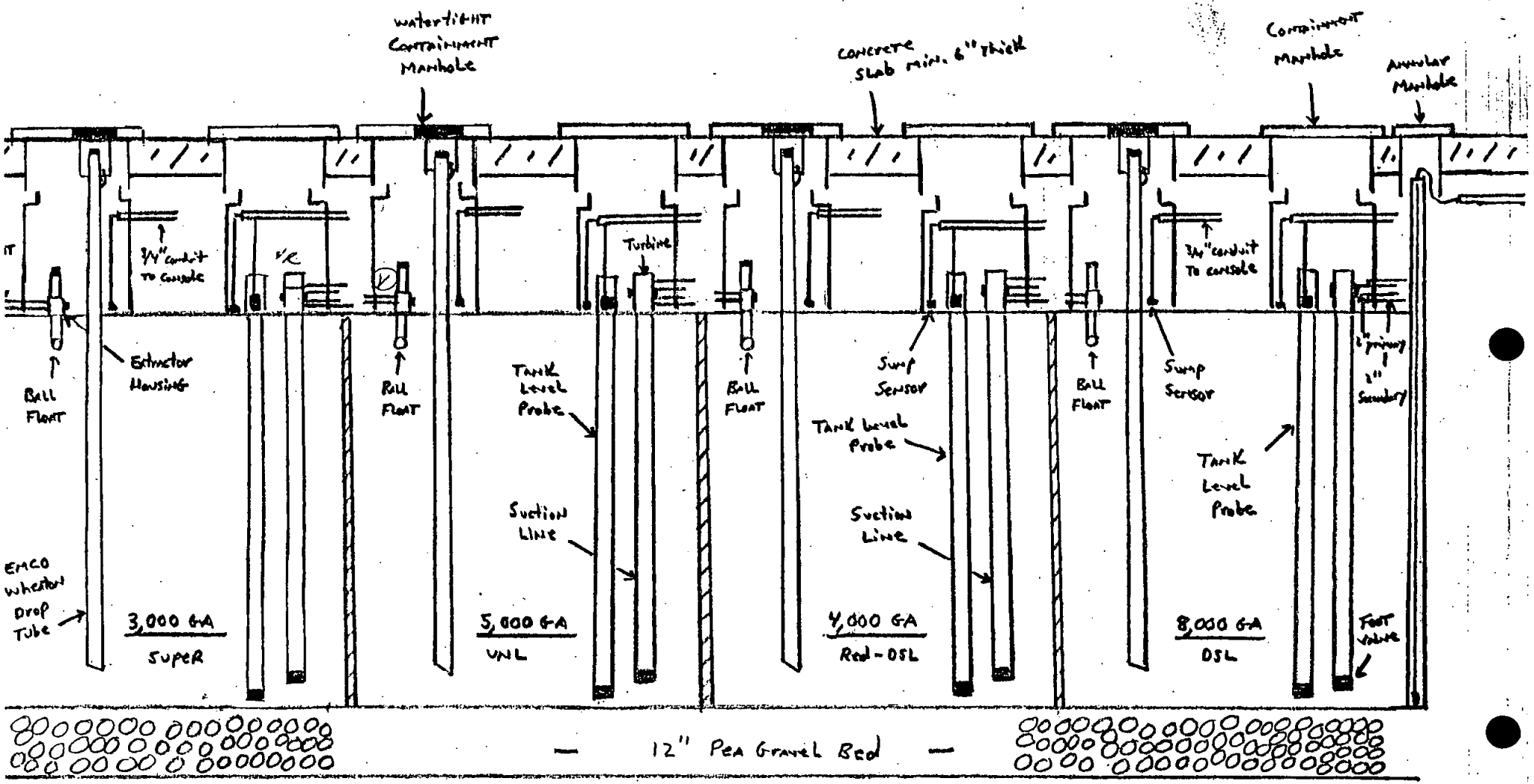
EL Capitan Oil
11427 Woodside Avenue
Santee CA 92071



INSTALLATION

EL Capitan Oil
11427 Woodside Avenue
Santee CA 92071


New dual dispensers w/ Breve Boxes
* Dies product spur to be connected to Exis. Above Ground Tanks
To Above Ground Tank in Back of property 10,000 GA Diesel See Site MAP
New Fuel Islands
2" Vapor RUN
2" Product RUN
2" Product RUN
2" Vapor RUN
P L
Install Future 2" vapor / product run for new SUP UNL product at Islands
T-into Existing Double-wall product to new dispensers
Repipe To Tank if Fall/Slope of piping NOT enough
Existing dispenser
6700
3400
6700
1000
2500
Existing 2500 GA SUP UNL TANK
containment Area
Exis. Above Ground Diesel TANKS
Convert Existing 4,000 GA Thick Fuel Tank to UNL Existing Double-wall Tank / Piping
BLDG
Eliminate Diesel Dispenser and re-plum Line
Existing Fuel Island
WOODSIDE AVENUE
EL Capitan Oil
11427 Woodside Ave
Santee CA 92071



Modern Plasteel Tank

20,000 GA (4) compartment

El Capitan Oil

11427 Woodside Avenue

Santee CA 92071

EVENT 3

Removal of 8 USTs and Installation of 1-4 Compartment UST

ATT #13

MOBILE ONE LABORATORIES INC.

Report Summary

Client: South Bay Environmental Services
Project: El Capitan Oil
Matrix: soil

Method	TPH gasoline	TPH diesel	TRPH	MTBE **	Benzene	Toluene	Ethyl-benzene	Xylenes
Detection Limit (mg/kg)	10	10	10	0.1	0.05	0.05	0.05	0.15
SAMPLE I.D.								
Date Analyzed: 04/29/98								
T1-1-15.5'	nd	nd						
T1-2-15'	400&	2,000#		3.7**	0.12	0.95	11	64
T2-1-14'	nd	11#						
T2-2-16'	nd	nd						
T3-6.4'			4,300					
T4-10'	820&	nd						
T5-E-6.3'			260					
T5-W-6'			5,900					
T6-E-16'	nd	1,100						
T6-W-16.5'	nd	1,800						
T7-E-16'	nd	800						
T7-W-16'	nd	23,000						
T8-E-16'	nd	25						
T8-W-16'	nd	1,900						
T9-E-15.5'	nd	30						
T9-W-17'	nd	4,200						
P1-4.0'	nd	370#						

Method	TPH gasoline	TPH diesel	TPH C_{25}-C_{44}	TRPH	Benzene	Toluene	Ethyl-benzene	Xylenes
Detection Limit (mg/kg)	10	10	10	10	0.05	0.05	0.05	0.15
T3-9.5'	220&	1200#	190	1,900				

nd = not found above the detection limit
& = gasoline range organics (C_6-C_{12}) not identified as gasoline
# = diesel range organics (C_{13}-C_{24}) not identified as diesel
* = sample dilution was required. Detection limits were adjusted accordingly.
** = This compound has been screened by EPA method 8020. Any positive results should be confirmed by a second analysis.
= A second analysis has been performed on this sample by Mass Spectrometry. The results are as indicated.
Analyses performed by: Bret Hutchinson

SB3

148 SO. VINEWOOD STREET • ESCONDIDO, CA 92029 • PHONE (760) 735-3208 • FAX (760) 735-2469

2C19

SITE ASSESSMENT AND MITIGATION DIVISION

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT

page 1 of 2

ESTABLISHMENT NO. H19469 PLAN CHECK NO. AT4031

SITE NAME El Capitan Oil PHONE

SITE ADDRESS 11427 Woodside Ave. CITY Santee, CA ZIP 92071

CONTRACTOR South Bay Environmental Services PHONE (619)238-8338

Number of tanks to be removed 1 2 3 4 5 6 7 8 (9)

Decontamination by South Bay Sandblasting + Tank Cleaning

Manifest No. To be provided via facsimile

Tank rinsate/(amount & destination) 1800 gallons to DeMenno Kerdoon Compton, CA

FIRE AGENCY PRESENT (YES) NO

Dept. City of Santee

Permit No. 98-057

Inspector Phil Davis

Tank ID No.	#2	#1	4	3	5	REMARKS
Capacity (gallon)	7500	7500	2500	550	550	(A) moderate corrosion;
Tank Construction	~~steel~~ diesel	steel	steel	steel →		no holes observed
Materials stored	~~diesel~~ steel	gasoline	gasoline	waste oil		(B) Petroleum hydrocarbon
% L.E.L.	0%	0%		0%	0%	odors & staining
Dry ice/other (amt.) (lbs)	150 lbs.	150 lbs		15	15	(C) some pitting
Tank condition	(A)	(A) (C)		(D)	(A)	(D) Two holes observed; one
Backfill soil type	sand	sand	→	→	→	on bottom (1/4") + one on top (1/4")
Backfill condition	(B)	(B)	→	→	→	Tank had a smaller 1' x 2.5'
Native soil type	sand	sand	←	←	←	tank on bottom near end.
Native condition	(B) (F)	(B) (F)	(F)	(B)	(B)	(E) Product piping appears
Excavation odors? pet. HC	slight	slight	→	→	→	to have been removed
Stockpile odors? pet. HC	slight	slight	→	→	→	previously (NT1976 10/97)
Water present?	no	no	→	→	→	(F) some areas of native soil
Ponded product?	no	no	→	→	→	revealed no staining w/ slight odor
Piping removed?	yes (E)	yes (E)	yes	yes	yes	

REINSPECTION REQUIRED YES (NO) If yes, explain

NOTICE: You are hereby notified that on 4/29/98, a Hazardous Materials Specialist conducted an inspection for the closure of nine (9) hazardous substance underground storage tank(s). A summary of the conditions follows:
(see attached closure report for add'l 4 USTs.

☐ An **unauthorized release** of a hazardous substance has been observed by the Hazardous Materials Specialist. You are hereby required to initiate **Corrective Action** measures (see Page 4 for details).

☒ A determination of this site's status is pending the Site Assessment and Mitigation (SAM) Division's receipt and review of analytical results for the samples taken from the tank and/or piping closure site. A laboratory report must be submitted to SAM within 30 days. Please request that the laboratory send a copy of the analytical report directly to Pamela Villa Clay at the address provided below.

SAM Division has completed its review of the analytical results for samples collected at the tank closure site and has determined the following:

☐ TANK CLOSURE COMPLETE - NO FURTHER ACTION REQUIRED

☒ ~~INITIATE~~ CONTINUE CORRECTIVE ACTION MEASURES (See enclosed information)

Approved by: Pamela Villa Clay Date Reviewed: 5/1/98 Supervison (initial): MW

RECEIVED BY Steve Haggerty

PRINTED NAME Steve Haggerty

PHONE NUMBER 619 238 8338

Pamela Villa Clay
Hazardous Materials Specialist
SAM P.O. Box 129261
San Diego, CA 92112-9261 (619) 338-2222

DISTRIBUTION: WHITE-RETURN TO SAM
YELLOW-BUSINESS RETAINS

2 C20

SITE ASSESSMENT AND MITIGATION DIVISION

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT

page 2 of 2

ESTABLISHMENT NO. H19469 PLAN CHECK NO. AT4031

SITE NAME El Capitan Oil PHONE

SITE ADDRESS 11427 Woodside Ave. CITY Santee, CA ZIP 92071

CONTRACTOR South Bay Environmental Services PHONE (619) 238-8338

Number of tanks to be removed 1 2 3 4 5 6 7 8 (9)

Decontamination by South Bay Sandblasting + Tank Cleaning

Manifest No. To be provided

Tank rinsate/(amount & destination) 1800 gallons - D/K

FIRE AGENCY PRESENT (YES) NO

Dept. City of Santee

Permit No. 98-057

Inspector P. Davis

Tank ID No.	6	7	8	9	REMARKS
Capacity	6000	6000	6000	6000	see comments
Tank Construction	steel	steel	steel	steel	(A) (B) (C) (D) (E) (F)
Materials stored	diesel	diesel	diesel	diesel/kerosene	described on
% L.E.L.	0%	0%	0%	0%	page 1 of 2.
Dry ice/other (amt.)	90 lbs	→	→	→	
Tank condition	(A)	(A)	(A)	(A)	(G) Strong petroleum
Backfill soil type	sand	→	→	→	HC odors.
Backfill condition	(B) (G)	→	→	→	
Native soil type	sand w/ some red clay	→	→	→	Note: very sandy soil
Native condition	(B) (F)	→	→	→	and caving in and
Excavation odors?	slight	→	→	→	around perimeter of
Stockpile odors?	slight	→	→	→	excavation. Excavation
Water present?	no	→	→	→	to be backfilled to
Ponded product?	no	→	→	→	approx. 2 ft. bgs and/or
Piping removed?	yes	yes	yes	yes	wrapped w/ K-rail.

REINSPECTION REQUIRED YES (NO) If yes, explain

NOTICE: You are hereby notified that on 4/29/98, a Hazardous Materials Specialist conducted an inspection for the closure of nine (9) hazardous substance underground storage tank(s). A summary of the conditions follows:
(see page 1 of 2 for previous 5 USTs)

☐ An **unauthorized release** of a hazardous substance has been observed by the Hazardous Materials Specialist. You are hereby required to initiate **Corrective Action** measures (see Page 4 for details).

☒ A determination of this site's status is pending the Site Assessment and Mitigation (SAM) Division's receipt and review of analytical results for the samples taken from the tank and/or piping closure site. A laboratory report must be submitted to SAM within **30** days. Please request that the laboratory send a copy of the analytical report directly to Pamela Villa Clay at the address provided below.

SAM Division has completed its review of the analytical results for samples collected at the tank closure site and has determined the following:

☐ TANK CLOSURE COMPLETE - NO FURTHER ACTION REQUIRED

☒ ~~INITIATE~~ CONTINUE CORRECTIVE ACTION MEASURES (See enclosed information)

Approved by: Pam Villa Clay REA Date Reviewed: 5/11/98 Supervisor (initial): MW

RECEIVED BY Steve Haggerty

PRINTED NAME Steve Haggerty

PHONE NUMBER 238 8330

Pamela Villa Clay
Hazardous Materials Specialist
SAM P.O. Box 129261
San Diego, CA 92112-9261 (619) 338-2222

DISTRIBUTION: WHITE-RETURN TO SAM
YELLOW-BUSINESS RETAINS

2C21

FIELD NOTES

Date: 4/29/98

H 19469

Tank(s) last used: 10/97

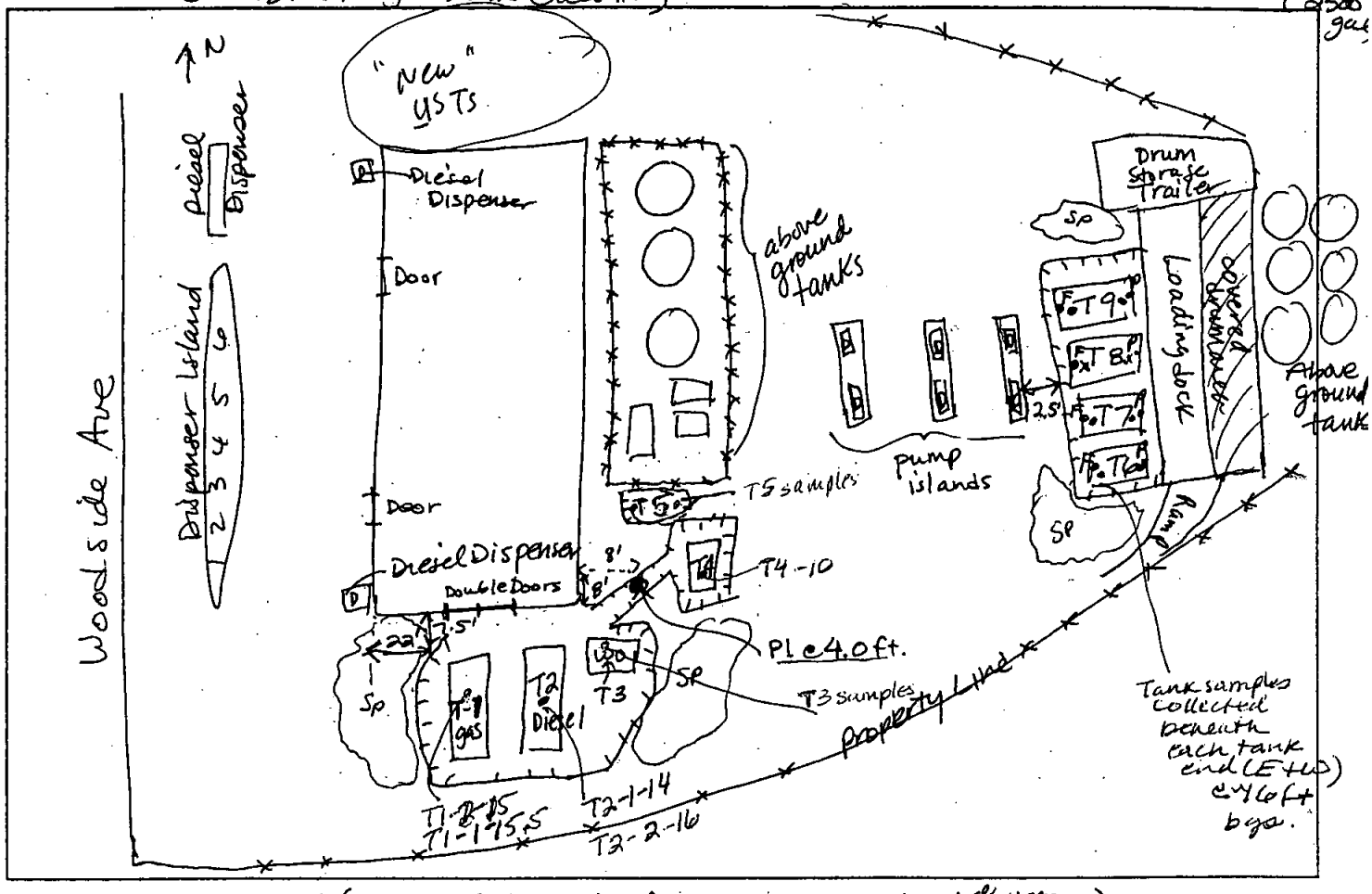
ATNT 4031

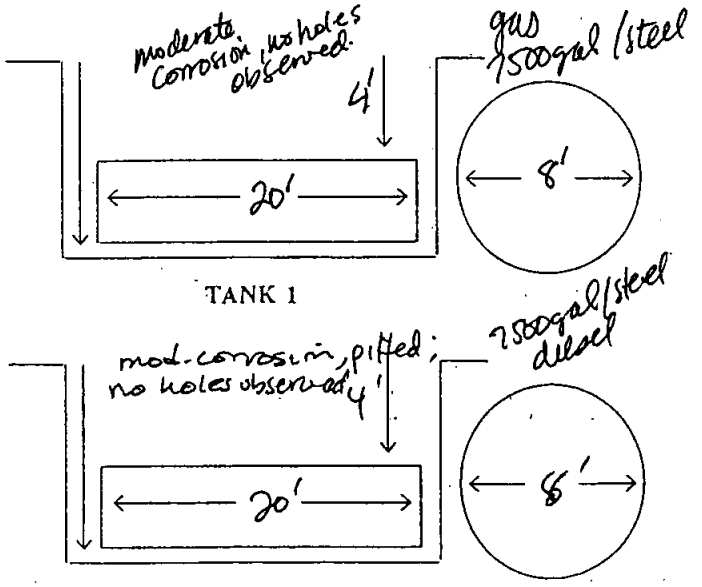
Approx. age of tank(s): 4 diesel USTs installed ~1970; others unknown

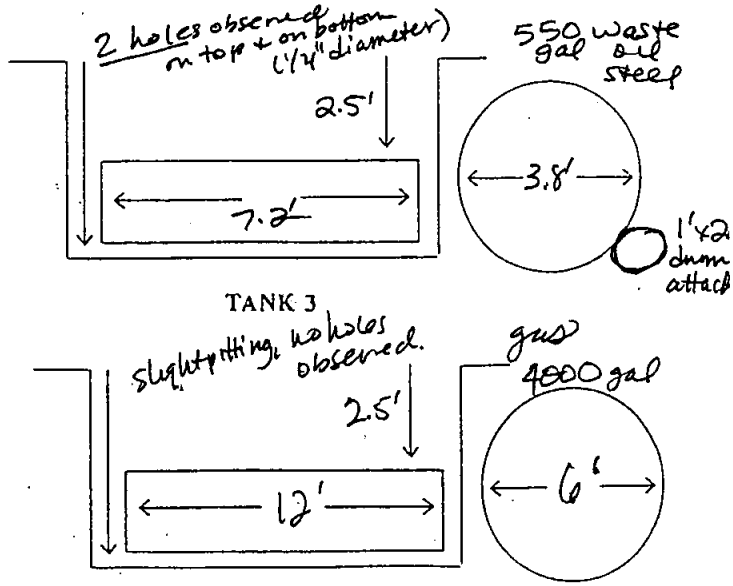
Tank(s) destination: Pacific Coast Recycling, SD-CA

Manifest #: _____ Gallons: 18000 to: DeMenno Kerdoon

Decontamination by: South Bay Sandblasting + Tank Cleaning lbs. dry ice: (1) 150 (2) 150 (3) 10-15 (4) T3+T5 4-6K (T6→T4 T4: 25((2500 gal







2C22

FIELD NOTES

Date: 4-29-98

H 19469

Tank(s) last used: 10/97 (NT permit approved 7/97)

AT/NT 4031

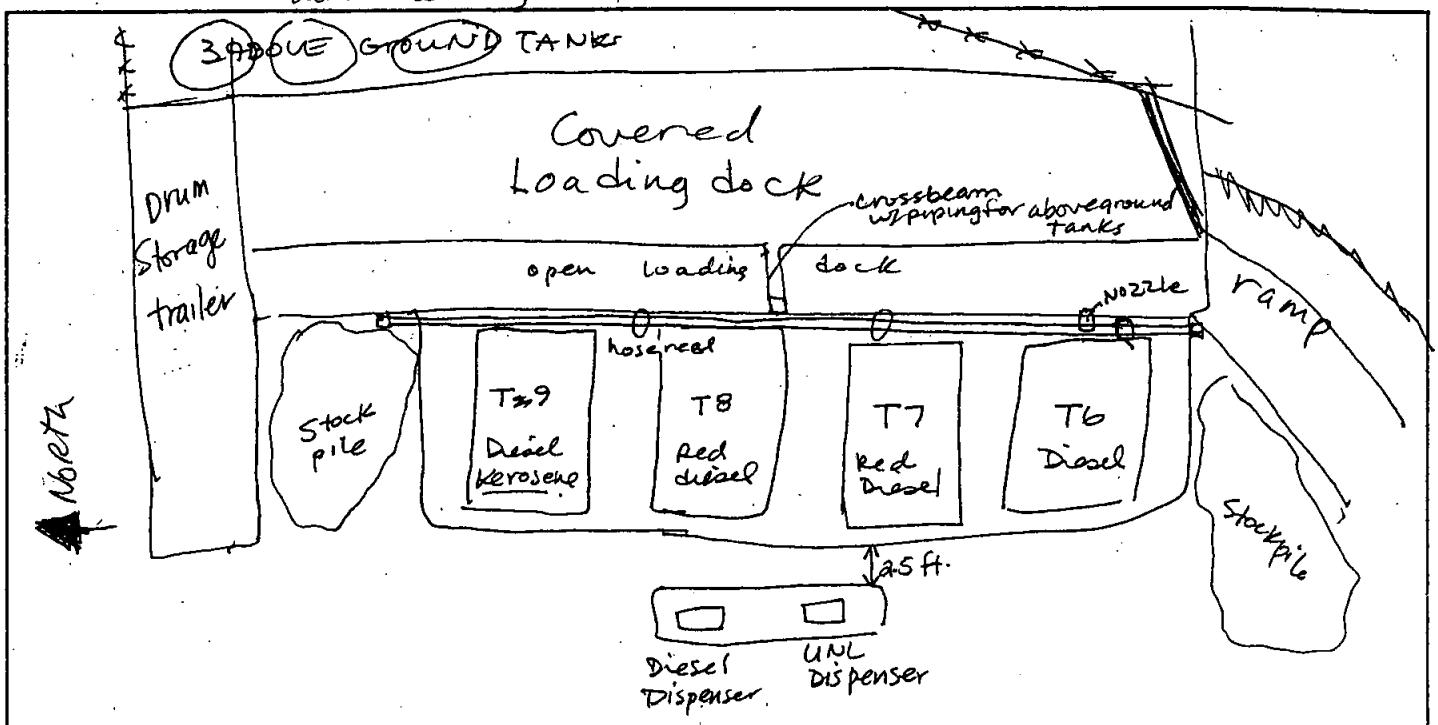
Approx. age of tank(s): (installed 1970s)

NT 1976 new piping/ new tanks installed.

Tank(s) destination: Pacific Coast Recycling – Commercial & 30th – San Diego

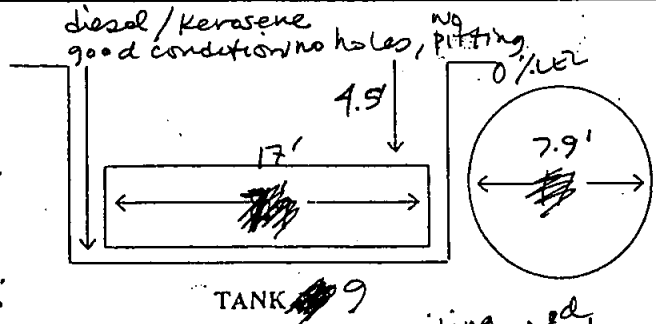
Manifest #: _____ Gallons: _____ to: _____

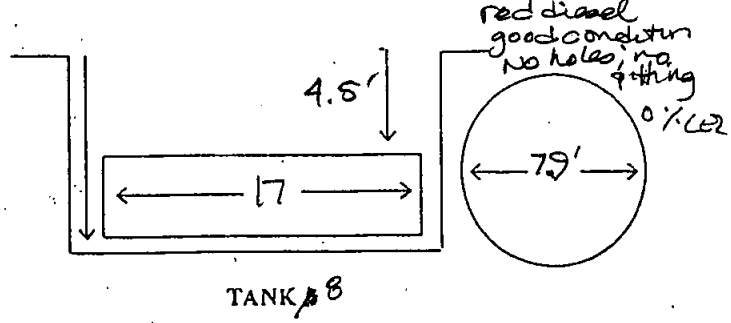
Decontamination by: South Bay Sandblasting & Tank Cleaning lbs. dry ice: (6) 90 (7) 90 (8) 90 (9) 90

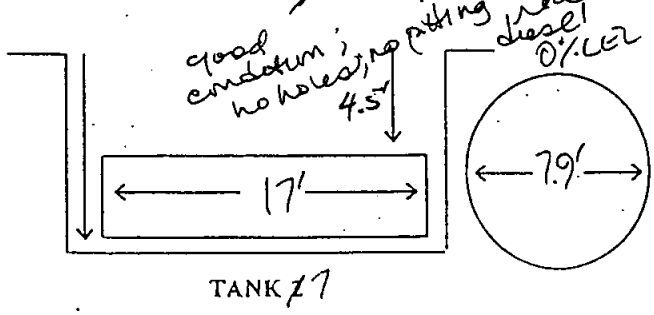


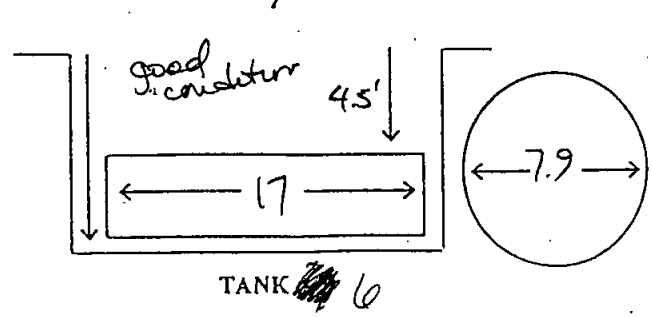
- piping/turbines directly above USTs and over to front (west side) of loading dock.
- Moderate odors from excavation; overspill or piping UR.

V. Sandy soil









2C23

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
SITE ASSESSMENT AND MITIGATION DIVISION

PLAN CHECK # AT4031

EST # H19469

DATE: 3/27/98

PLAN CHECK CORRECTIONS AND COMMENTS FOR UNDERGROUND STORAGE TANK FACILITY

SITE NAME: El Capitan Oil/south Bay Environmental

SITE ADDRESS: 11427 Woodside Ave., Santee, CA. 92071

DESCRIPTION OF PROPOSED WORK: **Remove eight underground storage tank and all associated product piping**

For tank systems that are to be removed, the excavation shall be exposed prior to the scheduled inspection and sampling points identified by the Site Assessment and Mitigation Division (SAM) inspector. Sampling is required for both tank(s) and piping. The tank(s) and piping must remain in the excavation until the SAM inspector approves the removal.

Please Note:

1) All product piping and underground storage tanks must be removed at the same time. Failure to do so will result in a re-inspection and $300.00 re-inspection fee.

This office must be given at least 48 hours notice for all required Underground Storage Tank Activity. Please contact the Site Assessment and Mitigation Division, Plan Check desk at (619) 338-2214 to schedule or cancel inspections.

Plans Reviewed and Approved By: Mark McPherson Date: 3-27-98

MAR 30 1998

Notified _____

2 C 24

ORIGINAL

OFFICE USE ONLY
EST#: H194609
PLAN CK#: AT4031
DATE RECEIVED: 3-23-98
FEE PAID: 725 -
PLAN APPROVAL: 3-27-98 MS
HYDRO UNIT: 7.1
yes

PERMIT APPLICATION
PART I
GENERAL PROJECT INFORMATION

MAR 23 1998

UNDERGROUND HAZARDOUS MATERIALS STORAGE TANK FACILITY

ORIG

A. SITE NAME: EL CAPITAN OIL CO.
SITE ADDRESS: 11427 WOODSIDE AVE City SANTEE Zip 92071

B. PROPERTY OWNER:
Assessors Parcel No. 382-320-06-00
Company WIGINGTON Petroleum Contact JIM WIGINGTON
Mailing Address P.O. Box 2504 City SPRING VALLEY State CA Zip 91979
Phone (619) 448-5891
24 Hr. Emergency Contact JIM WIGINGTON Phone (619) 258 7113

C. TANK OPERATOR:
Company EL CAPITAN OIL Contact JIM WIGINGTON
Mailing Address 11427 WOODSIDE AVE City SANTEE Zip 92071
Phone (619) 448-5891
24 Hr. Emergency Contact JIM WIGINGTON Phone (619) 258-7113

D. CONTRACTOR PERFORMING WORK:
Primary Contractor South Bay Environmental Srvs. Contact Steve Haggerty
Mailing Address 3763 DALBERGIA ST. City San Diego Zip 92113
Phone (619) 238 8338
State Contractor License 727601
Hazardous Substances Certificate AT111
Worker's Compensation Insurance Company EAGLE INSURANCE

E. APPLICATION SUBMITTAL, PLAN APPROVAL, PERMIT ISSUANCE, AND REQUIRED INSPECTIONS

Submit one (1) original and two (2) copies of this application package, including plan drawings with the required fee to the Department of Environmental Health, Site Assessment and Mitigation Division (SAM), 1255 Imperial Avenue, San Diego, CA 92101; or mail to P.O. Box 129261, San Diego, CA 92112-9261. **Checks should be made payable to the County of San Diego.**

A permit will be issued by SAM upon review and approval of the application and plans. The required fees must be submitted with the application package. Information in addition to that presented in the application package may be needed in order to obtain final approval. No work is to begin on the proposed project until a permit has been issued. The required inspections cannot be scheduled until a permit is issued.

Once the permit has been issued, it is the responsibility of the permittee to notify SAM at least two (2) working days in advance to schedule each required inspection.

Construction stages at which inspections are required are indicated in each subpart of this application form (i.e., Part II, III, IV, & V).

2,25

PERMIT APPLICATION
PART III
APPLICATION FOR PERMIT TO CLOSE UNDERGROUND STORAGE TANK SYSTEM

TOTAL NUMBER OF TANK SYSTEMS TO BE CLOSED 8
NOTE: UST SYSTEMS INCLUDE TANK AND ALL ASSOCIATED PIPING.

DESCRIPTION OF TANKS TO BE CLOSED:

TANK NO.	CAPACITY	DATE INSTALLED	TANK COMPOSITION	TANK PRESENTLY IN USE?	MATERIALS STORED IN TANK
1	7,500	UNKNOWN	Steel	NO	UNleaded GASOLINE
2	2,500	UNKNOWN	Steel	NO	Diesel
3	550	UNKNOWN	Steel	YES	WASTE OIL
4	550	UNKNOWN	Steel	YES	WASTE OIL
5	6,000	UNKNOWN	Steel	NO	Diesel
6	6,000	UNKNOWN	Steel	NO	Diesel
7	6,000	UNKNOWN	Steel	NO	Diesel
8	6,000	UNKNOWN	Steel	NO	Diesel

HAS THE TANK SYSTEM EVER FAILED OR LEAKED? YES ☒ NO ☐ UNKNOWN ☒

REASON FOR TANKS TO BE CLOSED: Release 001 TYPE 01

☒ Meet current state/federal requirements DWF STATUS 05

☐ Replacement of existing tanks

☐ Tank system failure, briefly describe _____

_____

☐ Other, briefly describe _____

_____

PREVIOUS OWNERS AND OPERATORS OF THE TANKS:

Dates	Owner/Operator
_____	SAME
_____	_____
_____	_____
_____	_____

2 C 26

EST. H# 19469

PLAN CHECK # AT 4031

WORKPLAN FOR UNDERGROUND STORAGE TANK CLOSURE

1. Site Name El Capitan Oil

2. Site Address 11427 Woodside Ave

Santee CA. 92071

3. Describe the existing land use in the surrounding area. (residential, commercial, schools) Describe the locations of nearest receptors and the prevailing wind.

Commercial land use

wind out of the west.

4. Explain how the excavation will be secured. Describe fencing/site security and other methods that insure public safety.

Temporary fencing

5. If soil is to be stockpiled, describe the location on the Plan Check map. Describe method of soil containment (berming/covers, run-off control).

Soil Stockpiled on visqueen and covered with visqueen

6. Do you plan to conduct site assessment or remedial work beyond what is necessary to remove the underground storage tank(s) and perform the mandatory soil sampling required by the Environmental Health Services?

☐ Yes ☒ No

If Yes, a Workplan for Post-Tank Removal Investigation must be completed under the direction of a registered professional.

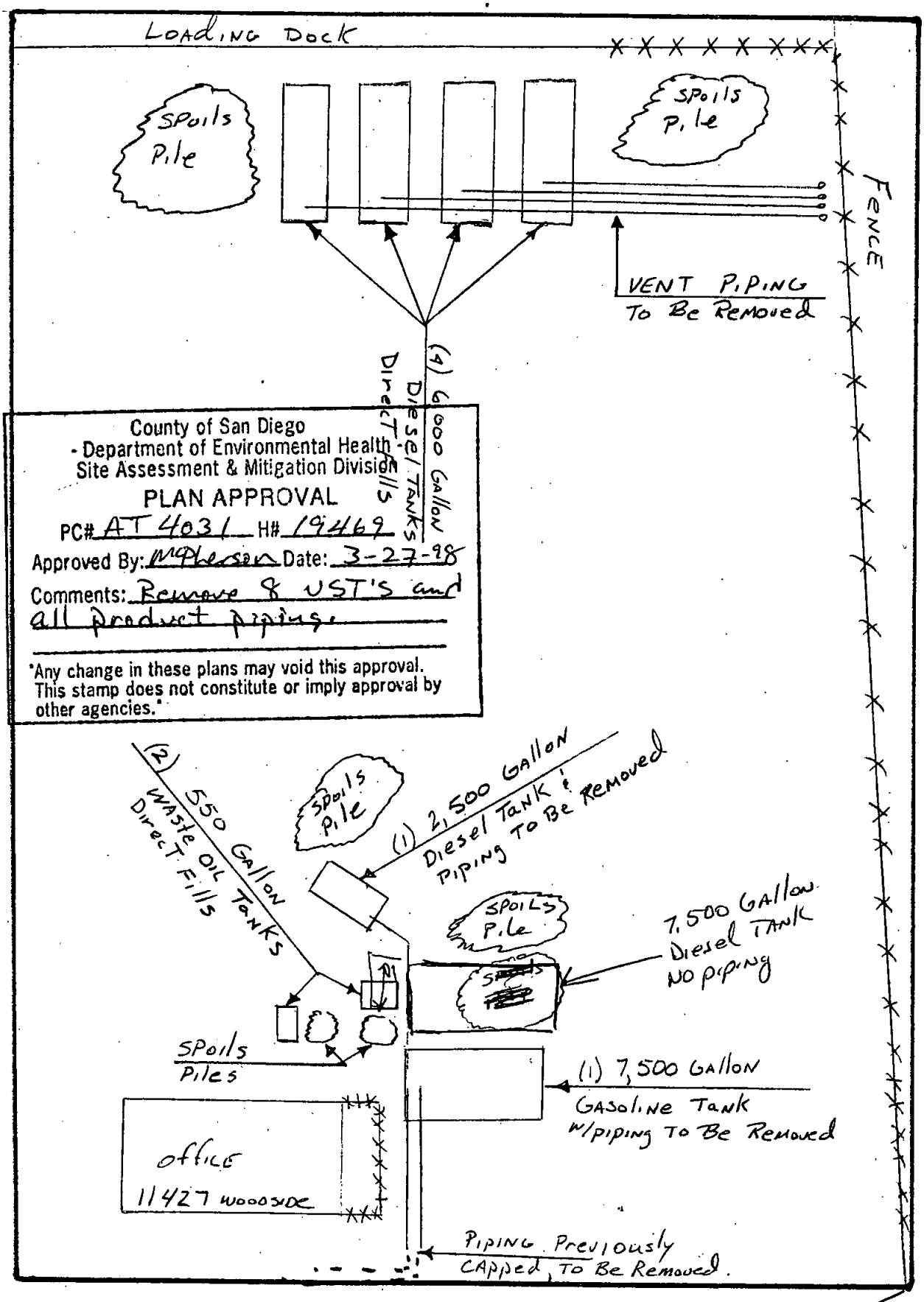
Signature Steve R Haggerty

Title Construction Mgr.

Telephone 619 238 8338 Date 3/17/98

2 C 27

Site Plan



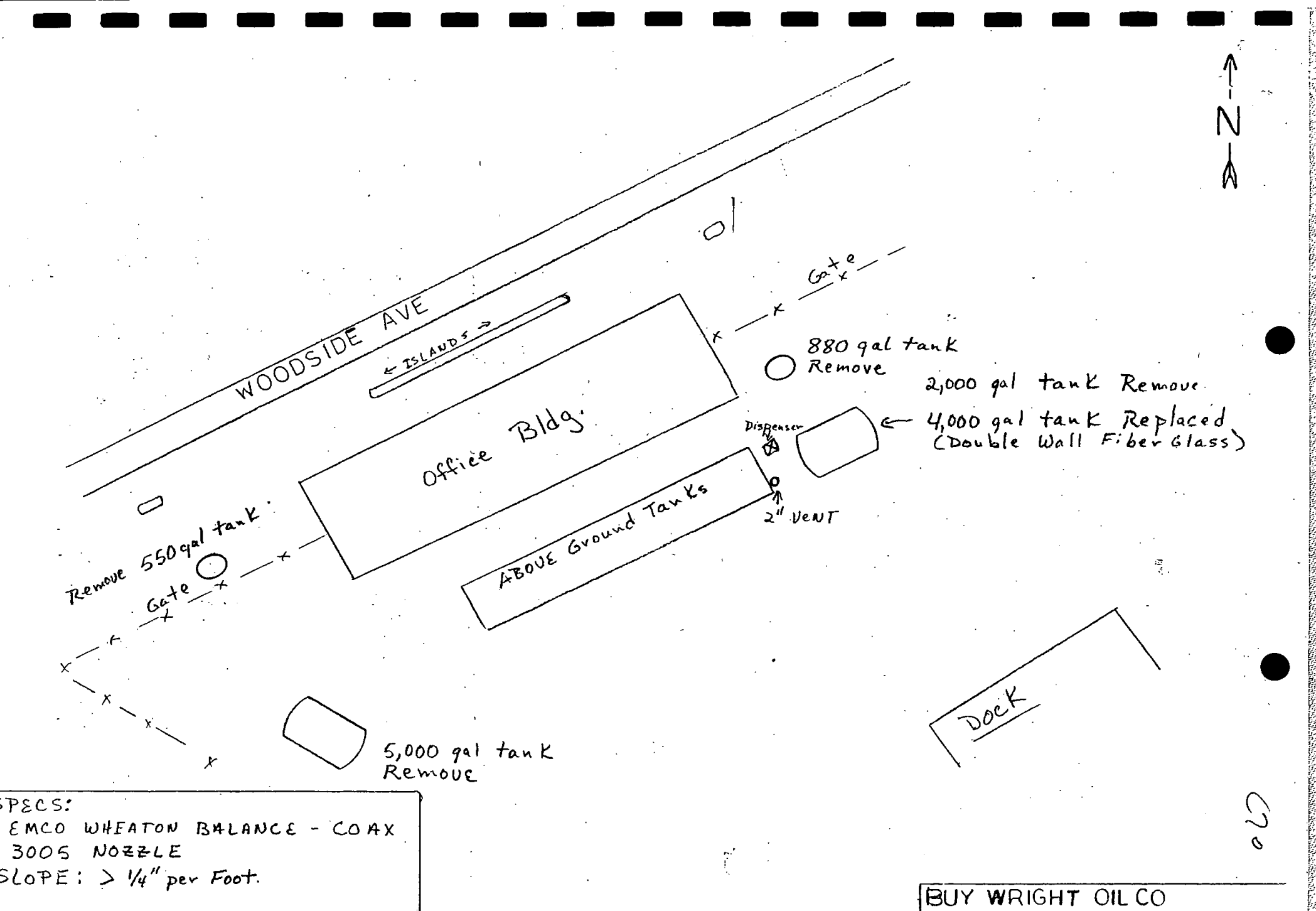
WOODSIDE AVE

See other site Maps for

N

P

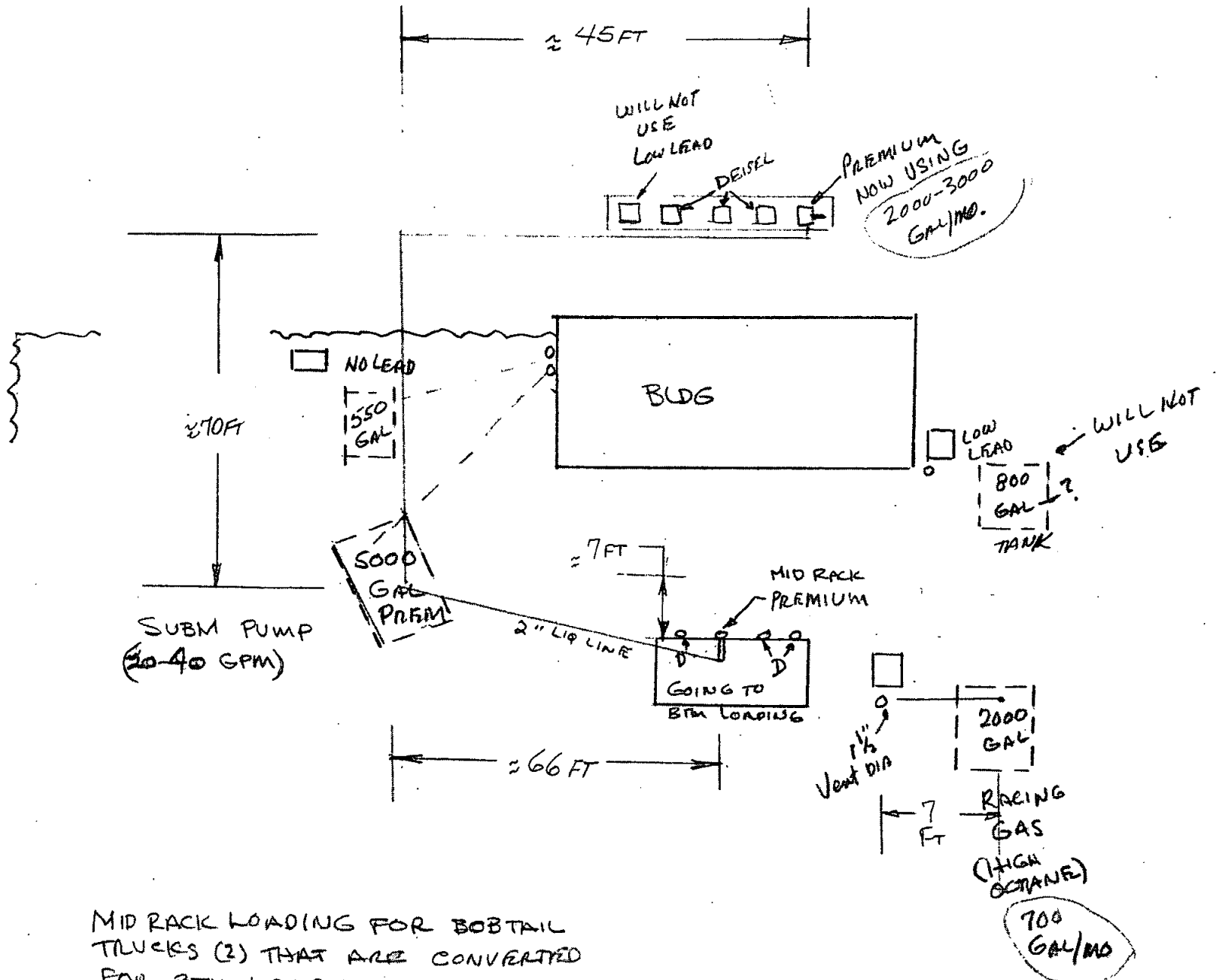
Tank and Product Piping Records and Diagrams



SPECS:
EMCO WHEATON BALANCE - COAX
3005 NOZZLE
SLOPE: > 1/4" per Foot.

BUY WRIGHT OIL CO
11427 WOODSIDE AVE
SANTEE, CA

WOODSIDE



MID RACK LOADING FOR BOBTAIL TRUCKS (2) THAT ARE CONVERTED FOR BTM LOADING

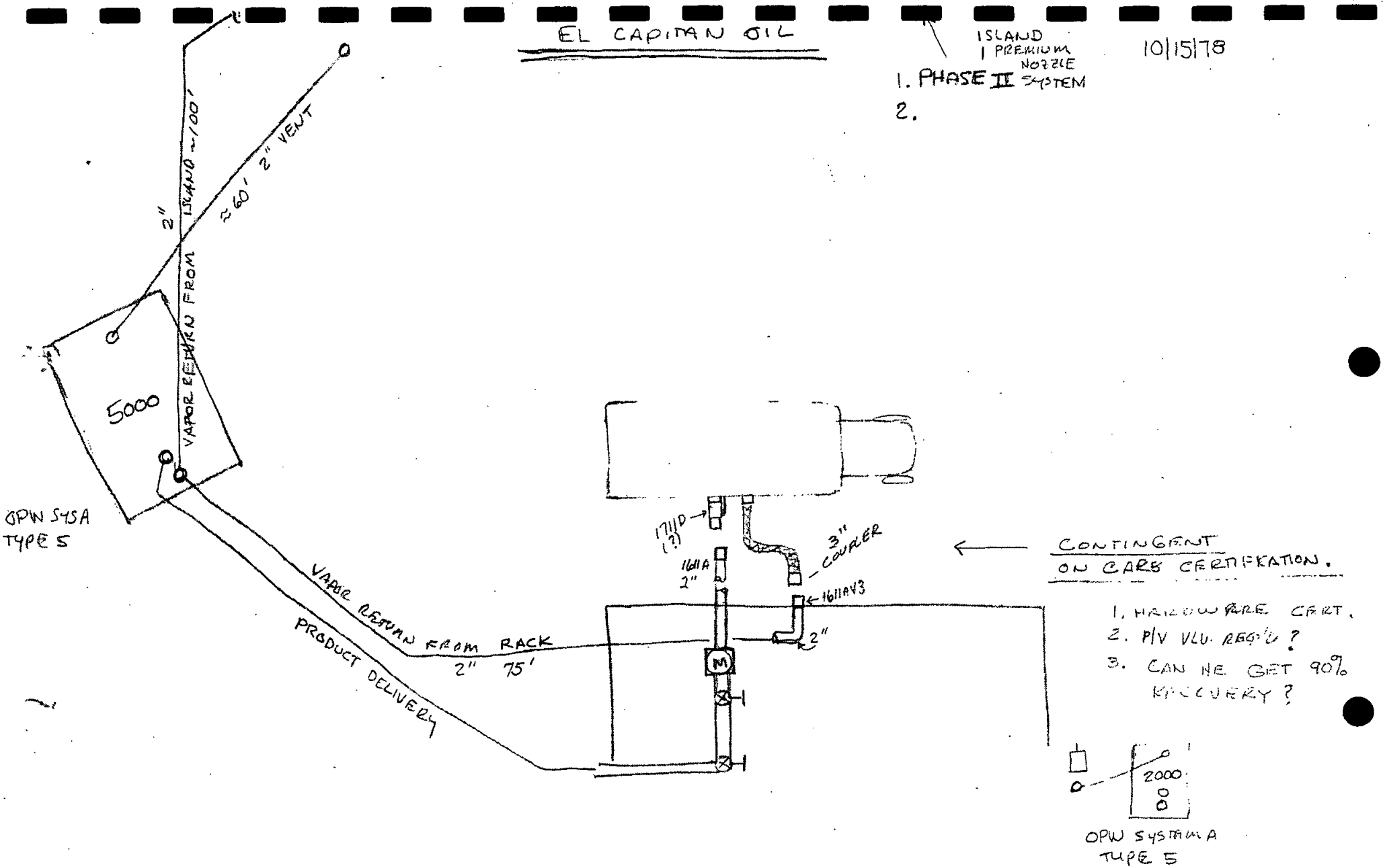
120

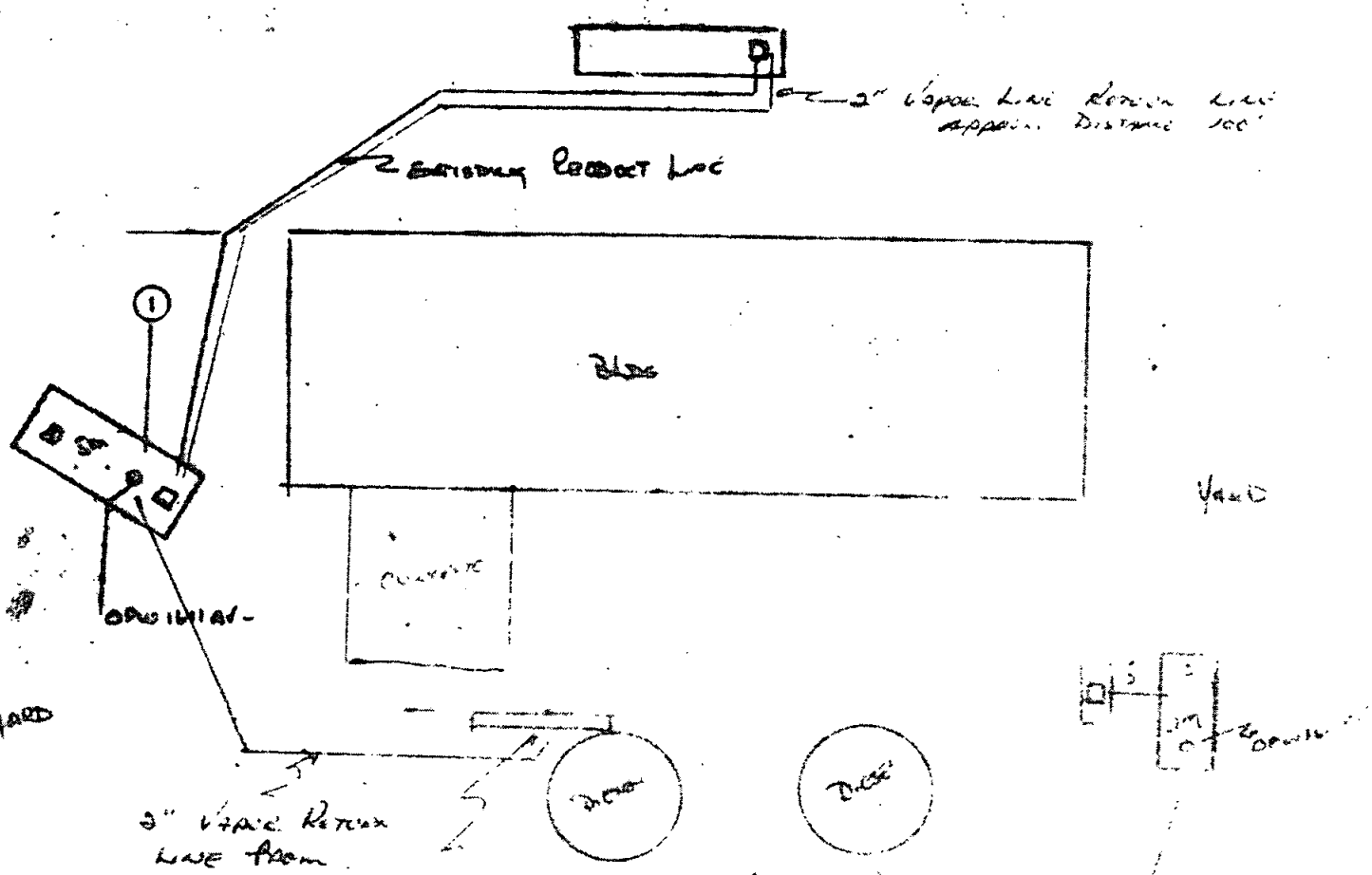
EL CAPITAN OIL

ISLAND
1 PREMIUM
NOZZLE

10/15/78

1. PHASE II SYSTEM
2.




2" Vapor Line Return Line
Approx. Distance 100'
Existing Product Line
1
Bldg
Yard
Dispenser
Dispenser
Yard
2" Vapor Return Line from Truck to Underground Tank (Capacity 7)
Trucking, Loading (Bottom) See Attached Drawing
Yard
2

A13

COUNTY OF SAN DIEGO

AIR POLLUTION CONTROL DISTRICT

EQUIPMENT LIST

DATE: 6-12-80

PAGE 1 OF 1

DBA: El Capitan Oil Company

Ownership: Bob Sinclair & Rod Means

Sector & ID No. J

Map Coord: X

Map Coord: Y

Equipment Address: 11427 Woodside Ave., Lakeside ZIP CODE: 92040

Mailing Address: P.O. Box 456, Lakeside ZIP CODE: 92040

Date at this location: Since 1970

☒ Corp. ☒ Partnership ☐ Individual ☐ Govt. Agency ☐ Public Dist.

Contact: Bob Sinclair Title: Pres. Phone: 4485891

Nature of Business: Small Bulk Plant

Operating Hours: 0800 - 1800

Days Per Week: 5

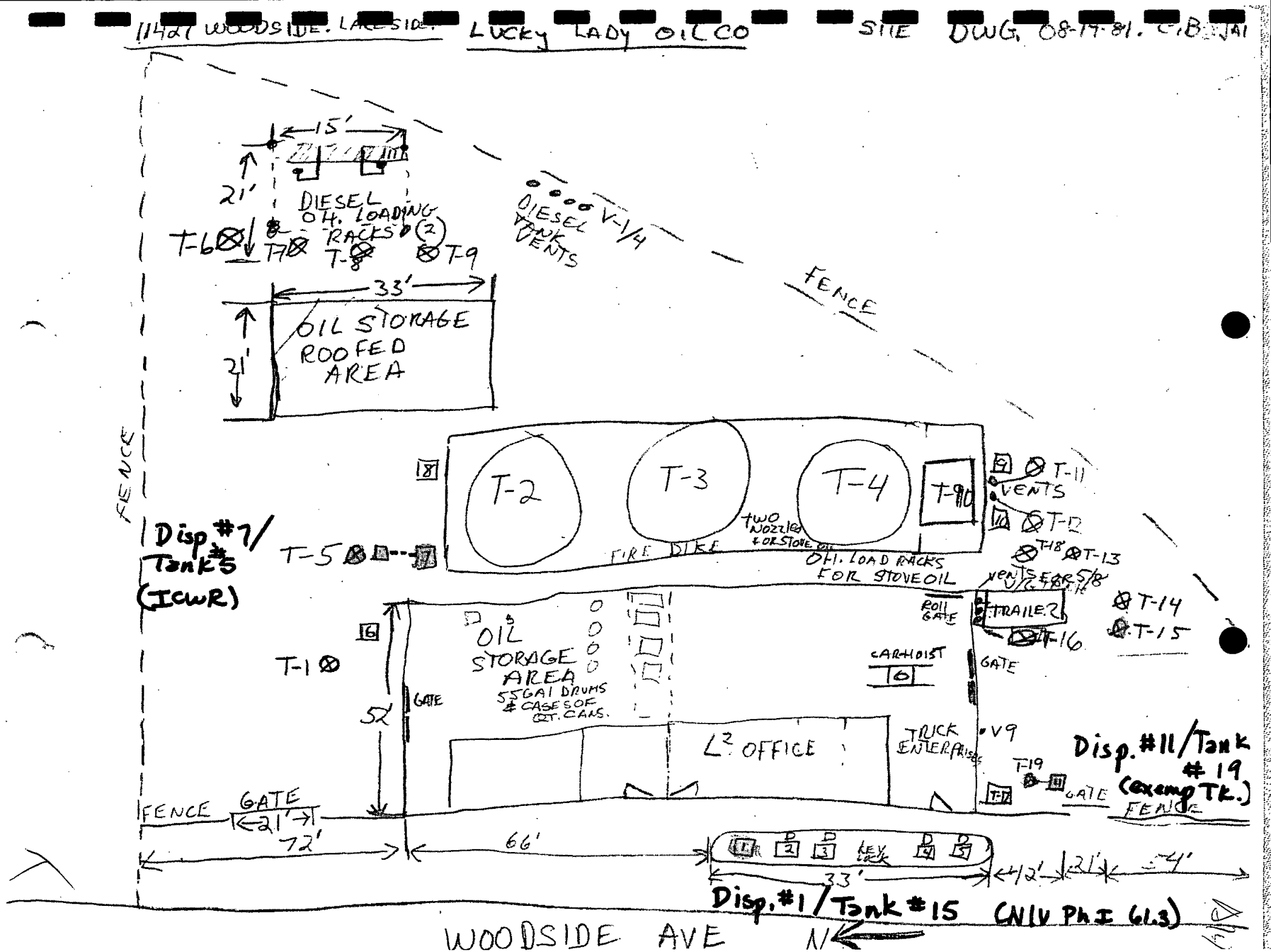
Item	No.	Equipment Description: name, make, model, serial number, size, type, company number, pollution controls, etc.	Status
1	1	7,500 gal. u/g storage tank for Premium gasoline 1 pump 1 nozzle; Emco-Wheaton Phase II; 40,000 gal/mo max	
2	1	550 gal. u/g tank for Unleaded, 1 nozzle 300 gal/mo max	
3	1	2,000 gal. u/g storage tank for racing fuel, 1 pump 1 nozzle, Emco-Wheaton Phase II; 500 gal/mo max.	
4	4	6,000 gal. u/g storage tank for Diesel fuel	11-i-
5	1	2,500 gal. u/g storage tank for Diesel fuel	11-i-
6	1	2,500 gal. u/g storage tank for used oil	11-i-
7	1	1,000 gal. u/g storage tank for Kerosene	11-i-

Type Inspection: Annual

Inspected By:

APCD 33 (REV 04/78)

11427 WOODSIDE. LAKESIDE. LUCKY LADY OIL CO SITE DWG. 08-19-81. C.B. JAI



LEGEND

DISPENSERS

- ⊠-1 = DISPENSER 1 REGULAR GASOLINE
- □-2 THRU 5- DISPENSER 2-5 ! DIESEL FUEL
- □-6 KEROSENE
- ▣-7 DISP#7 TRICK GAS
- □-8 DISP#8 DISCONNECTED (NOT ATTACHED TO ANYTHING)
- □-9 DISP#9 WEEDOIL
- □-10 DISP#10 SOLUENT
- ▣-11 DISP#11 UNLEADED SUPREME.

TANKS

- ⊗ T-1 U/G KEROSENE; 550 GALLONS; SERVES DISPENSER #6
- ○ T-2 A/G DIESEL#2; 6700 GALLONS SERVES DISP-2-5
- ○ T-3 A/G STOVE OIL; 3400 GALLONS HAVE OVERHEAD LOADING RACK + 1 NOZZLE
- ○ T-4 A/G STOVE OIL; 6700 GALLONS ↓ ↓
- ⊗ T-5 U/G TRICK GAS; 2000 GAL; SERVES DISP # 7
- ⊗ T-6 U/G DIESEL#2; 6,000 GAL; SERVE OH. LOADING RACKS
- ⊗ T-7 U/G ↙ ; ↙ ; MANIFOLDED 2 & 2
- ⊗ T-8 U/G ↙ ; ↙ ; ↙ ↙
- ⊗ T-9 U/G ↙ ; ↙ ; ↙ ↙
- ⊠ T-10 A/G CLEANING SOLVENT; 500 GAL; HAS OWN HOSE & NOZZLE
- ⊗ T-11 U/G WEED OIL; [illegible]; Serves DISP #9
- ⊗ T-12 U/G SOLVENT; [illegible]; serves DISP #10

VENTS

- V 1/4 Vents for Diesel OH Rack Tanks. 2" I.D X ≥ 12' OK
- V 5/8 VENTS for Tanks 13/14/15
- V 1/2 Vent for tank #12? 1½" PIPE X 5' NO GOOD

TANKS CTD

- ⊗ T-13 U/G 7500 GAL ; DIESEL MANIFOLDED W TANK #2
- ⊗ T-14 U/G 5000 GAL ; NOT USED & LEAKS.
- ⊗ T-15 U/G 7500 GAL ; REGULAR GASOLINE SERVES DISP #1
  NO DRY BREAK

? ⊗ T-16 U/G UNKNOWN USE, NOT BEING USED, STEPS TO TRAILER COVER PIT LID.

? T-17 A/G 1500 GAL ; KEROSENE, SOLVENT & OIL 3 COMPART. 500 GAL EA

? ⊗ T-18 U/G 500 GAL WASTE OIL TANK

- ⊗ T-19 U/G 550 GAL ; UNLEADED GASOLINE, SERVES DISP #11

Wigington Petroleum
11427 Woodside Ave
Santee Ca 92071
619-448-5891

A12

Woodside Ave

N

REPLACING SINGLE DISPENSER WITH DUAL

Regular Single Dispenser
WAYNE #733-1-G

A-3003 Emco Wheaton Nozzle
over-head retractor

30'

60'

OFFICE & WAREHOUSE

Submergible Pump
WAYNE #510-F
1/3 HP

Product Line

7500 Gallon
Regular-Lead

Fill

Vapor

Vent

Volume: 10500 Per Mo

VAPOR BALANCED
SYSTEMS
GRAVITY FED

3'6"

Vapor Line

No-Lead Regular

Suction Line

Fill

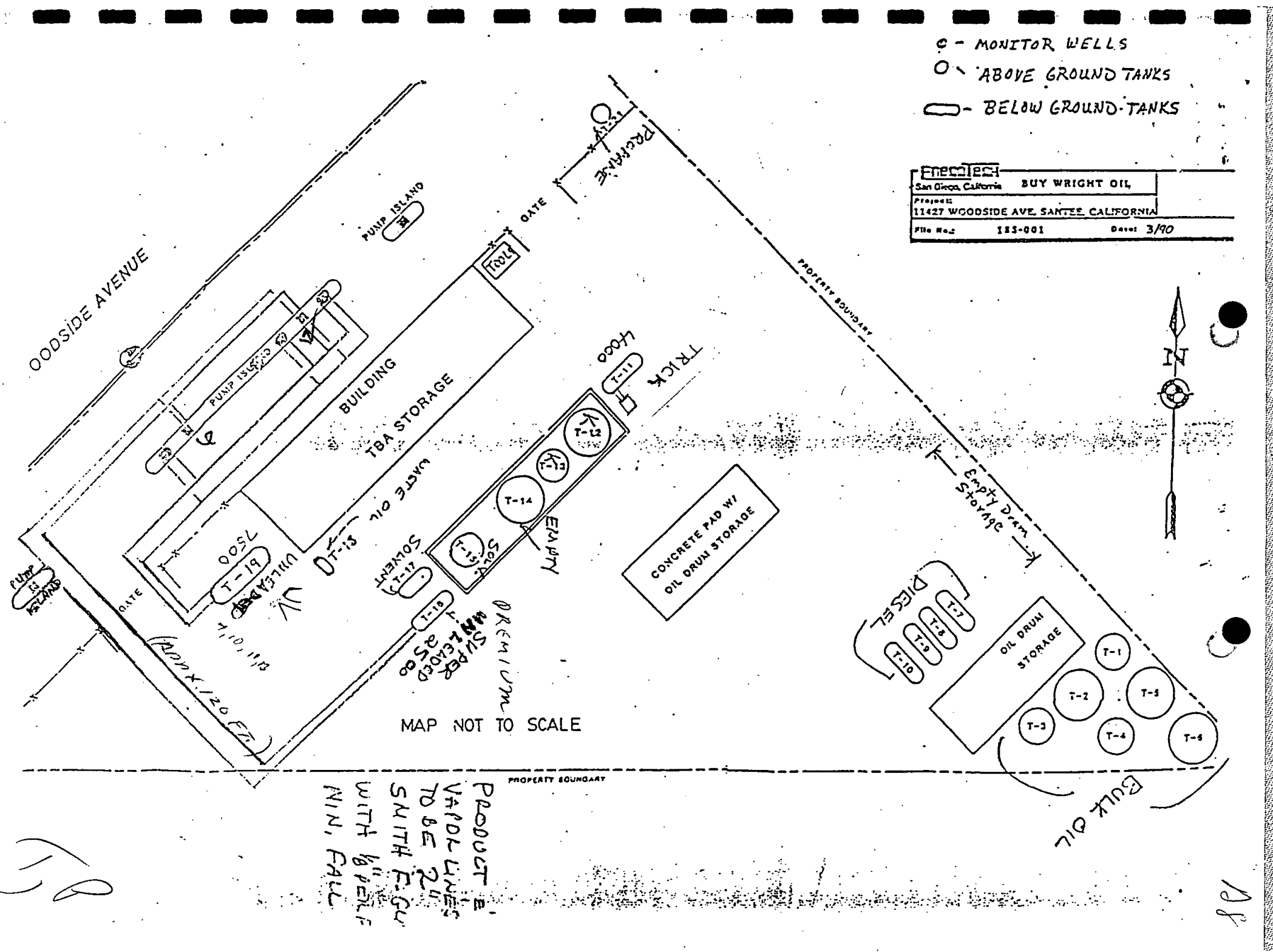
Vent

2000 UG

Volume: 2650 Per Mo.

Bennett # 3366
SUCTION Pump
Nozzle: A-3003
Emc WHEATON
over-head RETRACTOR

8/29/85
G. STEPHEN HENDRICK


¢ - MONITOR WELLS
O - ABOVE GROUND TANKS
⬭ - BELOW GROUND TANKS
Enecotech
San Diego, California
BUY WRIGHT OIL
Project:
11427 WOODSIDE AVE. SANTEE, CALIFORNIA
File No.: 185-001
Date: 3/90
WOODSIDE AVENUE
PUMP ISLAND
GATE
PROPANE
PROPERTY BOUNDARY
PUMP ISLAND
BUILDING
TBA STORAGE
WASTE OIL
T-13
T-11
4000
TRUCK
T-12
T-14
T-15
SOLVENT
T-17
T-18
SUPER UNLEADED 3500
PREMIUM
EMPTY
CONCRETE PAD W/ OIL DRUM STORAGE
Empty Drum Storage
DIESEL
T-7
T-8
T-9
T-10
OIL DRUM STORAGE
T-1
T-2
T-3
T-4
T-5
T-6
USED OIL
5000
T-19
UNLEADED
4,000 GAL
PUMP ISLAND
GATE
200 X 120 FT.
MAP NOT TO SCALE
PROPERTY BOUNDARY
PRODUCT & VAPOR LINES TO BE 2" SCH 40 PVC WITH 1/8 PERF. MIN. FALL
N

- Site MAP -

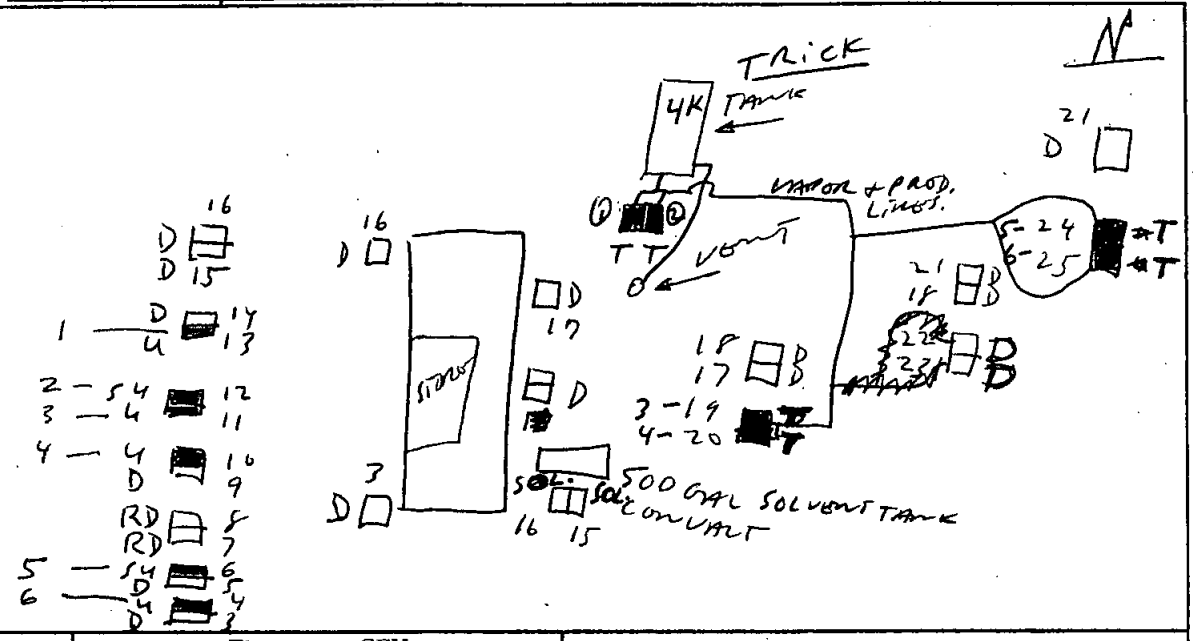
EL Capitan Oil
11427 Woodside Ave
Santee CA 92071

PHASE II BALANCE SYSTEMS PRESSURE DROP DURING FLOW TEST & LIQUID BLOCKAGE TEST

Site DBA: EL CAPITAN OIL
Address: 11427 WOODSIDE AVE
SANTEE, CA. 92071
APCD Observer: RON

Test Date: 28 MAY 96
Test Contractor: VERDUGO
Test Conductor: FERNANDO
Office Phone No.:

Site Plan:



NOZ. NO.	PROD.	Flowmeter, CFH				COMMENTS
		ΔP Test			WET TEST	
		20	60	100	60	
1	TRICK	.04	.21	.46	.21	
2	112 OCTANE	.04	.20	.48	—	
3 19		.02	.20	.40	.20	
4 20		.04	.20	.44	—	
5 25		.04	.20	.50	.20	
6 24	↓	.04	.18	.40	—	
7						
8						
9						
10						
11						
12						
13						
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15						
16						
17						
18						
19						
20						
21						
22						
23						
24						A-10'J

INSTALLATION

EL Capitan Oil

11427 Woodside Avenue

DATA CHART FOR TANK SYSTEM TIGHTNESS TEST

2C178

PETRO-TITE — DATE: 8-18 & 8-19-86

OWNER: PROP.	NAME:	RAM OIL
TANKS XX	ADDRESS:	11427 WOODSIDE AVE. SANTEE, CA 92071 — TELE: 619-448-5891
REASON FOR TEST	TO DETERMINE TIGHTNESS OF:	UNDERGROUND ISOLATED TANKS UNDERGROUND TANK/SYSTEMS ****
WHO REQUESTED TEST AND WHEN	NAME:	JIM WIGINGTON
WHO IS PAYING FOR THIS TEST	NAME:	RAM OIL

TANKS INVOLVED

	DIRECTION	CAPACITY	BRAND	GRADE	STEEL/FIBERGLASS
	#2	7,500		REGULAR	STEEL
SIPHONE\	#7	6,198		DIESEL	STEEL
SIPHONE/	#8	6,198		DIESEL	STEEL
SIPHONE\	#9	6,198		DIESEL	STEEL
SIPHONE/	#10	6,198		DIESEL	STEEL
	#5	2,510		SOLVENT	STEEL
	#6	2,015		UNLEADED	STEEL
	#4	550		KEROCINE	STEEL
	#1	550		RACING GAS	STEEL
	#3	550		WASTE OIL	STEEL

INSTALLATION DATA

LOCATION	COVER	FILLS	VENTS	SIPHONES	PUMPS
	CONCRETE A.C. PAVE DIRT	2" 4"	2" 1 1/2"	YES	REMOTE SUCTION

UNDERGROUND WATER — DEPTH OF WATER TABLE: — IS WATER OVER TANK: YES----- NO----- X

FILL-UP ARRANGEMENTS — DATE TANKS TO BE FILLED: 8-18 & 8-19-86 @ 7:00 A.M. — ARRANGED BY: JIM WIGINGTON

TEST RESULTS

	TANK IDENTIFICATION		TIGHT	LEAKAGE INDICATED	DATE TESTED
	7,500	REGULAR	YES	+.040 GALS. PER HR.	8-18 & 8-19-86
SIPHONE\	6,198	DIESEL	YES	-.038 GALS. PER HR.	8-18 & 8-19-86
SIPHONE/	6,198	DIESEL	YES	-.038 GALS. PER HR.	8-18 & 8-19-86
SIPHONE\	6,198	DIESEL	YES	-.045 GALS. PER HR.	8-18 & 8-19-86
SIPHONE/	6,198	DIESEL	YES	-.045 GALS. PER HR.	8-18 & 8-19-86
	2,510	SOLVENT	YES	-.012 GALS. PER HR.	8-18 & 8-19-86
	2,015	UNLEADED	NO	-3.466 GALS. PER HR	8-18 & 8-19-86
	550	KEROCINE	YES	-.020 GALS. PER HR.	8-18 & 8-19-86
	550	RACING GAS	YES	-.039 GALS. PER HR.	8-18 & 8-19-86
	550	WASTE OIL	YES	-.032 GALS. PER HR.	8-18 & 8-19-86

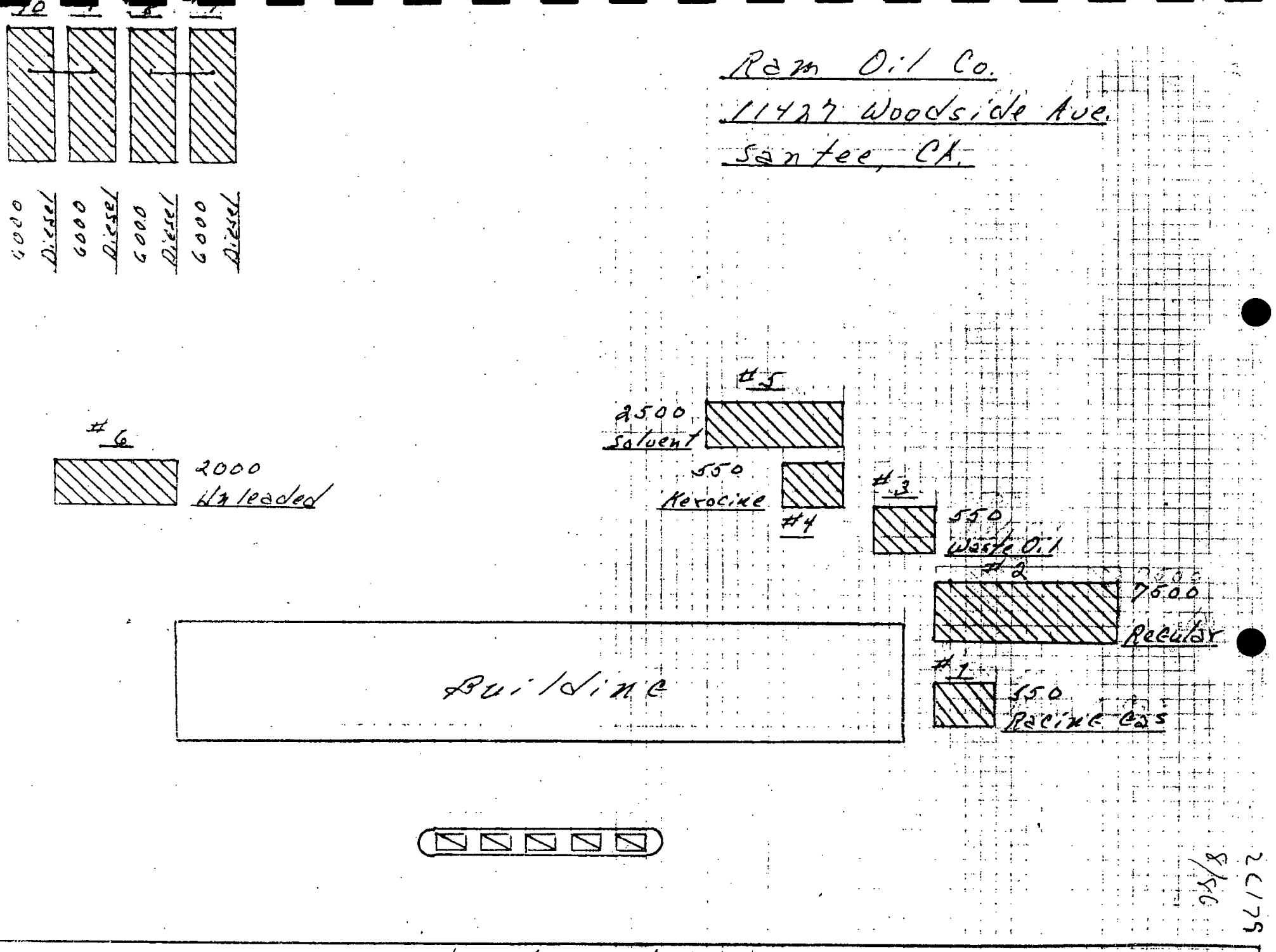
CERTIFICATION JULY 1985
VARIOUS
serial no thermal sensor

THIS IS TO CERTIFY THAT THESE TANK SYSTEMS WERE TESTED ON THE DATE(S) SHOWN. THOSE INDICATED AS "TIGHT" MEET THE CRITERIA ESTABLISHED BY THE NATIONAL FIRE PROTECTION ASSOC. PAMPH.329

DAVE PROCTOR
MIKE REYOME
DICK CUMMINGS
technicians

VOWCO INC.
1450 N. EL CAMINO REAL #C
SAN CLEMENTE, CA 92672

serial # 414810788


Ram Oil Co.
11427 Woodside Ave.
Santee, CA.
#10
6000
Diesel
#9
6000
Diesel
#8
6000
Diesel
#7
6000
Diesel
#5
2500
Solvent
#6
2000
Unleaded
550
Kerosine
#4
#3
550
Waste Oil
#2
7500
Regular
#1
550
Racing Gas
Building
Woodside Avenue
8/80
27/75

File reviewing Cyn please input 2/6/91 H19469 92071 5/89

SOILTEST®

AINLAY TANK 'TEGRITY TESTER™ FIELD TEST DATA

1 TANK OPERATOR

NAME: BUY WRIGHT OIL
ADDRESS: 1142 [illegible] SANTEE, CA
PHONE (619) 449-5140
ATTN: GREG BARNICLE

2 TANKS TO BE TESTED

IDENTIFICATION	CAPACITY—GALS.	MANUFACTURER	STEEL/FIBRGLS.	AGE—YRS.
#1 GOLD	4000 7	LOOR	STEEL	UNKNOWN
#2 REGULAR	2500 12	"	"	"
#3 SOLVENT	550 11	"	"	"
#4 UNLEADED	7500 5	"	"	"
#5 & #6 DIESEL	6000 EACH	"	"	"

3 WATER TABLE

DISTANCE FROM GRADE TO WATER UNKNOWN FT.

4 TANK FILL-UP

TANK WILL BE FILLED 1600 (TIME) ON 5/6/89
EXTRA 5 GALS PRODUCT AVAILABLE FROM CUSTOMER
FILL UP TO BE ARRANGED BY MR. GREG BARNICLE PHONE (619) 449-5140
CONTACT AT STORAGE TERMINAL IS MR. _____ PHONE ( )

5 OUTSIDE CONTRACTORS

NAME	ADDRESS	PHONE
NONE		

6 OFFICIALS TO BE CONTACTED

NAME	AUTHORITY	PHONE
NONE		

7 SPECIAL NOTES OR PRECAUTIONS

TESTS CONDUCTED AS "TANK SYSTEM TEST
#5 & #6 DIESEL TANKS ARE MANIFOLDED TOGETHER AND WERE TESTED AS A "MANIFOLDED SYSTEM".

8 TEST RESULTS

ALL TESTS WERE PERFORMED IN ACCORDANCE WITH PROCEDURES DESCRIBED IN SOILTEST'S INSTRUCTION BOOK. CRITERIA FOR TIGHTNESS IS ESTABLISHED BY NATIONAL FIRE PROTECTION ASSOCIATION BULLETIN, N.F.P.A. 329.

TANK IDENT	TANK IS TIGHT	TANK IS NOT TIGHT	LEAK RATE G. P. H.	TEST DATE
#1 GOLD	✓		-.021	5-7-89
#2 REGULAR	✓		+.044	5-7-89
#3 SOLVENT	✓		-.003	5-7-89
#4 UNLEADED	✓		+.017	5-7-89
#5 & #6 DIESEL (MANIFOLDED)	✓		-.024	5-7-89

9 CERTIFICATION

THIS CERTIFIES THAT THE TANKS DESCRIBED WERE TESTED BY THE UNDERSIGNED AND THAT THE STATED RESULTS REPRESENT THE TRUE STATE OF THE TANKS ON THIS DATE TO THE BEST OF MY KNOWLEDGE.

SIGNED Paul Montijo
CERTIFICATE NO. 1104
ISSUE DATE 7-9-87

FOR (TEST COMPANY) MONTIJO ENVIRONMENTAL CO.
ADDRESS P. O. BOX 83
POWAY, CA 92064
(619) 487-4303
ZIP

ST-6 (REV. 2/87)

TEST SITE LAYOUT

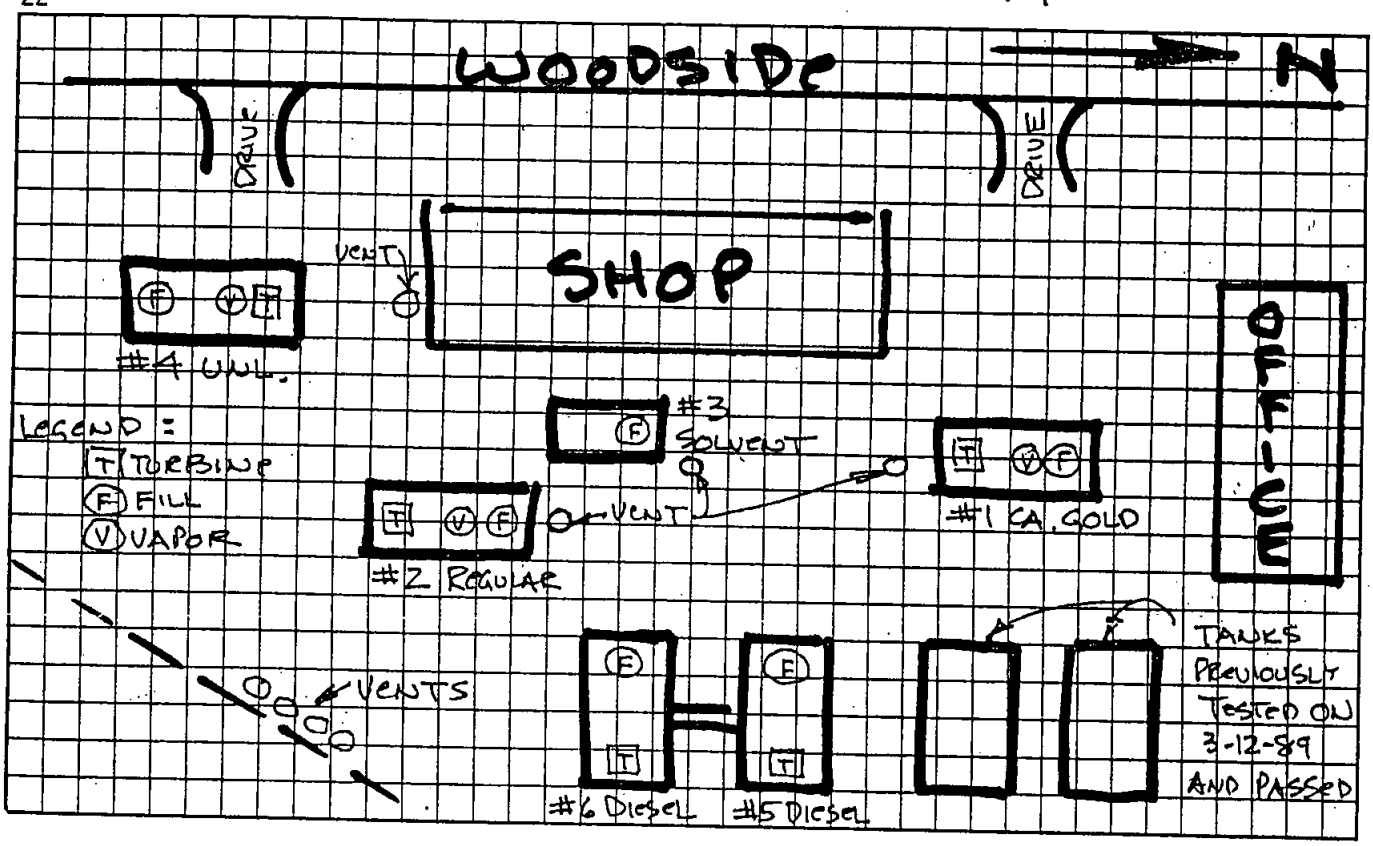
5/89

2 6172

22

TESTER TIM MONTIJO

TEST COMPANY MONTIJO ENVIRONMENTAL



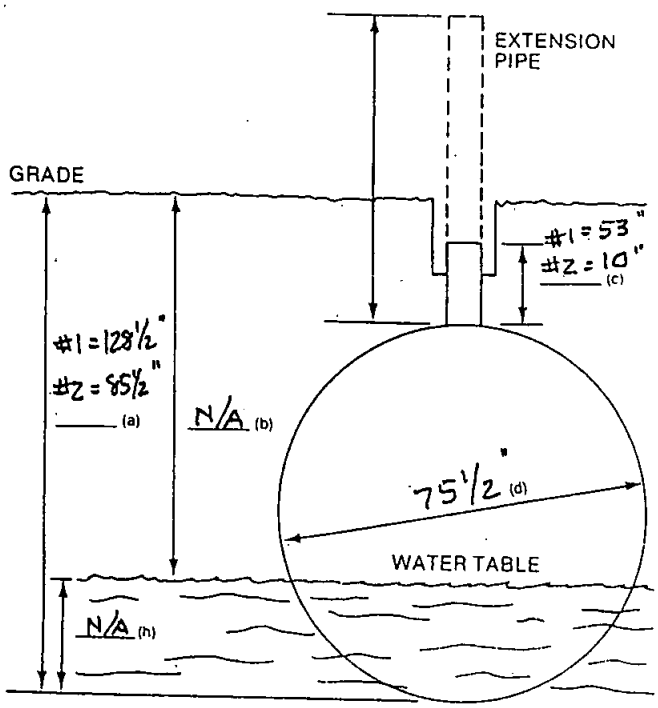
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DATE 5/17/89

ADDRESS 11427 WOODSIDE SANTEE, CA

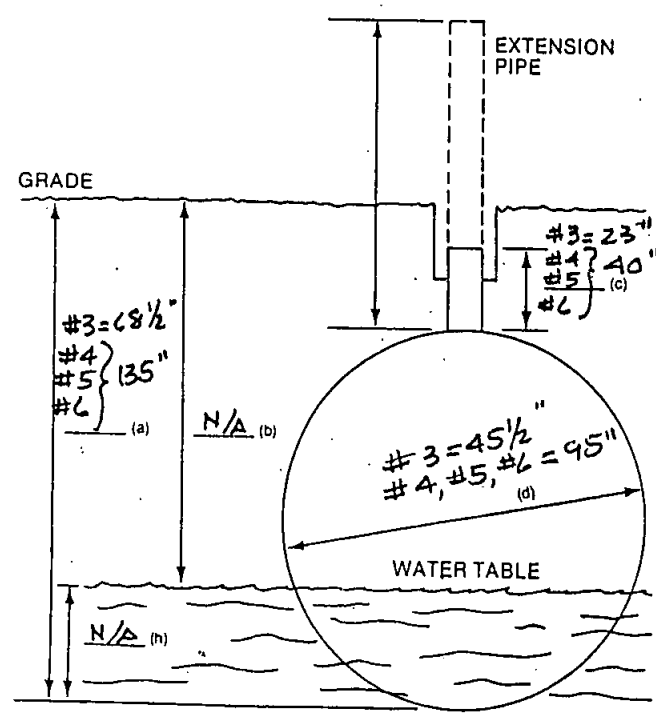
BUSINESS NAME CHEVRON

TEST 1: TANK DIMENSIONS



TANK IDENT. #1 CALIF. GOLD
#2 REGULAR

TEST 2: TANK DIMENSIONS



TANK IDENT. #3 SOLUENT / #4 UNLEAD
#5 & #6 DIESEL

TANK INTEGRITY TEST REPORT

HAZARDOUS MATERIALS MANAGEMENT DIVISION

2C/61

KTC

[✓] All of the tanks and associated piping have tested tight

[ ] Some of the tanks and associated piping have failed tightness test

OFFICE USE ONLY
Est. # H 19409
Date Rec 2/21/92
Tester on file y/n

Reason for Tank System Testing: X Annual Test ___ Suspected Leak ___ Retest After Repair

Other Reason for Tank Testing ___

TANK LOCATION	ADDRESS 11429 WOODSIDE	
	CITY SANTEE CA.	ZIP 92071
TANK OPERATOR	NAME EL CAPITAN OIL	PHONE 258-7113
TANK OWNER	NAME JIM WIGINGTON	PHONE 258-7113
	ADDRESS SAME	
	CITY	ZIP

TANK NO.	TANK CAPACITY	PRODUCT LINE PASS/FAIL	FILL/VENT VAPOR PASS/FAIL	TANK GAL/HOUR	TANK PASS/FAIL	TEST DATE
#13	AK-TRICK	N/A	PASS	+.001	PASS	1-10-92
#11	2500 - REG UNL	-.004 GPH PASS	PASS	-.049	PASS	1-10-92
#12	550 - SOLVENT	N/A	PASS	+.021	PASS	1-10-92
#5	7500 - SUPER	.1 000 GPH PASS	PASS	-.018	PASS	1-10-92
#10	550 WASTE	N/A	PASS	+.041	PASS	1-10-92

If the water table is above the bottom of the UST, the test procedure compensating for its presence must be used. Compensating Procedure ___ N/A X

Method of Product Line Test PETRO TITE LINE TESTER

Method of Vent/Vapor/Remote Fill Line Test OVERFILL TANK SYSTEM TEST

Indicate Which (if any) Tanks are Manifolded NONE

These test results have been conducted and performed, by a tester certified according to the requirements of the tank test equipment manufacturer. The tester is licensed by the Water Resources Control Board Office of Tank Tester Licensing and meets the requirements of Subchapter 17, Title 23, of the CA Code of regulations (effective January 1, 1990). The tank owner has been notified of these results; and has been advised of the reporting requirements for integrity testing. This UST tightness test is approved by the State Water Resources Control Board(SWRCB) and third party verification, and meets its applicable limitations.

Testing company MONTIJO ENVIRONMENTAL CO

Name of Test Equipment AINLAY TEGRITY TESTER (S-3)

Name of Licensed Tester BOB MONTIJO License No. 91-1138

Signature of tester Bob Montijo Date 1/10/92

COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

EHM-965 (REV 1/91)

HAZARDOUS MATERIALS MANAGEMENT DIVISION
P.O. BOX 85621
SAN DIEGO, CA. 92138-5261 (619) 338-2222

2C162

TANK INTEGRITY TEST REPORT

HAZARDOUS MATERIALS MANAGEMENT DIVISION

☒ All of the tanks and associated piping have tested tight

☐ Some of the tanks and associated piping have failed tightness test

OFFICE USE ONLY
Est. # H 194169
Date Rec / /
Tester on file y/n

Reason for Tank System Testing: X Annual Test ___ Suspected Leak ___ Retest After Repair
Other Reason for Tank Testing ___

TANK LOCATION	ADDRESS 11429 WOODSIDE		
	CITY SANTEE CA		ZIP 92071
TANK OPERATOR	NAME EL CAPITAN OIL		PHONE 258 7113
TANK OWNER	NAME JIM WIGINGTON		PHONE 258 7113
	ADDRESS SAME		
	CITY		ZIP

TANK NO.	TANK CAPACITY	PRODUCT LINE PASS/FAIL	FILL/VENT VAPOR PASS/FAIL	TANK GAL/HOUR	TANK PASS/FAIL	TEST DATE
8	6K DIESEL	N/A	PASS	+.009	PASS	1-9-92
9	6K DIESEL	+.000 GPH PASS	PASS	+.050	PASS	1-9-92
10	6K DIESEL	±.000 GPH PASS	PASS	+.050	PASS	1-9-92
4						
5						

If the water table is above the bottom of the UST, the test procedure compensating for its presence must be used. Compensating Procedure ___ N/A X

Method of Product Line Test PETRO TITE LINE TESTER

Method of Vent/Vapor/Remote Fill Line Test OVERFILL TANK TEST

Indicate Which (if any) Tanks are Manifolded #9 & #10 DIESEL

These test results have been conducted and performed, by a tester certified according to the requirements of the tank test equipment manufacturer. The tester is licensed by the Water Resources Control Board Office of Tank Tester Licensing and meets the requirements of Subchapter 17, Title 23, of the CA Code of regulations (effective January 1, 1990). The tank owner has been notified of these results; and has been advised of the reporting requirements for integrity testing. This UST tightness test is approved by the State Water Resources Control Board(SWRCB) and third party verification, and meets its applicable limitations.

Testing company MONTIJO ENVIRONMENTAL CO

Name of Test Equipment ANULAY TEGRITY TESTER (S-3)

Name of Licensed Tester BOB MONTIJO License No. 91-1138

Signature of tester Bob Montijo Date 1/ /92

COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES
S:HM-965 (REV 1/91)

HAZARDOUS MATERIALS MANAGEMENT DIVISION
P.O. BOX 85621
SAN DIEGO, CA. 92138-5261 (619) 338-2222

SOILTEST

2C163
H194609

AINLAY TANK 'TEGRITY TESTER™ FIELD TEST DATA

TANK OPERATOR

NAME / ADDRESS / PHONE

EL CAPITAN OIL — PHONE 619 258-7113
11429 WOODSIDE — ATTN JIM WIGINGTON
SANTEE, CA

TANKS TO BE TESTED

IDENTIFICATION	CAPACITY—GALS.	MANUFACTURER	STEEL/FIBRGLS.	AGE—YRS.
#1 TRICK	4K	UNKNOWN	STEEL	UNKNOWN
#5 WASTE	550	"	"	"
#8 DIESEL	6K	"	"	"
#9 DIESEL	6K	"	"	"
#10 DIESEL	6K	"	"	"

WATER TABLE

DISTANCE FROM GRADE TO WATER UNKNOWN ~~INS.~~

TANK FILL-UP

TANK WILL BE FILLED 2000 (TIME) ON 1/9/92
EXTRA 5 GALS PRODUCT AVAILABLE FROM CUSTOMER
FILL UP TO BE ARRANGED BY MR. JIM WIGINGTON PHONE (619) 258-7113
CONTACT AT STORAGE TERMINAL IS MR. _____ PHONE ( )

OUTSIDE CONTRACTORS

NAME / ADDRESS / PHONE

NONE

OFFICIALS TO BE CONTACTED

NAME / AUTHORITY / PHONE

SAN DIEGO HEALTH DEPT. (HMMD) TO BE SENT COPY OF TEST REPORT

SPECIAL NOTES OR PRECAUTIONS

TEST CONDUCTED AS OVERFILL TANK SYSTEM
TEST #5 8, 9 & 10 HAD PRODUCT LINES ISOLATED & TESTED AT 50 PSI

TEST RESULTS

ALL TESTS WERE PERFORMED IN ACCORDANCE WITH PROCEDURES DESCRIBED IN SOILTEST'S INSTRUCTION BOOK. CRITERIA FOR TIGHTNESS IS ESTABLISHED BY NATIONAL FIRE PROTECTION ASSOCIATION BULLETIN. N.F.P.A. 329.

TANK IDENT	TANK IS TIGHT	TANK IS NOT TIGHT	LEAK RATE G. P. H.	TEST DATE
#1 TRICK - 4K	✓		+.001	1-10-92
#5 WASTE - 550 GAL	✓		+.041	1-10-92
#8 DIESEL 6K	✓		+.009	1-10-92
#9 DIESEL 6K	✓		+.050	1-10-92
#10 DIESEL 6K	✓		+.050	1-10-92

CERTIFICATION

THIS CERTIFIES THAT THE TANKS DESCRIBED WERE TESTED BY THE UNDERSIGNED AND THAT THE STATED RESULTS REPRESENT THE TRUE STATE OF THE TANKS ON THIS DATE TO THE BEST OF MY KNOWLEDGE.

SIGNED Karl Montijo

FOR (TEST COMPANY) MONTIJO ENVIRONMENTAL CO.
ADDRESS P. O. BOX 83
POWAY, CA 92064
(619) 487-4303

TEST TECHNICAN: BOB MONTIJO
LICENSE # 91-1138

SOILTEST

2 of 69

H19469

AINLAY TANK 'TEGRITY TESTER™ FIELD TEST DATA

1 TANK OPERATOR

NAME / ADDRESS / PHONE

EL CAPITAN OIL — PHONE 619 258-7113

11429 WOODSIDE — ATTN JIM WIGINGTON

SANTEE, CA.

2 TANKS TO BE TESTED

IDENTIFICATION	CAPACITY—GALS.	MANUFACTURER	STEEL/FIBRGLS.	AGE—YRS.
#2 - REG UNL	2500	UNKNOWN	STEEL	UNKNOWN
#3 - SOLVENT	550	"	"	"
#4 - SUPER UNL	7500	"	"	"

3 WATER TABLE

DISTANCE FROM GRADE TO WATER UNKNOWN ~~INS.~~

4 TANK FILL-UP

TANK WILL BE FILLED 2000 (TIME) ON 1/8/92

EXTRA 5 GALS PRODUCT AVAILABLE FROM CUSTOMER

FILL UP TO BE ARRANGED BY MR. JIM WIGINGTON PHONE (619) 258-7113

CONTACT AT STORAGE TERMINAL IS MR. _____ PHONE ( )

OUTSIDE CONTRACTORS

NAME / ADDRESS / PHONE

NONE

5 OFFICIALS TO BE CONTACTED

NAME / AUTHORITY / PHONE

SAN DIEGO HEALTH DEPT (HMMD) TO BE SENT COPY OF TEST REPORT

SPECIAL NOTES OR PRECAUTIONS

TEST CONDUCTED AS OVERFILL SYSTEM TEST TANKS #2 & #4 HAD PRODUCT LINES ISOLATED AND TESTED AT 50 PSI

TEST RESULTS

ALL TESTS WERE PERFORMED IN ACCORDANCE WITH PROCEDURES DESCRIBED IN SOILTEST'S INSTRUCTION BOOK. CRITERIA FOR TIGHTNESS IS ESTABLISHED BY NATIONAL FIRE PROTECTION ASSOCIATION BULLETIN. N.F.P.A. 329.

TANK IDENT	TANK IS TIGHT	TANK IS NOT TIGHT	LEAK RATE G. P. H.	TEST DATE
#2 REGULAR UNLEADED	✓		-.049	1-9-92
#3 SOLVENT	✓		+.021	1-9-92
#4 SUPER UNLEADED	✓		-.018	1-9-92

9 CERTIFICATION

THIS CERTIFIES THAT THE TANKS DESCRIBED WERE TESTED BY THE UNDERSIGNED AND THAT THE STATED RESULTS REPRESENT THE TRUE STATE OF THE TANKS ON THIS DATE TO THE BEST OF MY KNOWLEDGE.

SIGNED Karl Montijo

FOR (TEST COMPANY) MONTIJO ENVIRONMENTAL CO.

ADDRESS P. O. BOX 83
POWAY, CA 92064
(619) 487-4303

TEST TECHNICAN: BOB MONTIJO

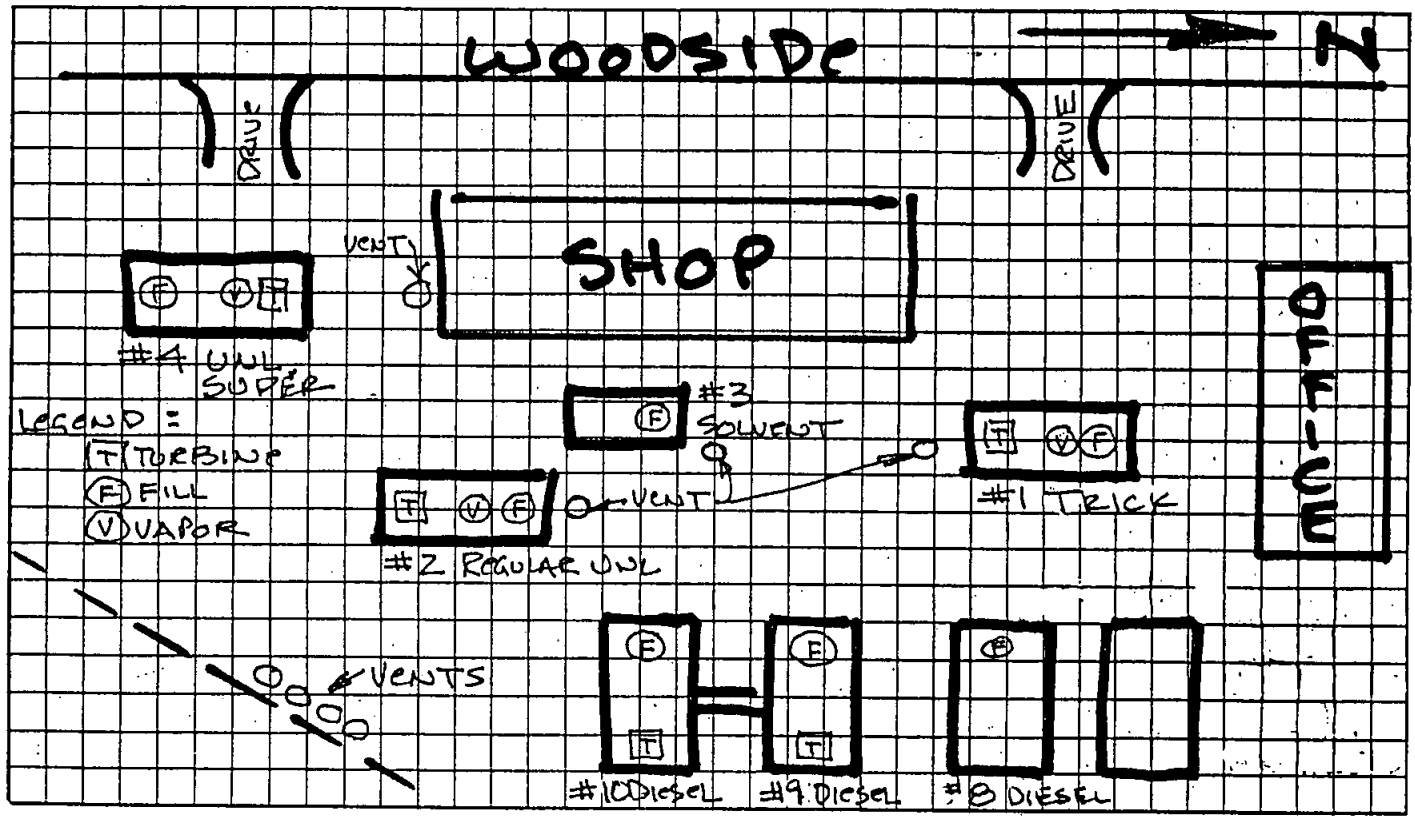
LICENSE # 91-1138

2c165

H19469

TEST SITE LAYOUT

22

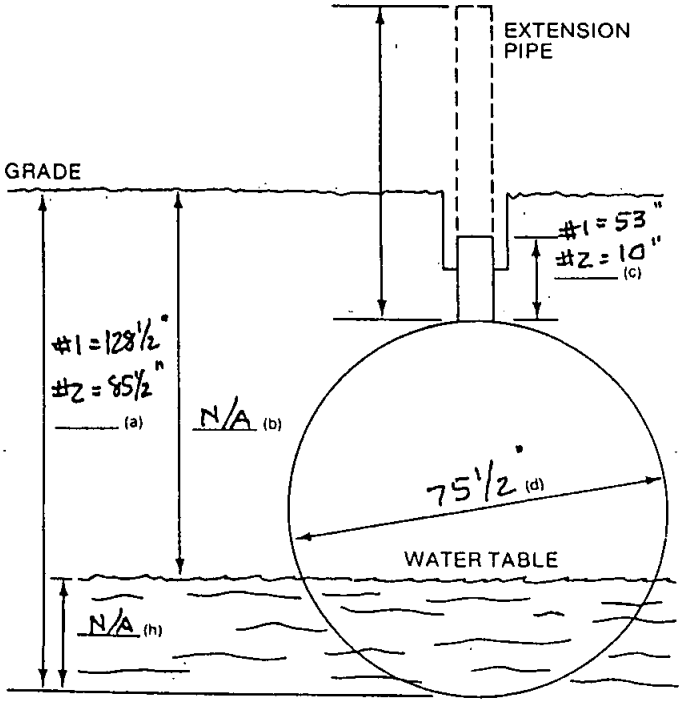


TESTER Tom Mostiso

TEST COMPANY Montijo Environmental

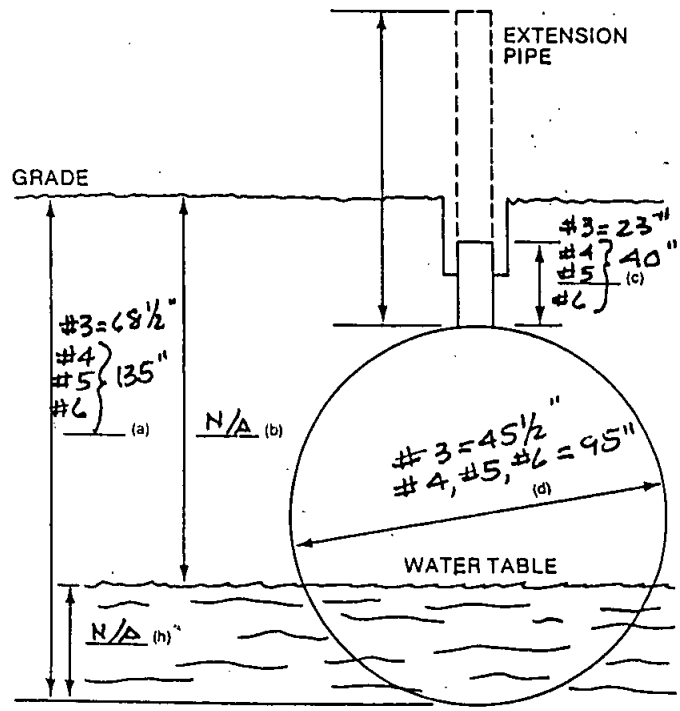
23

TEST 1: TANK DIMENSIONS



TANK IDENT. #1 TRICK
#2 REGULAR UNL

TEST 2: TANK DIMENSIONS



TANK IDENT. #3 SOLVENT / #4 SUPER UNLEAD
#8, #9 & #10 DIESEL

JOB # 6 CARTAS DATE 1/10/92

ADDRESS 11427 WOODSIDE SANTEE, CA

2 C152

TANK INTEGRITY TEST REPORT

HAZARDOUS MATERIALS MANAGEMENT DIVISION

OFFICE USE ONLY

Permit # _____ Date by: 1/2 _____ Time: _____

TANK LOCATION	ADDRESS 11429 Woodside		
	CITY Santee, Ca	ZIP 92071	
TANK OPERATOR	NAME El Capitan Oil	PHONE (619) 258-7113	
TANK OWNER	NAME Jim Wigington	PHONE (619) 258-7113	
	ADDRESS P.O. Box 2504		
	CITY Spring Valley, Ca	ZIP 91977	

Reason for Tank System Testing: ☑ Annual Test ☐ Retest After Repair ☐ Suspected Leak

☐ Triannual Product Suction/Remote Fill Line ☑ Annual Product Pressure Line ☐ Other _____

PRESENCE OF GROUNDWATER MUST BE DETERMINED OR TEST RESULTS WILL BE INVALID

Method for determining groundwater in tank excavation: point Well

Was groundwater encountered in tank excavation? ☐ Yes ☑ No

If yes, state groundwater compensation procedure used _____

Automatic Line Leak Detector Tested in accordance with CCR Section 2641 (i) ☑ Yes ☐ No

Type of Product Line/Fill Delivery: ☑ Pressurized ☐ Remote Fill ☑ Suction ☐ Other _____

Type of Spill/Overfill Prevention: ☐ Positive Shut Off ☐ Ball Floats ☐ High Level Alarm

Tank No.	Tank Capacity	Tank Content	Product Line		Overfilled Tank Test Including Vault/Riser Fill		Underfilled Tank Test (Spill/Overfill Prevention Equipment Required)		Test Date
			gal/Hour	Pass/Fail	gal/Hour	Pass/Fail	gal/Hour	Pass/Fail	
1	550	waste	N/A	N/A	.004	Pass	N/A	N/A	3-24-93
3	550	Solvent	N/A	N/A	-.004	Pass	N/A	N/A	3-24-93
2	2500	unlead	-.003	Pass	.037	Pass	N/A	N/A	3-25-93
4	7500	Unlead	-.003	Pass	.037	Pass	N/A	N/A	3-25-93

These test results have been conducted and performed, by a tester certified according to the requirements of the tank test equipment manufacturer. The tester is licensed by the Water Resources Control Board Office of Tank Tester Licensing and meets the requirements of Subchapter 17, Title 23, of the CA Code of regulations (Effective January 1, 1990). The tank owner has been notified of these results, and has been advised of the reporting requirements for integrity testing. This UST tightness test is approved by the State Water Resources Control Board(SWRCB), has received third party verification, and meets its applicable limitations.

Testing company: Montijo Environmental Co

Name of Test Equipment: Ainlay Tegrity Tester & Petrofite Line

Name of Licensed Tester: Tim Montijo License No. 91-1090

Signature of tester: _____ Date 3/24/93 3-25-93

COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

HAZARDOUS MATERIALS MANAGEMENT DIVISION
P.O. BOX 85021
SAN DIEGO, CA. 92186-5261 (619) 338-2222

DHSEHM-065 (REV 7/92)

SEP 08 '93 16:48 MONTIJO ENVIRONMENTAL CO

2 c/53

TANK INTEGRITY TEST REPORT

HAZARDOUS MATERIALS MANAGEMENT DIVISION

FOR OFFICE USE ONLY

Date Rec'd: Date Reviewed: Test Date:

TANK LOCATION	ADDRESS	11429 Woodside	
	CITY	Santee Ca.	ZIP 92071
TANK OPERATOR	NAME	El Capitan Oil	PHONE (619) 258-7113
TANK OWNER	NAME	Jim Wigington	PHONE (619) 258-7113
	ADDRESS	P.O. Box 2504	
	CITY	Spring Valley, Ca	ZIP 91977

Reason for Tank System Testing: ☑ Annual test ☐ Retest After Repair ☐ Suspected Leak

☐ Triannual Product Suction/Remote Fill Line ☐ Annual Product Pressure Line ☐ Other _____

PRESENCE OF GROUNDWATER MUST BE DETERMINED OR TEST RESULTS WILL BE INVALID

Method for determining groundwater in tank excavation _____

Was groundwater encountered in tank excavation? ☐ Yes ☐ No

If yes, state groundwater compensation procedure used _____

Automatic Line Leak Detector Tested in accordance with CCR Section 2641 (i) ☐ Yes ☐ No

Type of Product Line/Fill Delivery: ☐ Pressurized ☐ Remote Fill ☐ Suction ☐ Other _____

Type of Spill/Overfill Prevention: ☐ Positive Shut Off ☐ Ball Floats ☐ High Level Alarm

Tank No.	Tank Capacity (gal)	Tank Content	Product Line		Overfill/Tank Tester (including Vent Vapor Fill)		Spill/Overfill Prevention equipment Test(s)		Test Date
			Gal/Hour	Pass/Fail	Gal/Hour	Pass/Fail	Gal/Hour	Pass/Fail	
7	10000	Diesel	N/A	N/A	-.032	Pass	N/A	N/A	3-24-93
8	10000	Diesel	N/A	N/A	-.007	Pass	N/A	N/A	3-24-93
9	10000	Diesel	-.001	Pass	-.031	Pass	N/A	N/A	3-25-93
10	10000	Diesel	-.001	Pass	-.031	Pass	N/A	N/A	3-25-93

These test results have been conducted and performed, by a tester certified according to the requirements of the tank test equipment manufacturer. The tester is licensed by the Water Resources Control Board Office of Tank Tester Licensing and meets the requirements of Subchapter 17, Title 23, of the CA Code of regulations (Effective January 1, 1990). The tank owner has been notified of these results, and has been advised of the reporting requirements for integrity testing. This UST tightness test is approved by the State Water Resources Control Board(SWRCB), has received third party verification, and meets its applicable limitations.

Testing company Montijo Environmental Co

Name of Test Equipment Ainlay Tegrity Tester & Petrofite Line

Name of Licensed Tester Tim Montijo License No. 91-1092

Signature of tester _____ Date 3/24/93 3-25-93

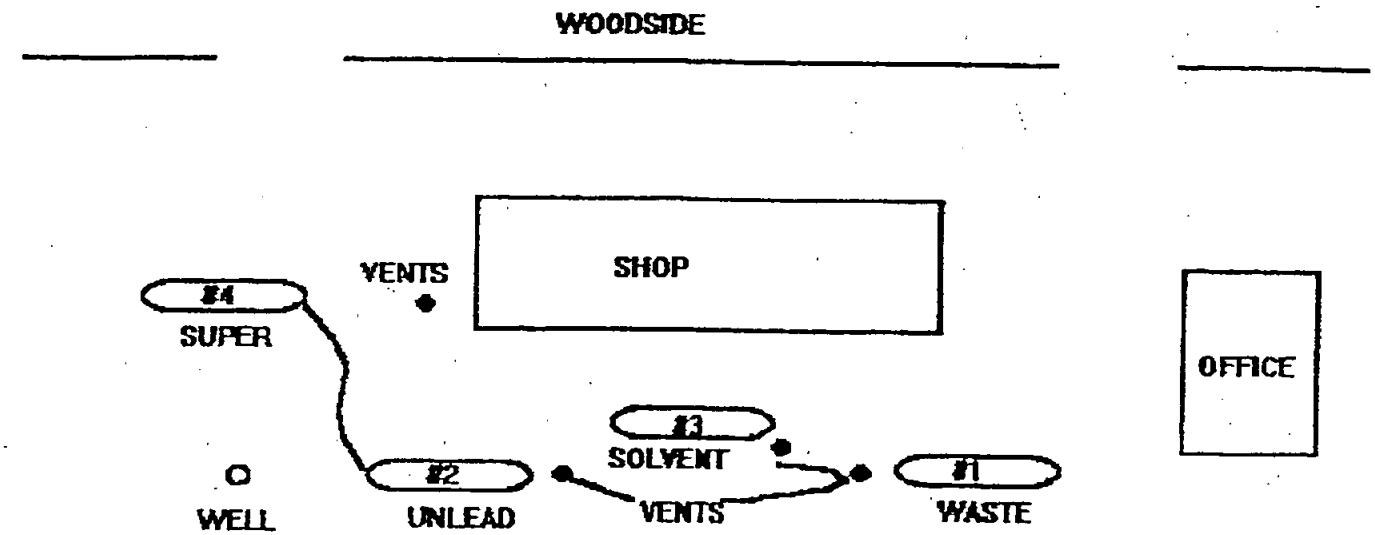
COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

DHS:HM-065 (REV 7/92)

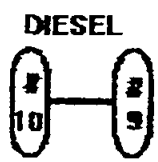
HAZARDOUS MATERIALS MANAGEMENT DIVISION
P.O. BOX 85261
SAN DIEGO, CA. 92186-5261 (619) 338-2222

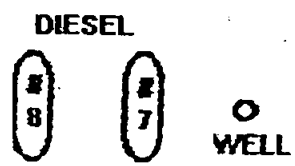
P.1

SEP 08 '93 16:47 MONTIJO ENVIRONMENTAL CO.









EL CAPITAN OIL
11427 WOODSIDE
SANTEE, CA.
3/24/93 3/25/93

MONTIJO ENVIRONMENTAL CO.
P.O. BOX 83
POWAY, CA. 92074-0083
(619)748-0533

2 of 4

C68

G. TANK OVERFILL PREVENTION:

☐ Product level sensing device with high level alarm and/or automatic shut off device

Manufacturer _____

☑ Ball float valve on vent or vapor lines

☑ Catchment basin surrounding fill pipe

NOTE: A MINIMUM OF BALL FLOAT VALVES AND CATCHMENT BASINS ARE REQUIRED FOR ALL TANK FACILITY REPIPES.

H. PROPOSED METHOD OF PIPE CLOSURE: ☐ REMOVAL ☐ CLOSURE IN PLACE

SAMPLING PROTOCOL Tank owner/authorized representative responsible for all sampling analyses and associated costs.

- for piping that is to be removed, the trenching shall be exposed prior to the scheduled inspection. sampling points will be identified by the HMMD inspector and samples taken every 20 feet.

-piping to be closed in place may be considered only if the removal might damage structures. Submit an alternate plan which must include soil sampling and/or hydrostatic testing.

I. ATTACH THREE COPIES OF PLANS SHOWING THE FOLLOWING (Must be drawn to scale):

1. Location of existing and proposed structures.
2. Location of all existing underground tanks and piping. (indicate what piping is to be closed in place or by removal)
3. Location of new piping, secondary containment, leak detection and overfill prevention.

J. REQUIRED INSPECTIONS-PIPING REPAIR/REPLACEMENT:

EACH PIPING REPAIR AND/OR REPLACEMENT MUST BE INSPECTED BY THE HMMD. TWO INSPECTIONS ARE REQUIRED.

1. FIRST INSPECTION:
-piping to be closed by removal. Trenching shall be exposed prior to the scheduled inspection and sampling points identified by the HMMD inspector.
-piping to be closed in place. Piping shall be capped and drained and per alternate approved plan, samples collected and/or hydrostatic testing witnessed by the HMMD inspector.
2. SECOND INSPECTION:
-pressure test of all piping repaired and/or replaced.
-verification of leak detection devices/secondary containment.
-verification of overfill prevention.

K. DECLARATION

I declare that to the best of my knowledge and belief the statements and information provided are correct and true. I understand that information in addition to that provided above may be needed in order to obtain final approval by the Hazardous Materials Management Division.

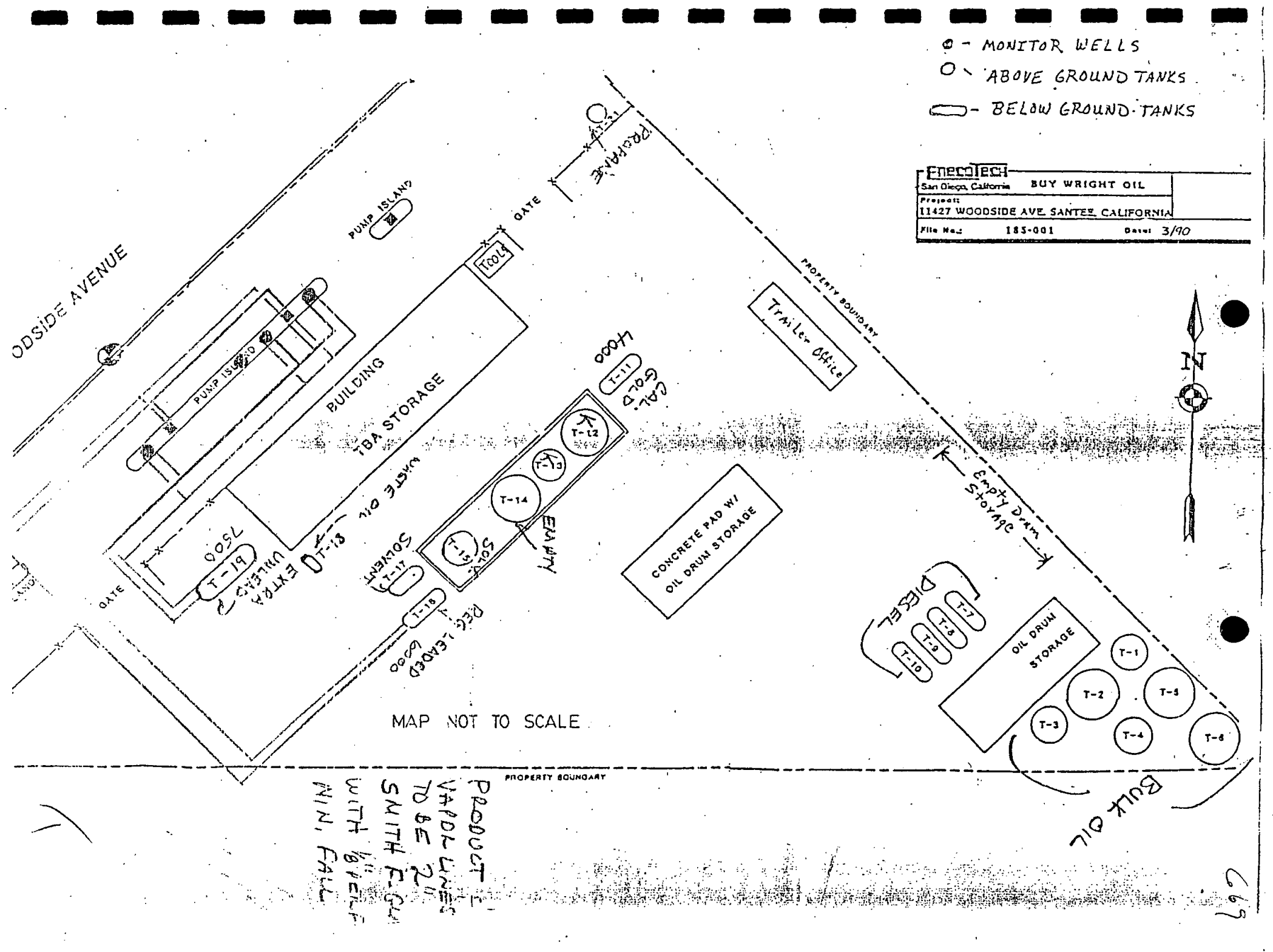
I understand that tests and procedures that may be required by other departments and agencies to demonstrate adequate site safety or suitability for further development (e.g. soil compaction testing) are in addition to the requirements of the Hazardous Materials Management Division.

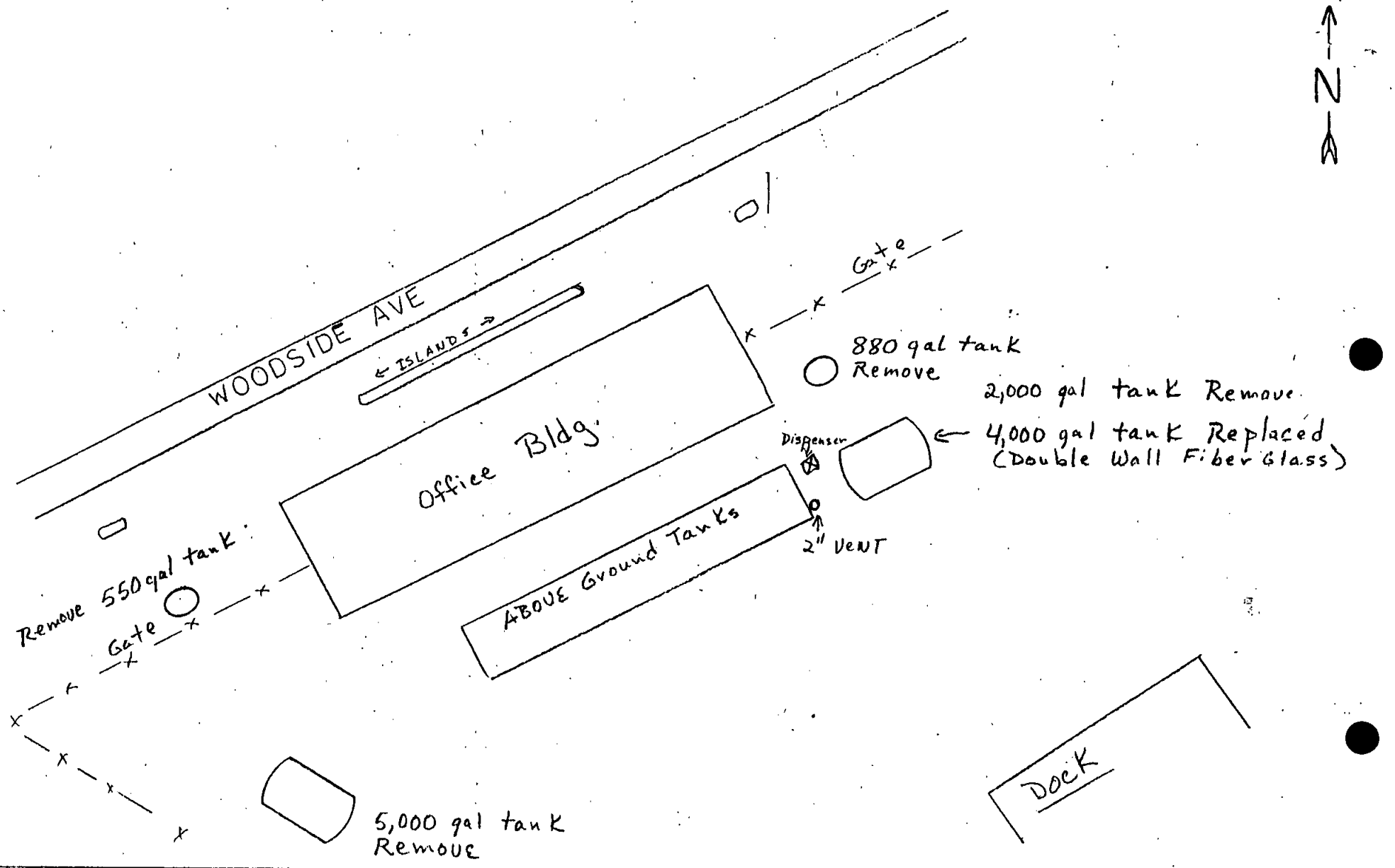
I will notify the Hazardous Materials Management Division at least two working days (48 hours) before work is to begin in order to schedule the required inspections. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that the responsibility is not shared or assumed by the County of San Diego.

SIGNATURE & TITLE Thomas Harkness Foreman

PRINT NAME THOMAS HARKNESS

TELEPHONE (619) 478 9390 562 3152 DATE 8-22-90

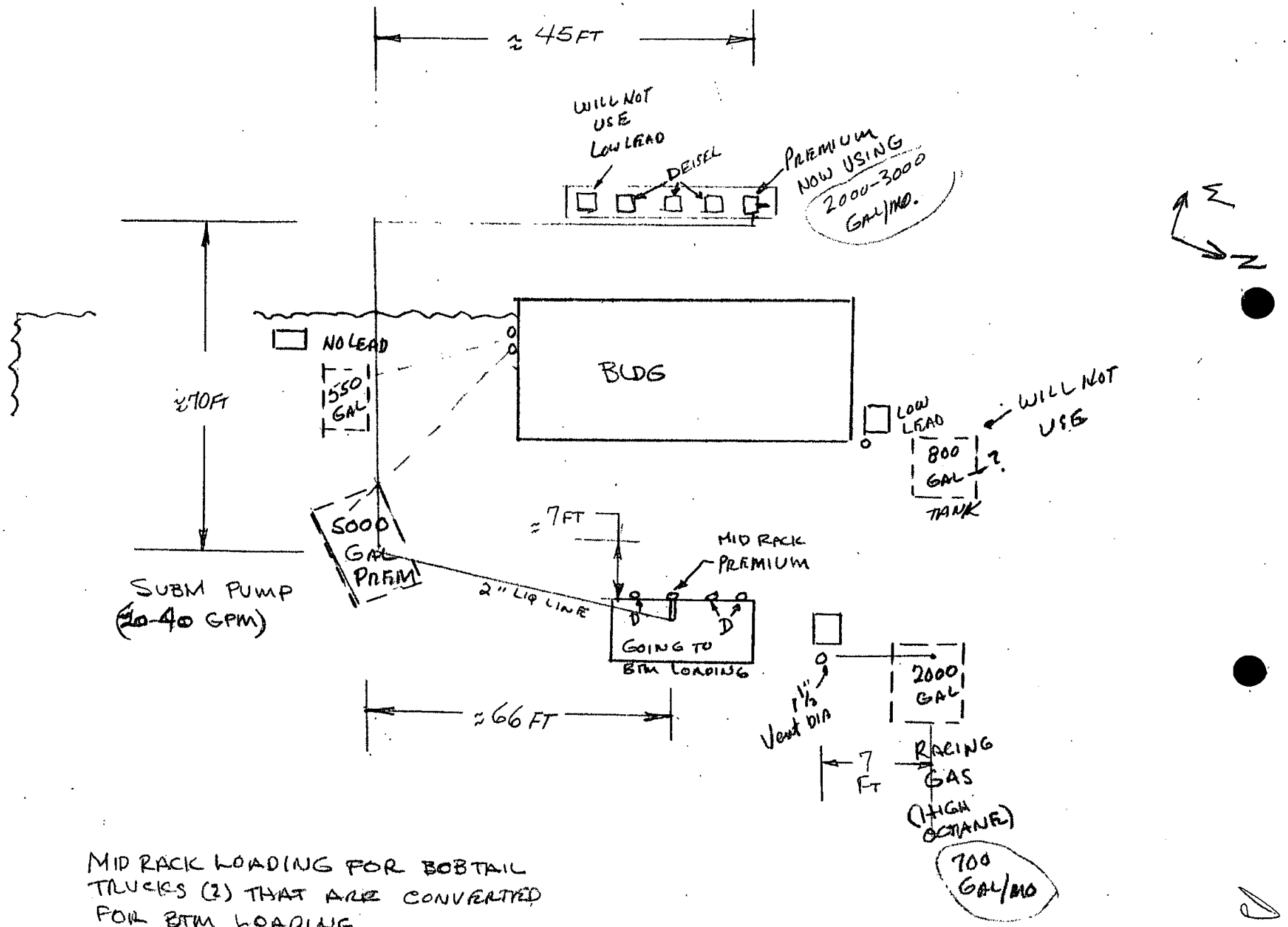

⊙ - MONITOR WELLS
○ - ABOVE GROUND TANKS
⊂⊃ - BELOW GROUND TANKS
EnecoTech
San Diego, California
BUY WRIGHT OIL
Project:
11427 WOODSIDE AVE. SANTEE, CALIFORNIA
File No.: 185-001
Date: 3/90
ODSIDE AVENUE
PUMP ISLAND
GATE
TOOLS
PROPANE
PROPERTY BOUNDARY
Trailer Office
BUILDING
TBA STORAGE
WASTE OIL
T-18
7500
UNLEADED
T-19
EXTRA
GATE
SOLVENT
T-17
T-16
T-15
SOLV.
T-14
EMPTY
CONCRETE PAD W/
OIL DRUM STORAGE
4000
T-11
CAL. GOLD
T-12
T-13
N
Empty Drum Storage
DIESEL
T-7
T-8
T-9
T-10
OIL DRUM
STORAGE
T-1
T-2
T-5
T-3
T-4
T-6
BULK OIL
MAP NOT TO SCALE
PROPERTY BOUNDARY
PRODUCT L
VAPOR LINES
TO BE RU
SMITH FLEX
WITH 1/8" PER
MIN. FALL



SPECS:
EMCO WHEATON BALANCE - COAX
300S NOZZLE
SLOPE: > 1/4" per Foot.

BUY WRIGHT OIL CO
11427 WOODSIDE AVE
SANTEE, CA

WOODSIDE



MID RACK LOADING FOR BOBTAIL TRUCKS (2) THAT ARE CONVERTED FOR BTM LOADING

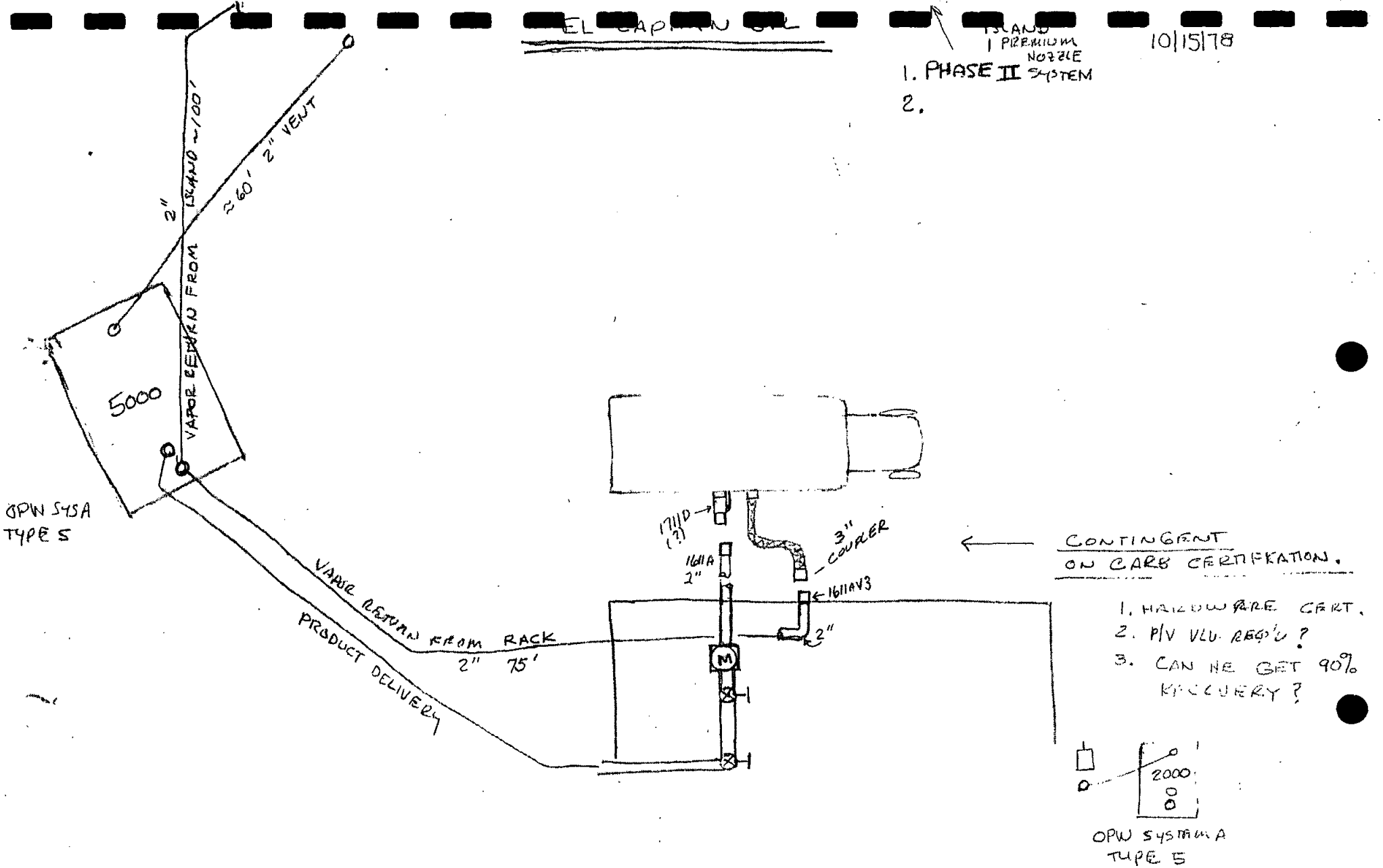
12D

EL CAPITAN CAL

ISLAND 1 PREMIUM NOZZLE

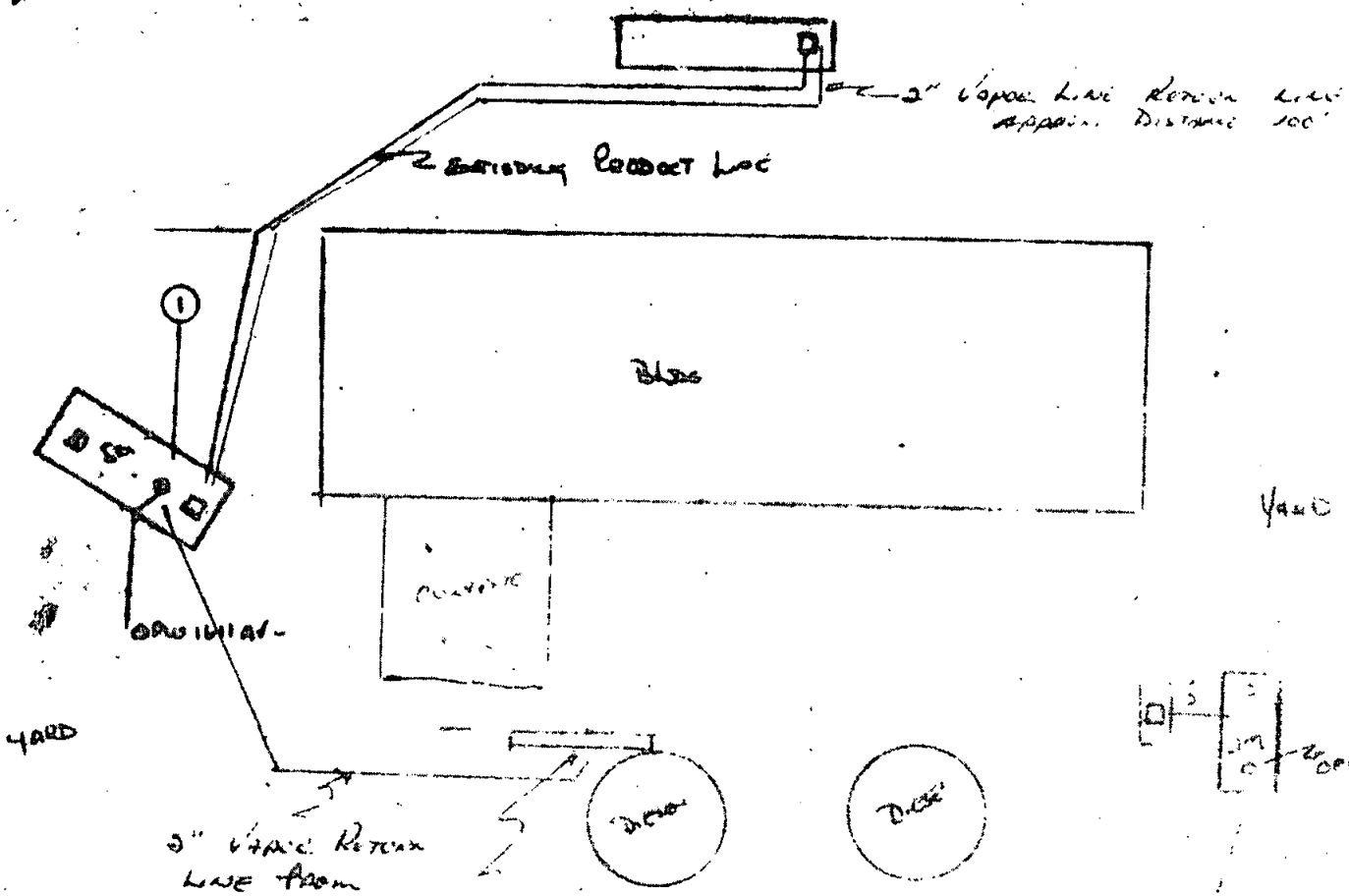
10/15/78

1. PHASE II SYSTEM
2.



A

1/0


2" Vapor Line Return Line
Approx. Distance 100'
2 Gasoline Product Line
1
Bldg
Canopy
Dispenser
4 yard
Dispenser
Dispenser
3" Vapor Return Line from Truck to Underground Tank (Compound 7)
Tank Pit, Loading (Bottom) See Attached Drawing
4 yard
Yard
2

A13

COUNTY OF SAN DIEGO

AIR POLLUTION CONTROL DISTRICT

EQUIPMENT LIST

DATE: 6-12-80

PAGE 1 OF 1

DBA: El Capitan Oil Company

Ownership: Bob Sinclair & Rod Means

Sector & ID No. J

Map Coord: X

Map Coord: Y

Equipment Address: 11427 Woodside Ave., Lakeside ZIP CODE: 92040

Mailing Address: P.O. Box 456, Lakeside ZIP CODE: 92040

Date at this location: Since 1970

☒ Corp. ☒ Partnership ☐ Individual ☐ Govt. Agency ☐ Public Dist.

Contact: Bob Sinclair Title: Pres. Phone: 448-5891

Nature of Business: Small Bulk Plant

Operating Hours: 0800 - 1800

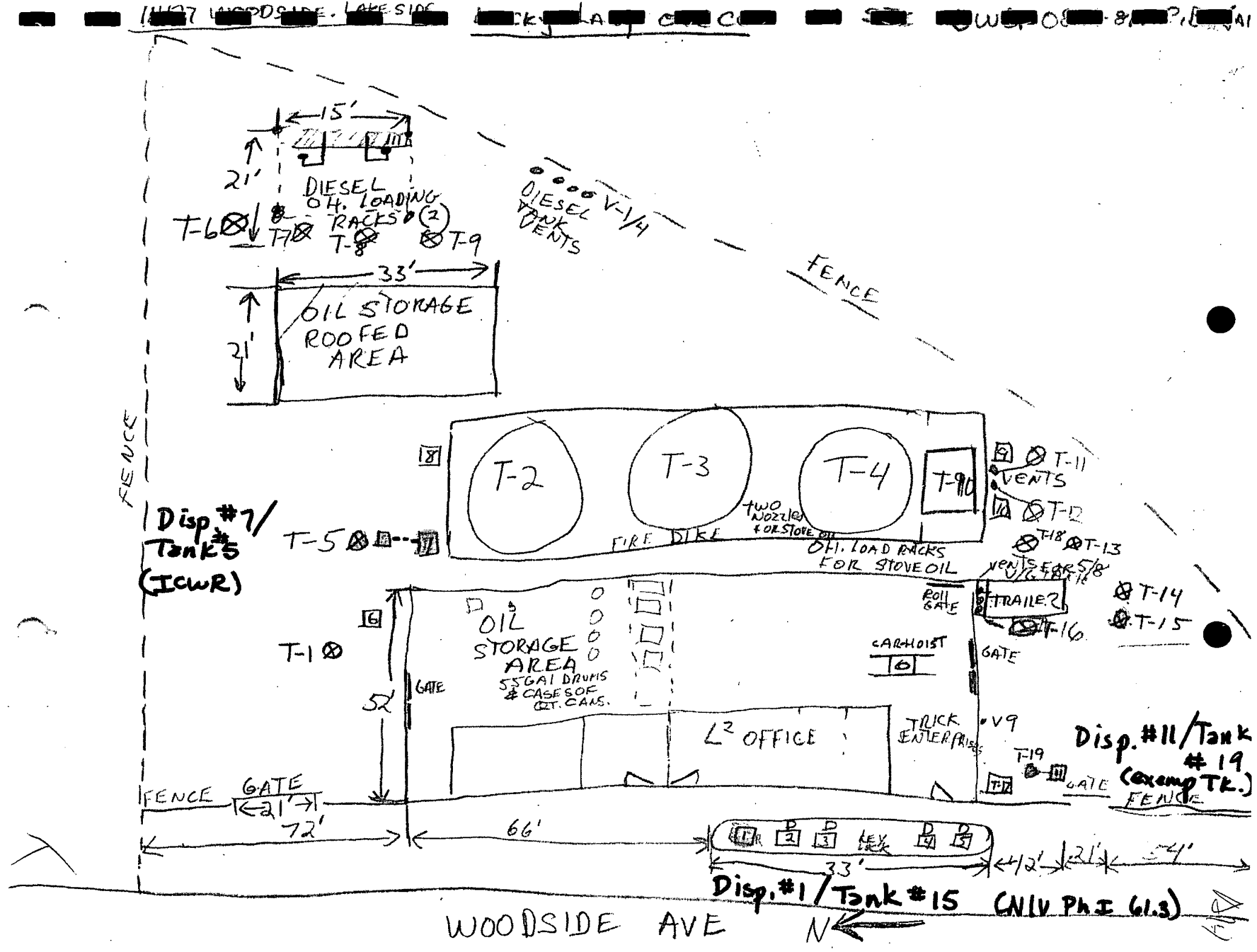
Days Per Week: 5

Item	No.	Equipment Description: name, make, model, serial number, size, type, company number, pollution controls, etc.	Status
1	1	7,500 gal. u/g storage tank for Premium gasoline 1 pump 1 nozzle; Emco-Wheaton Phase II; max. 4,000 gal/mo.	
2	1	550 gal. u/g tank for Unleaded, 1 nozzle max. 300 gal/mo	
3	1	2,000 gal. u/g storage tank for racing fuel, 1 pump 1 nozzle, Emco-Wheaton Phase II; 500 gal/mo max.	
4	4	6,000 gal. u/g storage tank for Diesel fuel	11-1-
5	1	7,500 gal. u/g storage tank for Diesel fuel	11-1-
6	1	2,500 gal. u/g storage tank for used oil	11-1-
7	1	1,000 gal. u/g storage tank for Kerosene	11-1-

Type Inspection: Annual

Inspected By: [illegible]

APCD 33 (REV 04/78)


15'
21'
DIESEL OIL LOADING RACKS (2)
T-6
T-7
T-8
T-9
DIESEL TANK VENTS
V-1/4
FENCE
33'
21'
OIL STORAGE ROOFED AREA
FENCE
T-2
T-3
T-4
T-10
T-11 VENTS
T-12
T-18
T-13
VENTS FOR 5/8
T-14
T-15
T-16
TWO NOZZLES FOR STOVE OIL
FIRE DIKE
OIL LOAD RACKS FOR STOVE OIL
Disp #7/ Tank #5 (ICWR)
T-5
T-1
OIL STORAGE AREA 55 GAL DRUMS & CASES OF QT. CANS.
52'
GATE
ROLL GATE
TRAILER
CAR HOIST
GATE
L² OFFICE
TRUCK ENTERPRISES
V9
T-19
GATE
Disp. #11/Tank #19 (exempt Tk.)
FENCE
FENCE
GATE
21'
72'
66'
33'
4 1/2'
21'
Disp. #1/Tank #15 (NLV Ph I 61.3)
WOODSIDE AVE
N

LEGEND

DISPENSERS

- ☒-1 = DISPENSER 1 REGULAR GASOLINE
- ☐-2 THRU 5 - DISPENSER 2-5 ; DIESEL FUEL
- ☐-6 KEROSENE
- ☒-7 DISP#7 TRICK GAS
- ☐-8 DISP#8 DISCONNECTED (NOT ATTACHED TO ANYTHING)
- ☐-9 DISP#9 WEEDOIL
- ☐-10 DISP#10 SOLUENT
- ☒-11 DISP#11 UNLEADED SUPREME.

TANKS

- ⊗ T-1 A/G KEROSENE ; 550 GALLONS ; SERVES DISPENSER #6
- ○ T-2 A/G DIESEL #2 ; 6700 GALLONS SERVES DISP-2-5
- ○ T-3 A/G STOVE OIL ; 3400 GALLONS HAVE OVERHEAD LOADING RACK + 1 NOZZLE
- ○ T-4 A/G STOVE OIL ; 6700 GALLONS ↓ ↓
- ⊗ T-5 U/G TRICK GAS ; 2000 GAL ; SERVES DISP #7
- ⊗ T-6 U/G DIESEL #2 ; 6,000 GAL ; SERVE OH. LOADING RACKS
- ⊗ T-7 U/G ✓ ; ✓ ; MANIFOLDED 2 & 2
- ⊗ T-8 U/G ✓ ; ✓ ; ✓ ✓
- ⊗ T-9 U/G ✓ ; ✓ ; ✓ ✓
- ☐ T-10 A/G CLEANING SOLVENT ; 500 GAL ; HAS OWN HOSE, NOZZLE
- ⊗ T-11 U/G WEED OIL ; [illegible] ; Serves Disp #9
- ⊗ T-12 U/G SOLVENT ; [illegible] ; Serves Disp #10

VENTS

- V 1/4 Vents for Diesel OH Rack Tanks. 2" I.D X ≥ 12' ok
- V 5/8 VENTS for TANKS 13/14/15
- V [illegible] Vent for tank # 12? 11" dia X 5' ABOVE GROUND

TANKS CTD

- ⊗ T-13 U/G 7500 GAL ; DIESEL MANIFOLDED W TANK #2
- ⊗ T-14 U/G 5000 GAL ; NOT USED & LEAKS.
- ⊗ T-15 U/G 7500 GAL ; REGULAR GASOLINE SERVES DISP #1 NO DRY BREAK

? ⊗ T-16 U/G UNKNOWN USE, NOT BEING USED, STEPS TO TRAILER COVER PIT LID.

? T-17 A/G 1500 GAL ; KEROSENE, SOLVENT & OIL 3 COMPART. 500 GAL EACH

? ⊗ T-18 U/G 500 GAL WASTE OIL TANK

- ⊗ T-19 U/G 550 GAL ; UNLEADED GASOLINE, SERVES DISP #11

[redacted] Petroleum
11427 Woodside Ave
Santee Ca 92071
619-448-5891

A12

Woodside Ave

N

REPLACING SINGLE DISPENSER WITH DUAL

Regular Single Dispenser
WAYNE #733-1-G
A-3003 Emco Wheaton Nozzle
over-head retractor

30'

60'

OFFICE & WAREhouse

Submergible Pump
WAYNE #510-F
1/3 HP

Product Line

7500 Gallon
Regular-Lead

Fill

VAPOR

VENT

Volume: 10500 Per Mo

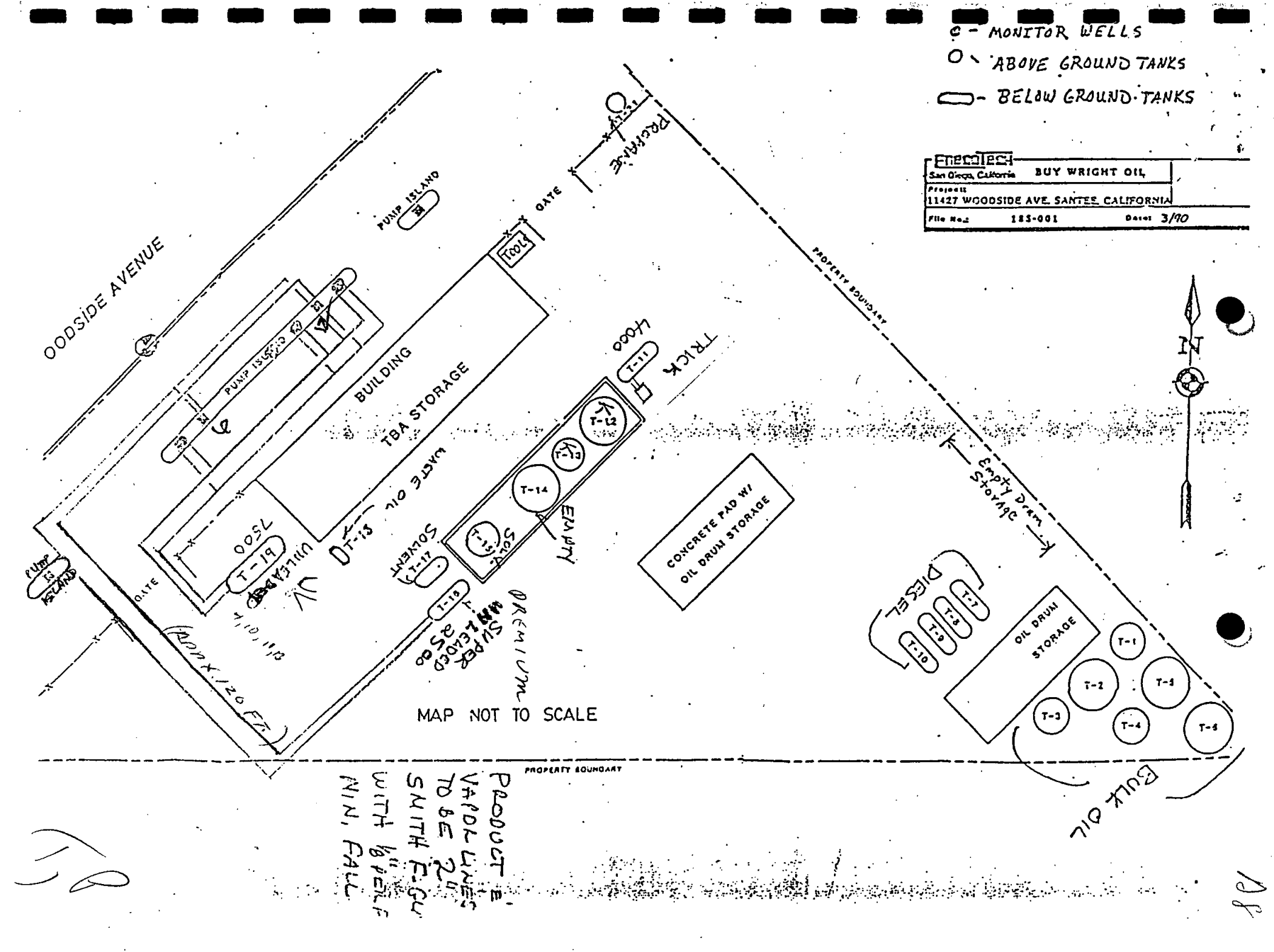
VAPOR BALANCED
Systems
gravity fed

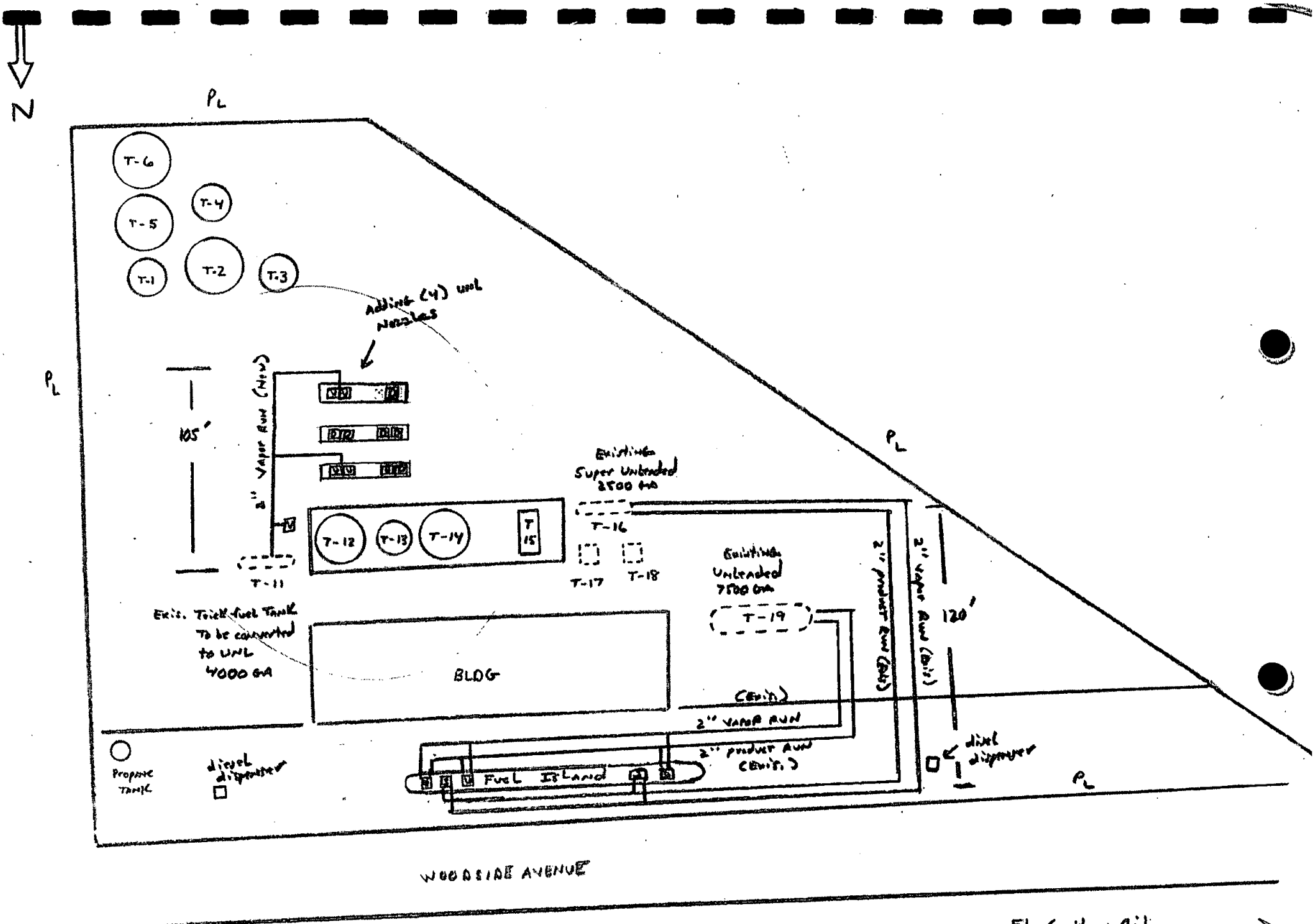
3'6"

VAPOR Line
NO-LEAD Regular
Suction Line
Fill
VENT
2000 UG
Volume: 2650 Per Mo.

Bennett # 3366
Suction Pump
Nozzle: A-3003
Emc Wheaton
over-head retractor

8/29/85
G. STEPHEN HENDRICK


⊙ - MONITOR WELLS
○ - ABOVE GROUND TANKS
⊂⊃ - BELOW GROUND TANKS
Enecotech
San Diego, California
BUY WRIGHT OIL
Project
11427 WOODSIDE AVE. SANTEE, CALIFORNIA
File No.: 185-001
Date: 3/90
OODSIDE AVENUE
PUMP ISLAND
GATE
TOOLS
PROPERTY BOUNDARY
BUILDING
TBA STORAGE
WASTE OIL
T-13
T-14
T-15
T-16
T-17
T-18
T-19
T-11
T-12
7500
SOLVENT
EMPTY
TRUCK
CONCRETE PAD W/ OIL DRUM STORAGE
EMPTY DRUM STORAGE
DIESEL
T-7
T-8
T-9
T-10
OIL DRUM STORAGE
T-1
T-2
T-3
T-4
T-5
T-6
USED OIL
PREMIUM
SUPER UNLEADED
UNLEADED
PUMP ISLAND
GATE
APPROX. 120 FT.
MAP NOT TO SCALE
PROPERTY BOUNDARY
PRODUCT & VAPOR LINES TO BE 2" SCH 40 PVC WITH MIN. FALL
N



- Site MAP -

EL Capitan Oil
11427 Woodside Ave
Santee CA 92071

PHASE II BALANCE SYSTEMS PRESSURE DROP DURING FLOW TEST & LIQUID BLOCKAGE TEST

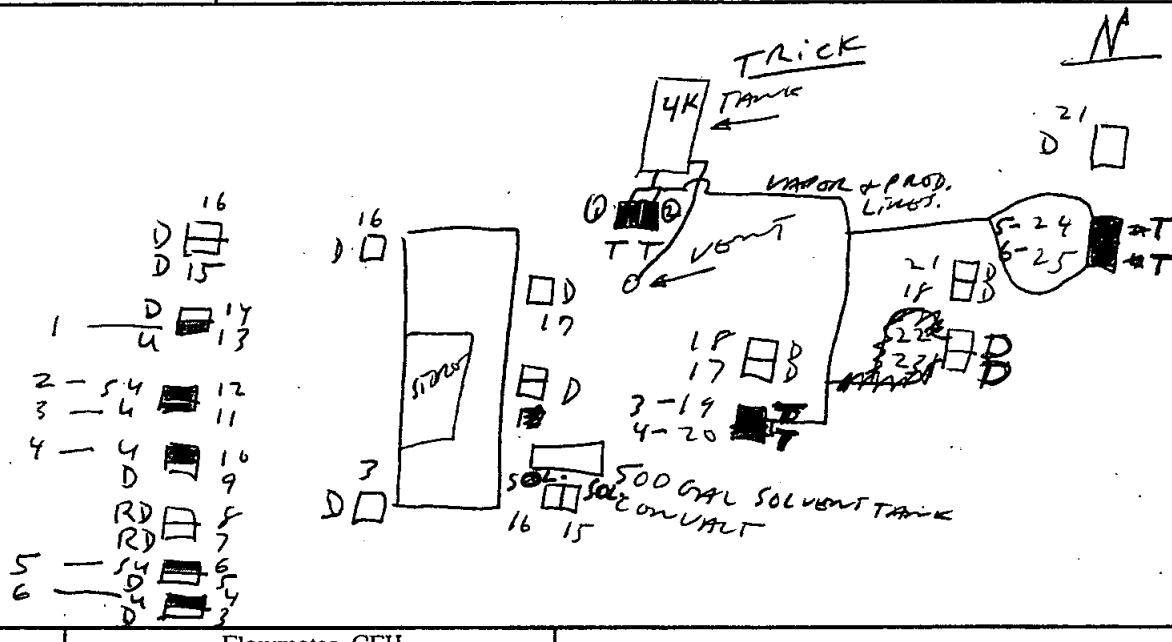
Site DBA: EL CAPITAN 0.2 — Test Date: 28 MAY 96

Address: 11427 WOODSIDE AVE — Test Contractor: VERDUGO

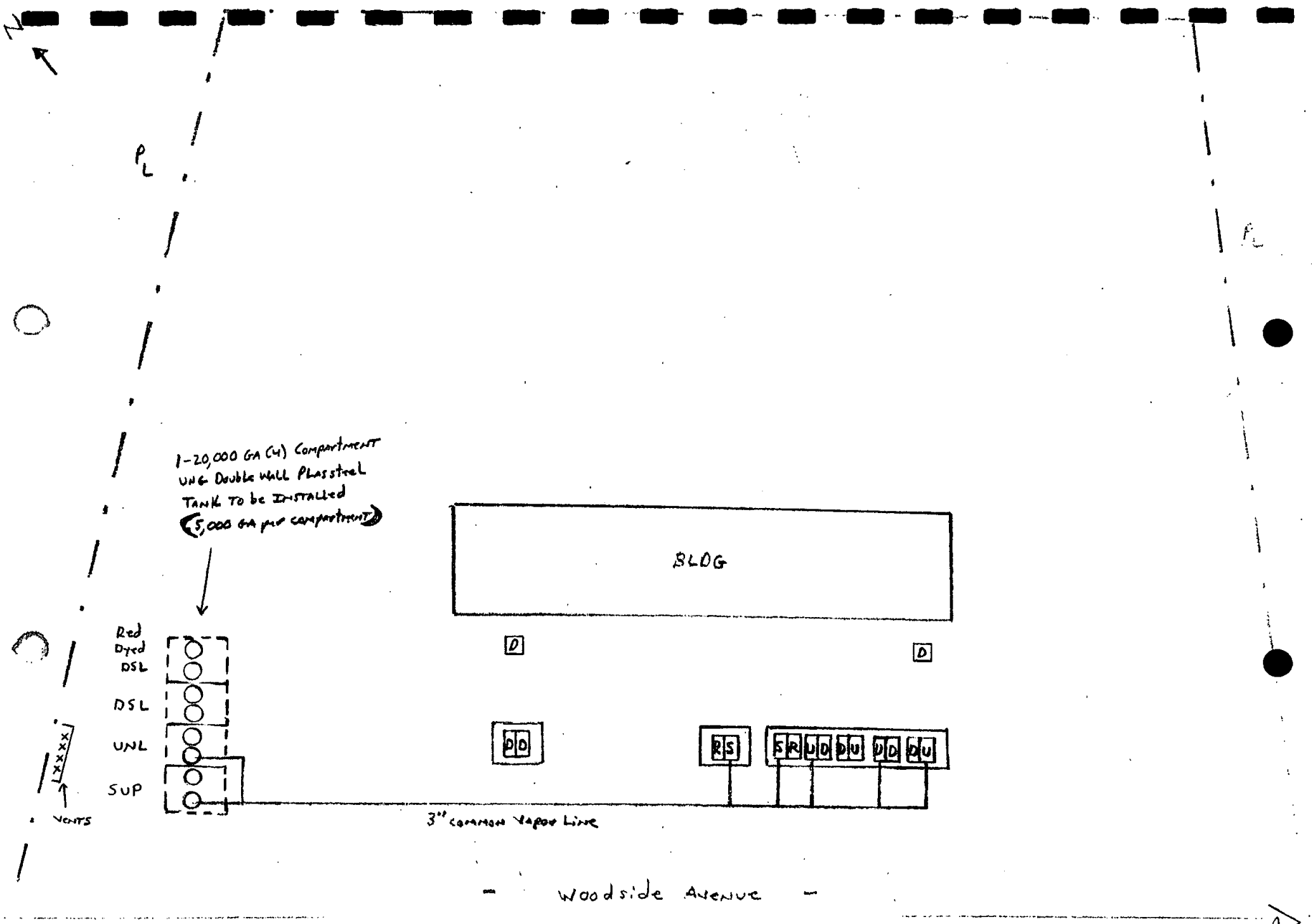
SANTEE, CA. 92071 — Test Conductor: FERNANDO

APCD Observer: RON — Office Phone No.:

Site Plan:



NOZ. NO.	PROD.	Flowmeter, CFH ΔP Test 20	ΔP Test 60	ΔP Test 100	WET TEST 60	COMMENTS
1	TRICK	.04	.21	.46	.21	
2	112	.04	.20	.48	—	
3 19		.02	.20	.40	.20	
4 20		.04	.20	.44	—	
5 25		.04	.20	.50	.20	
6 24		.04	.18	.40	—	
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						A-10'S



INSTALLATION

EL Capitan Oil

11427 Woodside Avenue

DATA CHART FOR TANK SYSTEM TIGHTNESS TEST

2C178

PETRO-TITE DATE: 8-18 & 8-19-86

OWNER: PROP. NAME: RAM OIL

TANKS XX ADDRESS: 11427 WOODSIDE AVE.
SANTEE, CA 92071 TELE: 619-448-5891

REASON FOR TEST: TO DETERMINE TIGHTNESS OF: UNDERGROUND ISOLATED TANKS
UNDERGROUND TANK/SYSTEMS ****

WHO REQUESTED TEST AND WHEN: NAME: JIM WIGINGTON

WHO IS PAYING FOR THIS TEST: NAME: RAM OIL

TANKS INVOLVED

	DIRECTION	CAPACITY	BRAND	GRADE	STEEL/FIBERGLASS
	#2	7,500		REGULAR	STEEL
SIPHONE\	#7	6,198		DIESEL	STEEL
SIPHONE/	#8	6,198		DIESEL	STEEL
SIPHONE\	#9	6,198		DIESEL	STEEL
SIPHONE/	#10	6,198		DIESEL	STEEL
	#5	2,510		SOLVENT	STEEL
	#6	2,015		UNLEADED	STEEL
	#4	550		KEROCINE	STEEL
	#1	550		RACING GAS	STEEL
	#3	550		WASTE OIL	STEEL

INSTALLATION DATA

LOCATION	COVER	FILLS	VENTS	SIPHONES	PUMPS
	CONCRETE A.C. PAVE DIRT	2" 4"	2" 1 1/2"	YES	REMOTE SUCTION

UNDERGROUND WATER: DEPTH OF WATER TABLE ____ IS WATER OVER TANK YES ____ NO X

FILL-UP ARRANGEMENTS: DATE TANKS TO BE FILLED 8-18 & 8-19-86 @ 7:00 A.M. ARRANGED BY: JIM WIGINGTON

TEST RESULTS

	TANK IDENTIFICATION	TIGHT	LEAKAGE INDICATED	DATE TESTED
	7,500 REGULAR	YES	+.040 GALS. PER HR.	8-18 & 8-19-86
SIPHONE\	6,198 DIESEL	YES	-.038 GALS. PER HR.	8-18 & 8-19-86
SIPHONE/	6,198 DIESEL	YES	-.038 GALS. PER HR.	8-18 & 8-19-86
SIPHONE\	6,198 DIESEL	YES	-.045 GALS. PER HR.	8-18 & 8-19-86
SIPHONE/	6,198 DIESEL	YES	-.045 GALS. PER HR.	8-18 & 8-19-86
	2,510 SOLVENT	YES	-.012 GALS. PER HR.	8-18 & 8-19-86
	2,015 UNLEADED	NO	-3.466 GALS. PER HR	8-18 & 8-19-86
	550 KEROCINE	YES	-.020 GALS. PER HR.	8-18 & 8-19-86
	550 RACING GAS	YES	-.039 GALS. PER HR.	8-18 & 8-19-86
	550 WASTE OIL	YES	-.032 GALS. PER HR.	8-18 & 8-19-86

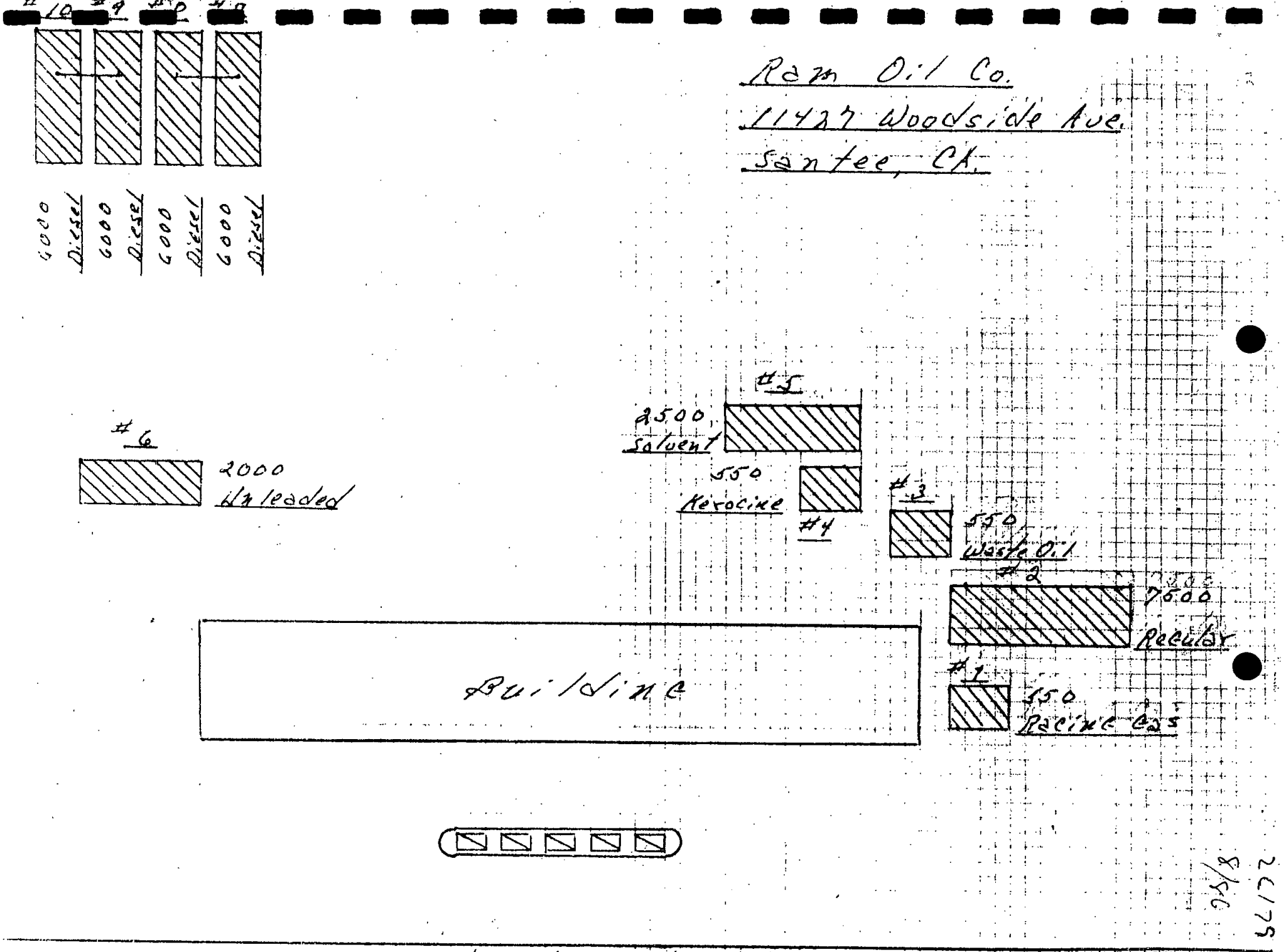
CERTIFICATION JULY 1985 VARIOUS serial no thermal sensor

THIS IS TO CERTIFY THAT THESE TANK SYSTEMS WERE TESTED ON THE DATE(S) SHOWN. THOSE INDICATED AS "TIGHT" MEET THE CRITERIA ESTABLISHED BY THE NATIONAL FIRE PROTECTION ASSOC. PAMPH. 329

DAVE PROCTOR
MIKE REYOME
DICK CUMMINGS
technicians

VOWCO INC.
1450 N. EL CAMINO REAL #C
SAN CLEMENTE, CA 92672

serial # 414810788


#10
#9
#8
#7
6000 Diesel
6000 Diesel
6000 Diesel
6000 Diesel
Ram Oil Co.
11437 Woodside Ave.
Santee, CA.
#5
2500 Solvent
#6
2000 Unleaded
550 Kerosine
#4
#3
550 Waste Oil
#2
7500 Regular
#1
550 Racing Gas
Building
Woodside Avenue
8/78
2773

File received Cyn please input H19469 92071 MAY 10 5/89

AINLAY TANK 'TEGRITY TESTER™ FIELD TEST DATA

1 TANK OPERATOR

NAME: BUY WRIGHT OIL — ADDRESS: 11425 WOODSIDE, SANTEE, CA — PHONE: (619) 449-5148 — ATTN: GREG BARNICLE

2 TANKS TO BE TESTED

IDENTIFICATION	CAPACITY—GALS.	MANUFACTURER	STEEL/FIBRGLS.	AGE—YRS.
#1 GOLD	4000 7	DOOR	STEEL	UNKNOWN
#2 REGULAR	2500 12	"	"	"
#3 SOLVENT	550 11	"	"	"
#4 UNLEADED	7500 5	"	"	"
#5 & #6 DIESEL	6000 EACH	"	"	"

3 WATER TABLE

DISTANCE FROM GRADE TO WATER UNKNOWN FT.

4 TANK FILL-UP

TANK WILL BE FILLED 1600 (TIME) ON 5/6/89
EXTRA 5 GALS PRODUCT AVAILABLE FROM CUSTOMER
FILL UP TO BE ARRANGED BY MR. GREG BARNICLE PHONE (619) 449-5140
CONTACT AT STORAGE TERMINAL IS MR. ____ PHONE ( )

5 OUTSIDE CONTRACTORS

NAME — ADDRESS — PHONE
NONE

6 OFFICIALS TO BE CONTACTED

NAME — AUTHORITY — PHONE
NONE

7 SPECIAL NOTES OR PRECAUTIONS

TESTS CONDUCTED AS "TANK SYSTEM TEST
#5 & #6 DIESEL TANKS ARE MANIFOLDED TOGETHER AND WERE TESTED AS A "MANIFOLDED SYSTEM".

8 TEST RESULTS

ALL TESTS WERE PERFORMED IN ACCORDANCE WITH PROCEDURES DESCRIBED IN SOILTEST'S INSTRUCTION BOOK. CRITERIA FOR TIGHTNESS IS ESTABLISHED BY NATIONAL FIRE PROTECTION ASSOCIATION BULLETIN. N.F.P.A. 329.

TANK IDENT	TANK IS TIGHT	TANK IS NOT TIGHT	LEAK RATE G. P. H.	TEST DATE
#1 GOLD	✓		-.021	5-7-89
#2 REGULAR	✓		+.044	5-7-89
#3 SOLVENT	✓		-.003	5-7-89
#4 UNLEADED	✓		+.017	5-7-89
#5 & #6 DIESEL (MANIFOLDED)	✓		-.024	5-7-89

9 CERTIFICATION

THIS CERTIFIES THAT THE TANKS DESCRIBED WERE TESTED BY THE UNDERSIGNED AND THAT THE STATED RESULTS REPRESENT THE TRUE STATE OF THE TANKS ON THIS DATE TO THE BEST OF MY KNOWLEDGE.

SIGNED Karl Montijo — CERTIFICATE NO. 1104 — ISSUE DATE 7-9-87

FOR (TEST COMPANY) MONTIJO ENVIRONMENTAL CO.
ADDRESS P. O. BOX 83
POWAY, CA 92064
(619) 487-4303
ZIP

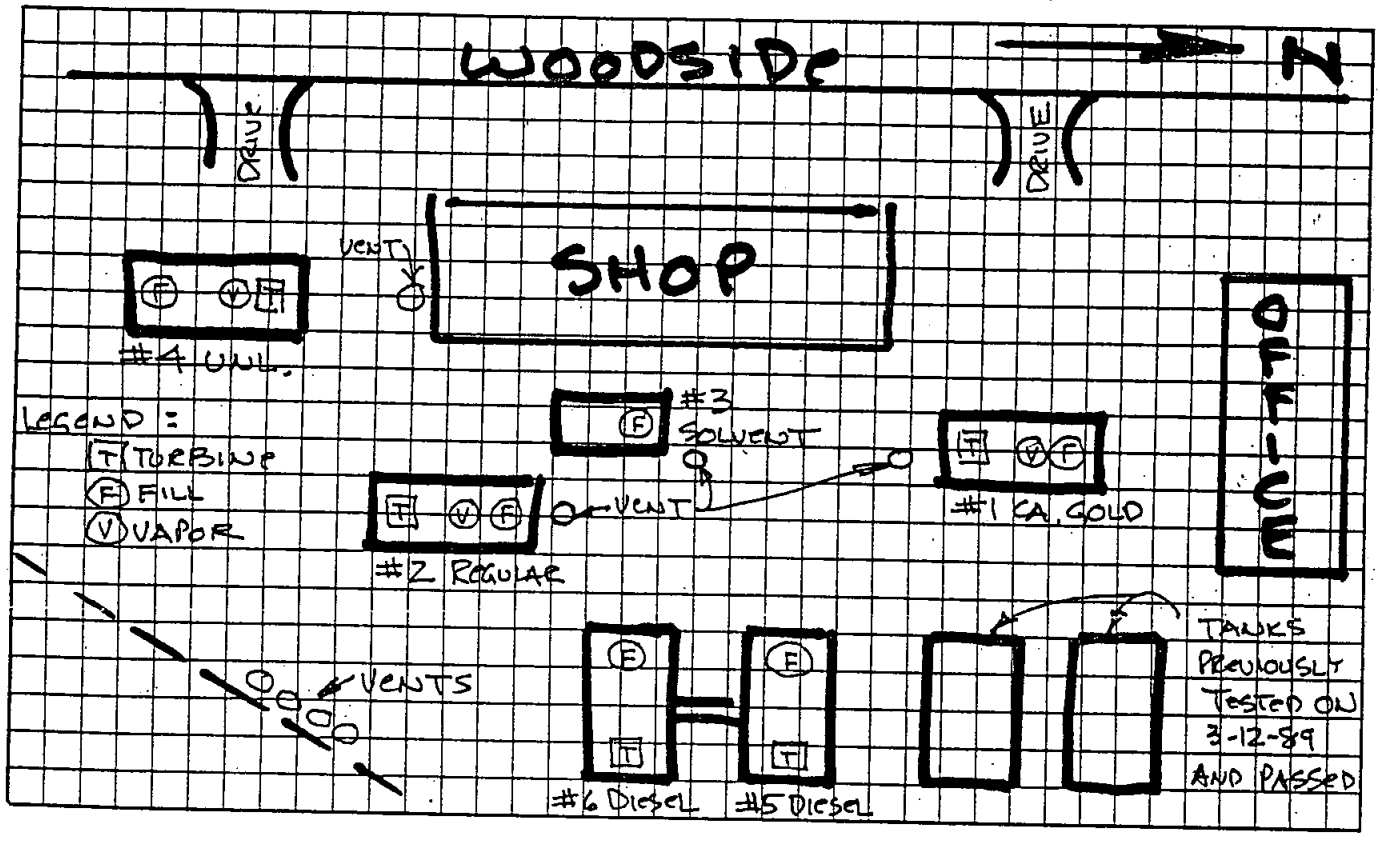
ST-6 (REV. 2/87)

TEST SITE LAYOUT

5/89

2 0172

22

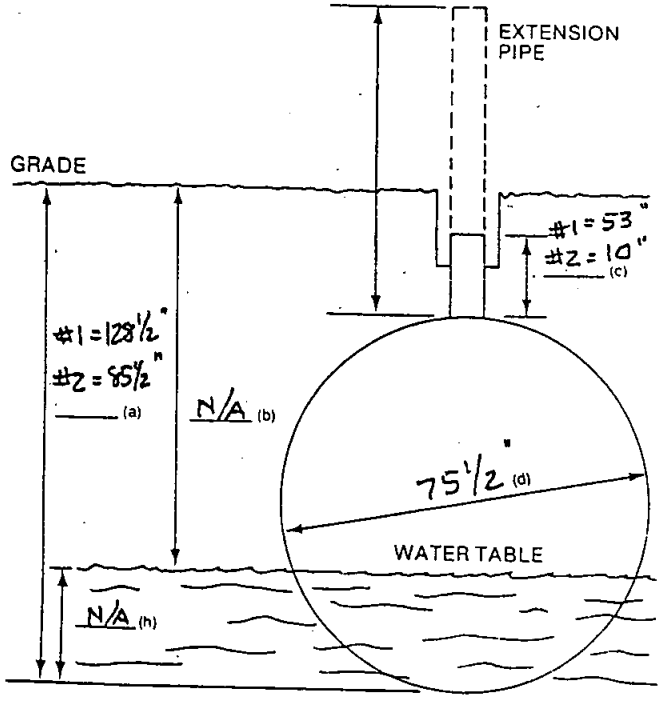


TEST COMPANY Montijo Environmental

STE T

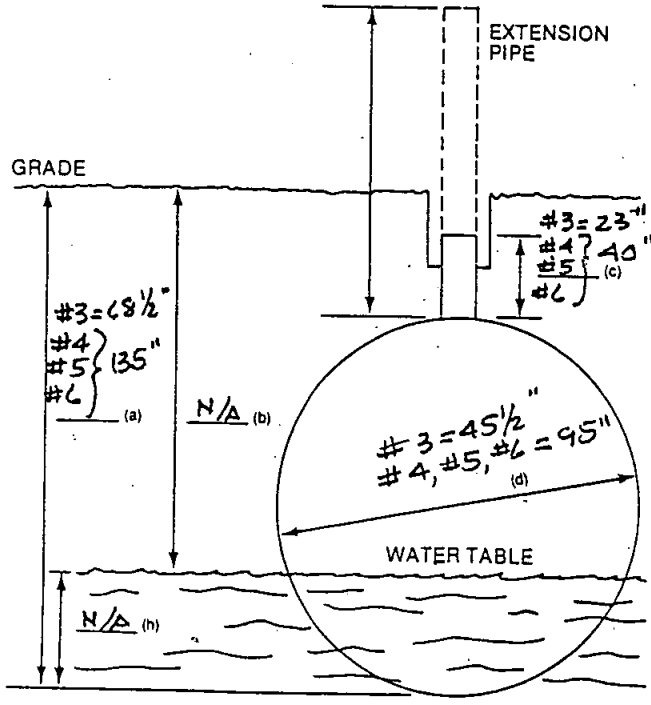
23

TEST 1: TANK DIMENSIONS



TANK IDENT. #1 CALIF. GOLD
#2 REGULAR

TEST 2: TANK DIMENSIONS



TANK IDENT. #3 SOLVENT / #4 UNLEAD
#5 & #6 Diesel

JOB Buy Wright Oil
ADDRESS 142 Woodside, Santee, CA

TANK INTEGRITY TEST REPORT

HAZARDOUS MATERIALS MANAGEMENT DIVISION

2C 161

KJC

☑ All of the tanks and associated piping have tested tight

☐ Some of the tanks and associated piping have failed tightness test

OFFICE USE ONLY
Est. # H 19409
Date Rec 2/21/92
Tester on file y/n

Reason for Tank System Testing: X Annual Test ___ Suspected Leak ___ Retest After Repair
Other Reason for Tank Testing ___

TANK LOCATION	ADDRESS 11429 WOODSIDE	
	CITY SANTEE CA.	ZIP 92071
TANK OPERATOR	NAME EL CAPITAN OIL	PHONE 258-7113
TANK OWNER	NAME JIM WIGINGTON	PHONE 258-7113
	ADDRESS SAME	
	CITY	ZIP

TANK NO.	TANK CAPACITY	PRODUCT LINE PASS/FAIL	FILL/VENT VAPOR PASS/FAIL	TANK GAL/HOUR	TANK PASS/FAIL	TEST DATE
#13	AK-TRKK	N/A	PASS	+.001	PASS	1-10-92
#11	2500 · REG GAS	-.004 GPH PASS	PASS	-.049	PASS	1-10-92
#12	550 · SOLVENT	N/A	PASS	+.021	PASS	1-10-92
#5	7500 - SUPER	1 000 GPH PASS	PASS	-.018	PASS	1-10-92
#10	550 WASTE	N/A	PASS	+.041	PASS	1-10-92

If the water table is above the bottom of the UST, the test procedure compensating for its presence must be used. Compensating Procedure ___ N/A X

Method of Product Line Test PETRO TITE LINE TESTER

Method of Vent/Vapor/Remote Fill Line Test OVERFILL TANK SYSTEM TEST

Indicate Which (if any) Tanks are Manifolded NONE

These test results have been conducted and performed, by a tester certified according to the requirements of tank test equipment manufacturer. The tester is licensed by the Water Resources Control Board Office of Tester Licensing and meets the requirements of Subchapter 17, Title 23, of the CA Code of regulations (effective January 1, 1990). The tank owner has been notified of these results, and has been advised of the reporting requirements for integrity testing. This UST tightness test is approved by the State Water Resources Control Board(SWRCB) and third party verification, and meets its applicable limitations.

Testing company MONTIJO ENVIRONMENTAL CO

Name of Test Equipment AINLAY TEGRITY TESTER (S-3)

Name of Licensed Tester BOB MONTIJO License No. 91-1138

Signature of tester Bob Montijo Date 1/10/92

2C162

TANK INTEGRITY TEST REPORT

HAZARDOUS MATERIALS MANAGEMENT DIVISION

☒ All of the tanks and associated piping have tested tight

☐ Some of the tanks and associated piping have failed tightness test

OFFICE USE ONLY
Est. # H 19469
Date Rec / /
Tester on file y/n

Reason for Tank System Testing: X Annual Test ___ Suspected Leak ___ Retest After Repair
Other Reason for Tank Testing ___

TANK LOCATION	ADDRESS 11429 WOODSIDE		
	CITY SANTEE CA		ZIP 92071
TANK OPERATOR	NAME EL CAPITAN OIL		PHONE 258 7113
TANK OWNER	NAME JIM WIGINGTON		PHONE 258 7113
	ADDRESS SAME		
	CITY		ZIP

TANK NO.	TANK CAPACITY	PRODUCT LINE PASS/FAIL	FILL/VENT VAPOR PASS/FAIL	TANK GAL/HOUR	TANK PASS/FAIL	TEST DATE
8	6K DIESEL	N/A	PASS	+.009	PASS	1-9-92
9	6K DIESEL	+.000 GPH PASS	PASS	+.050	PASS	1-9-92
10	6K DIESEL	+.000 GPH PASS	PASS	+.050	PASS	1-9-92
4						
5						

the water table is above the bottom of the UST, the test procedure compensating for its presence ust be used. Compensating Procedure ___ N/A X

thod of Product Line Test PETRO TITE LINE TESTER

ethod of Vent/Vapor/Remote Fill Line Test OVERFILL TANK TEST

icate Which (if any) Tanks are Manifolded # 9 & #10 DIESEL

ese test results have been conducted and performed, by a tester certified according to the requirements of e tank test equipment manufacturer. The tester is licensed by the Water Resources Control Board Office of Tester Licensing and meets the requirements of Subchapter 17, Title 23, of the CA Code of regulations ective January 1, 1990). The tank owner has been notified of these results, and has been advised of the porting requirements for integrity testing. This UST tightness test is approved by the State Water sources Control Board(SWRCB) and third party verification, and meets its applicable limitations.

ng company MONTIJO ENVIRONMENTAL CO

me of Test Equipment ANLAY TEGRITY TESTER (S-3)

e of Licensed Tester BOB MONTIJO License No. 91-1138

ature of tester Bob Montijo Date 1/ /92

SOILTEST

2C163
H194109

AINLAY TANK 'TEGRITY TESTER™ FIELD TEST DATA

TANK OPERATOR

NAME / ADDRESS / PHONE

EL CAPITAN OIL — PHONE 619 258-7113
11429 WOODSIDE — ATTN JIM WIGINGTON
SANTEE, CA

TANKS TO BE TESTED

IDENTIFICATION	CAPACITY—GALS.	MANUFACTURER	STEEL/FIBRGLS.	AGE—YRS.
#1 TRICK	4K	UNKNOWN	STEEL	UNKNOWN
#5 WASTE	550	"	"	"
#8 DIESEL	6K	"	"	"
#9 DIESEL	6K	"	"	"
#10 DIESEL	6K	"	"	"

WATER TABLE

DISTANCE FROM GRADE TO WATER UNKNOWN ~~INS.~~

TANK FILL-UP

TANK WILL BE FILLED 2000 (TIME) ON 1/9/92
EXTRA 5 GALS PRODUCT AVAILABLE FROM CUSTOMER
FILL UP TO BE ARRANGED BY MR. JIM WIGINGTON PHONE (619) 258-7113
CONTACT AT STORAGE TERMINAL IS MR. _____ PHONE ( )

OUTSIDE CONTRACTORS

NAME / ADDRESS / PHONE

NONE

OFFICIALS TO BE CONTACTED

NAME / AUTHORITY / PHONE

SAN DIEGO HEALTH DEPT. (HMMD) TO BE SENT COPY OF TEST REPORT

SPECIAL NOTES OR RECAUTIONS

TEST CONDUCTED AS OVERFILL TANK SYSTEM
TEST #5 8, 9 & 10 HAD PRODUCT LINES ISOLATED & TESTED AT 50 PSI

TEST RESULTS

ALL TESTS WERE PERFORMED IN ACCORDANCE WITH PROCEDURES DESCRIBED IN SOILTEST'S INSTRUCTION BOOK. CRITERIA FOR TIGHTNESS IS ESTABLISHED BY NATIONAL FIRE PROTECTION ASSOCIATION BULLETIN. N.F.P.A. 329.

TANK IDENT	TANK IS TIGHT	TANK IS NOT TIGHT	LEAK RATE G. P. H.	TEST DATE
#1 TRICK - 4K	✓		+.001	1-10-92
#5 WASTE - 550 GAL	✓		+.041	1-10-92
#8 DIESEL 6K	✓		+.009	1-10-92
#9 DIESEL 6K	✓		+.050	1-10-92
#10 DIESEL 6K	✓		+.050	1-10-92

CERTIFICATION

THIS CERTIFIES THAT THE TANKS DESCRIBED WERE TESTED BY THE UNDERSIGNED AND THAT THE STATED RESULTS REPRESENT THE TRUE STATE OF THE TANKS ON THIS DATE TO THE BEST OF MY KNOWLEDGE.

SIGNED Rod Montijo

FOR (TEST COMPANY) MONTIJO ENVIRONMENTAL CO.
ADDRESS P. O. BOX 83
POWAY, CA 92064
(619) 487-4303

TEST TECHNICAN:
BOB MONTIJO
LICENSE # 91-1130

SOILTEST

2 c 1 69
H 19469

AINLAY TANK 'TEGRITY TESTER™ FIELD TEST DATA

TANK OPERATOR

NAME / ADDRESS / PHONE

EL CAPITAN OIL — PHONE 619 258-7113
11429 WOODSIDE — ATTN JIM WIGINGTON
SANTEE, CA.

TANKS TO BE TESTED

IDENTIFICATION	CAPACITY—GALS.	MANUFACTURER	STEEL/FIBRGLS.	AGE—YRS.
#2-REG UNL	2500	UNKNOWN	STEEL	UNKNOWN
#3-SOLVENT	550	"	"	"
#4-SUPER UNL	7500	"	"	"

WATER TABLE

DISTANCE FROM GRADE TO WATER UNKNOWN ~~INS.~~

TANK FILL-UP

TANK WILL BE FILLED 2000 (TIME) ON 1/8/92
EXTRA 5 GALS PRODUCT AVAILABLE FROM CUSTOMER
FILL UP TO BE ARRANGED BY MR. JIM WIGINGTON PHONE (619) 258-7113
CONTACT AT STORAGE TERMINAL IS MR. _____ PHONE ( )

OUTSIDE CONTRACTORS

NAME / ADDRESS / PHONE

NONE

OFFICIALS TO BE CONTACTED

NAME / AUTHORITY / PHONE

SAN DIEGO HEALTH DEPT (HMMD) TO BE SENT COPY OF TEST REPORT

SPECIAL NOTES OR RECAUTIONS

TEST CONDUCTED AS OVERFILL SYSTEM TEST TANKS #2 & #4 HAD PRODUCT LINES ISOLATED AND TESTED AT 50 PSI

TEST RESULTS

ALL TESTS WERE PERFORMED IN ACCORDANCE WITH PROCEDURES DESCRIBED IN SOILTEST'S INSTRUCTION BOOK. CRITERIA FOR TIGHTNESS IS ESTABLISHED BY NATIONAL FIRE PROTECTION ASSOCIATION BULLETIN. N.F.P.A. 329.

TANK IDENT	TANK IS TIGHT	TANK IS NOT TIGHT	LEAK RATE G. P. H.	TEST DATE
#2 REGULAR UNLEADED	✓		-.049	1-9-92
#3 SOLVENT	✓		+.021	1-9-92
#4 SUPER UNLEADED	✓		-.018	1-9-92

CERTIFICATION

THIS CERTIFIES THAT THE TANKS DESCRIBED WERE TESTED BY THE UNDERSIGNED AND THAT THE STATED RESULTS REPRESENT THE TRUE STATE OF THE TANKS ON THIS DATE TO THE BEST OF MY KNOWLEDGE.

SIGNED Rod Montijo

FOR (TEST COMPANY) MONTIJO ENVIRONMENTAL CO.
ADDRESS P. O. BOX 83
POWAY, CA 92064
(619) 487-4303

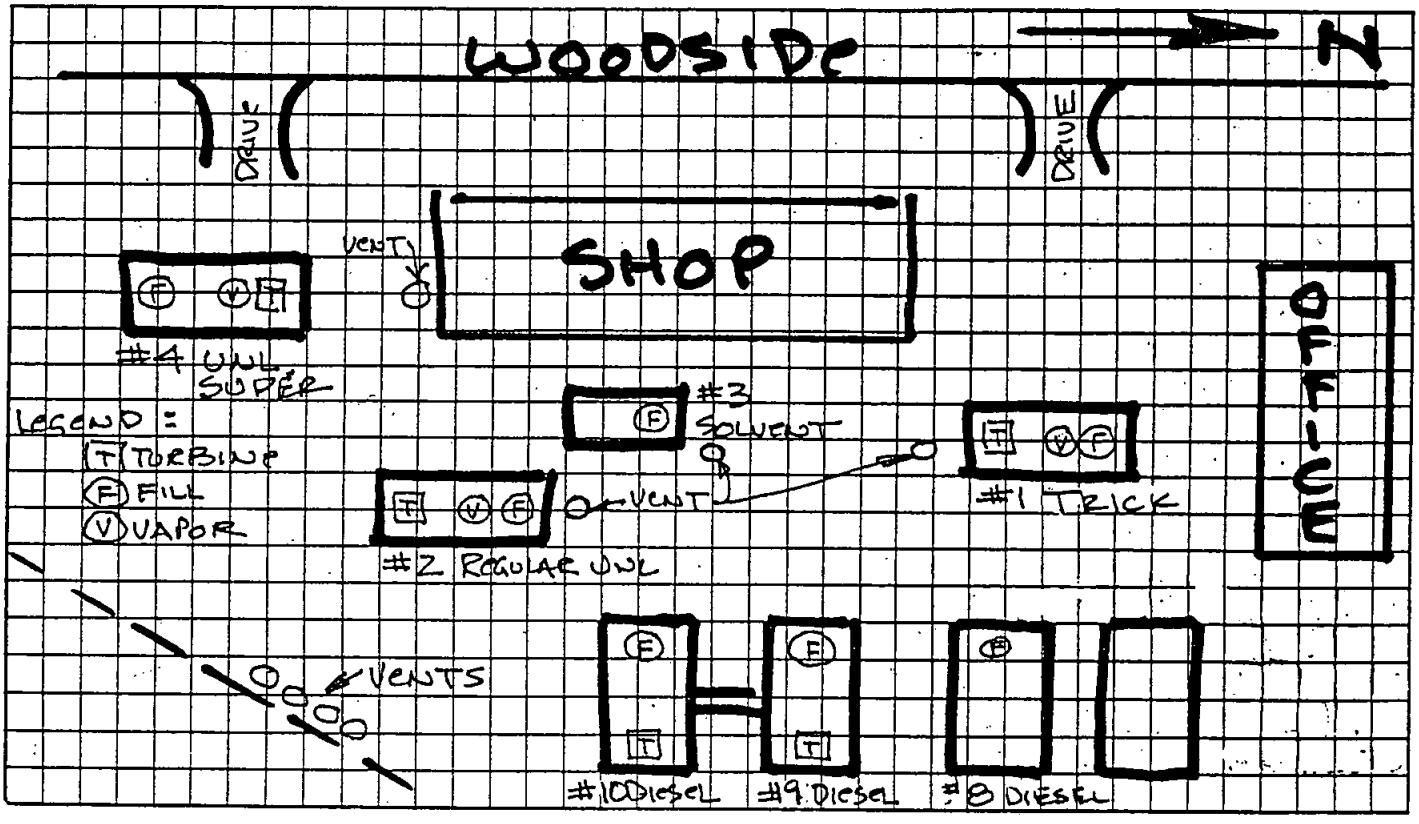
TEST TECHNICAN:
BOB MONTIJO
LICENSE # 91-1138

2 c 165

H 19469

TEST SITE LAYOUT

22



TESTER MONTIJO ENVIRONMENTAL

TEST COMPANY

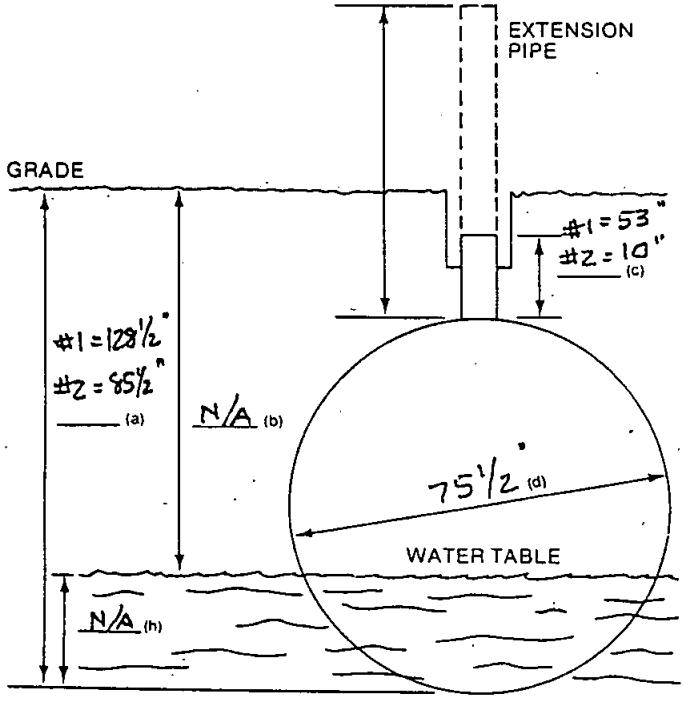
DATE 10/20/92

ADDRESS 1427 WOODSIDE SANTEE, CA

JOB # [illegible] GAL

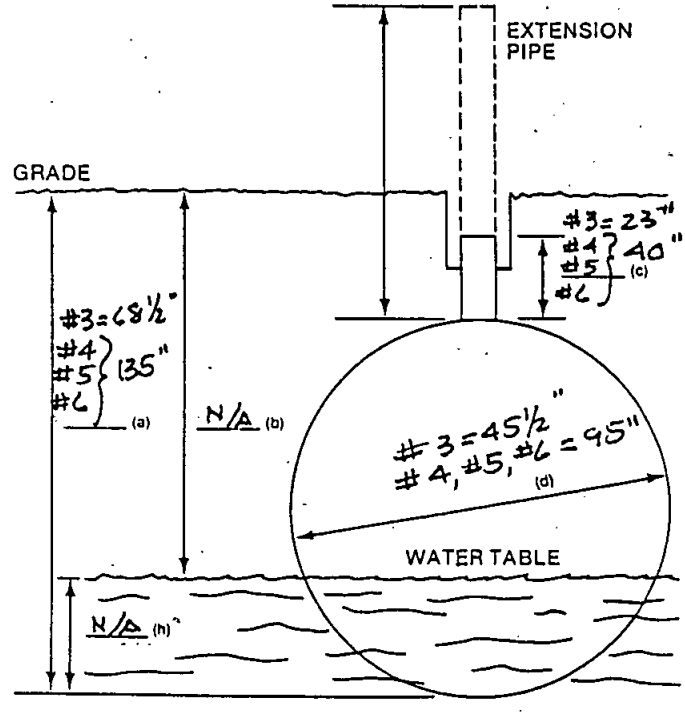
23

TEST 1: TANK DIMENSIONS



TANK IDENT. #1 TRICK
#2 REGULAR UNL

TEST 2: TANK DIMENSIONS



TANK IDENT. #3 SOLVENT / #4 SUPER UNLEAD
#8, #9 & #10 DIESEL

2 c/52

TANK INTEGRITY TEST REPORT

HAZARDOUS MATERIALS MANAGEMENT DIVISION

OFFICE USE ONLY

Permit # _____ Date Rec'd: 3/25/93 Tank #: 1/3/4

TANK LOCATION	ADDRESS 11429 Woodside		
	CITY Santee, Ca	ZIP 92071	
TANK OPERATOR	NAME El Capitan Oil	PHONE (619) 258-7113	
TANK OWNER	NAME Jim Wigington	PHONE (619) 258-7113	
	ADDRESS P.O. Box 2504		
	CITY Spring Valley, Ca	ZIP 91977	

Reason for Tank System Testing: [x] Annual test [ ] Retest After Repair [ ] Suspected Leak

[ ] Triannual Product Suction/Remote Fill Line [x] Annual Product Pressure Line [ ] Other _____

PRESENCE OF GROUNDWATER MUST BE DETERMINED OR TEST RESULTS WILL BE INVALID

Method for determining groundwater in tank excavation point Well

Was groundwater encountered in tank excavation? [ ] Yes [x] No

If yes, state groundwater compensation procedure used _____

Automatic Line Leak Detector Tested in accordance with CCR Section 2641 (i) [x] Yes [ ] No

Type of Product Line/Fill Delivery: [x] Pressurized [ ] Remote Fill [x] Suction [ ] Other _____

Type of Spill/Overfill Prevention: [ ] Positive Shut Off [ ] Ball Floats [ ] High Level Alarm

Tank No.	Tank Capacity	Tank Content	Product Line		Overfilled Tank Test (Including Vent/Vapor Pipe)		Underfilled Tank Test (Full/Overpressurization equipment Required)		Test Date
			Gal/Hour	Pass/Fail	Gal/Hour	Pass/Fail	Gal/Hour	Pass/Fail	
1	550	waste	N/A	N/A	.004	Pass	N/A	N/A	3-25-93
3	550	Solvent	N/A	N/A	-.004	Pass	N/A	N/A	
2	2500	Unlead	-.003	Pass	.037	Pass	N/A	N/A	
4	7500	Unlead	-.003	Pass	.037	Pass	N/A	N/A	

These test results have been conducted and performed, by a tester certified according to the requirements of the tank test equipment manufacturer. The tester is licensed by the Water Resources Control Board Office of Tank Tester Licensing and meets the requirements of Subchapter 17, Title 23, of the CA Code of regulations (Effective January 1, 1990). The tank owner has been notified of these results, and has been advised of the reporting requirements for integrity testing. This UST tightness test is approved by the State Water Resources Control Board(SWRCB), has received third party verification, and meets its applicable limitations.

Testing company Montijo Environmental Co

Name of Test Equipment Ainlay Tegrity Tester & Petrofite Line

Name of Licensed Tester Tim Montijo License No. 91-1090

Signature of tester R. Montijo Date 3/24/93 3-25-93

COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

HAZARDOUS MATERIALS MANAGEMENT DIVISION
P.O. BOX 85261
SAN DIEGO, CA. 92186-5261 (619) 338-2222

DHS:EH-065 (REV 7/92)

SEP 08 '93 16:48 MONTIJO ENVIRONMENTAL CO.

2 c/53

TANK INTEGRITY TEST REPORT

HAZARDOUS MATERIALS MANAGEMENT DIVISION

OFFICE USE ONLY

Date Rec'd: / / Date Due: / /

TANK LOCATION	ADDRESS	11429 Woodside	
	CITY	Santee Ca	ZIP 92071
TANK OPERATOR	NAME	El Capitan Oil	PHONE (619) 258-7113
TANK OWNER	NAME	Jim Wigington	PHONE (619) 258-7113
	ADDRESS	P.O. Box 2504	
	CITY	Spring Valley, Ca	ZIP 91977

Reason for Tank System Testing: ☑ Annual test ☐ Retest After Repair ☐ Suspected Leak

☐ Triannual Product Suction/Remote Fill Line ☐ Annual Product Pressure Line ☐ Other _____

PRESENCE OF GROUNDWATER MUST BE DETERMINED OR TEST RESULTS WILL BE INVALID

Method for determining groundwater in tank excavation _____

Was groundwater encountered in tank excavation? ☐ Yes ☑ No

If yes, state groundwater compensation procedure used _____

Automatic Line Leak Detector Tested in accordance with CCR Section 2641 (i) ☐ Yes ☐ No

Type of Product Line/Fill Delivery: ☐ Pressurized ☐ Remote Fill ☐ Suction ☐ Other _____

Type of Spill/Overfill Prevention: ☐ Positive Shut Off ☐ Ball Floats ☐ High Level Alarm

Tank No.	Tank Capacity (gal)	Tank Content	Product Line Gal/Hour	Product Line Pass/Fail	Overfill/Tank Test (including Vent/Vapor/Fill) Gal/Hour	Overfill/Tank Test (including Vent/Vapor/Fill) Pass/Fail	Overfill/Tank Test (Spill/Overfill Prevention Equipment Required) Gal/Hour	Overfill/Tank Test (Spill/Overfill Prevention Equipment Required) Pass/Fail	Test Date
7	10000	Diesel	N/A	N/A	-.032	Pass	N/A	N/A	3-24-93 3-25-93
8	10000	Diesel	N/A	N/A	-.007	Pass	N/A	N/A	3-24-93 3-25-93
9	10000	Diesel	-.001	Pass	-.031	Pass	N/A	N/A	3-24-93 3-25-93
10	10000	Diesel	-.001	Pass	-.031	Pass	N/A	N/A	3-24-93 3-25-93

These test results have been conducted and performed, by a tester certified according to the requirements of the tank test equipment manufacturer. The tester is licensed by the Water Resources Control Board Office of Tank Tester Licensing and meets the requirements of Subchapter 17, Title 23, of the CA Code of regulations (Effective January 1, 1990). The tank owner has been notified of these results, and has been advised of the reporting requirements for integrity testing. This UST tightness test is approved by the State Water Resources Control Board(SWRCB), has received third party verification, and meets its applicable limitations.

Testing company Montijo Environmental Co

Name of Test Equipment Ainlay Tegrity Tester & Petrotite Line

Name of Licensed Tester Tim Montijo License No. 91-18912

Signature of tester _____ Date 3-24-93 3-25-93

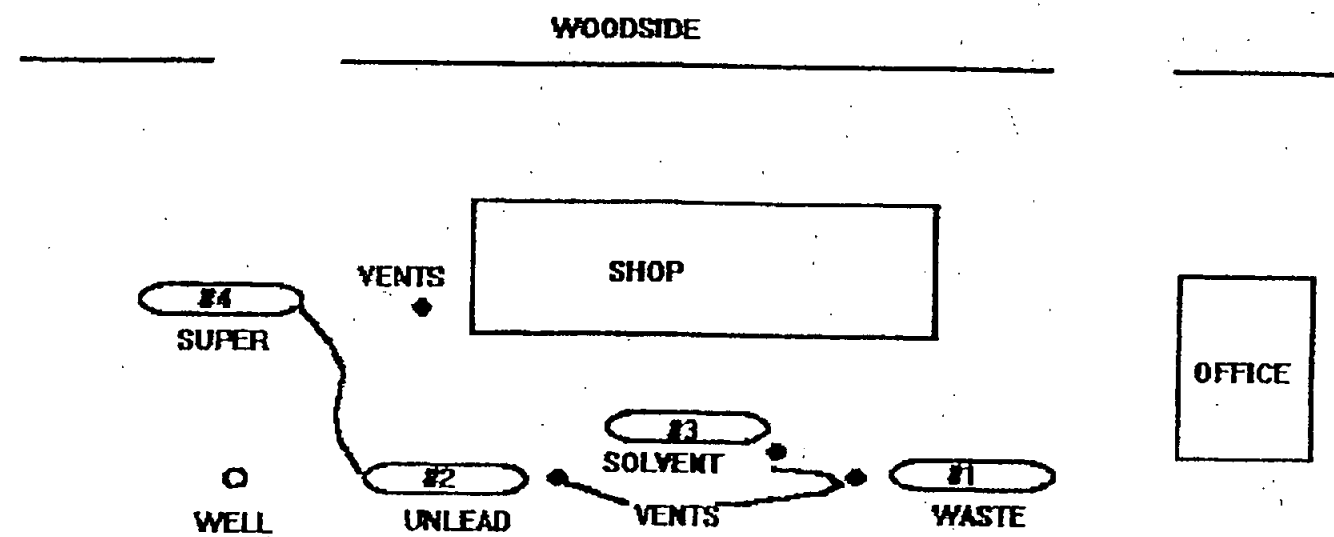
COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

DHS:HM-065 (REV 7/92)

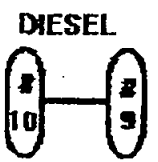
HAZARDOUS MATERIALS MANAGEMENT DIVISION
P.O. BOX 85621
SAN DIEGO, CA. 92138-5261 (619) 338-2222

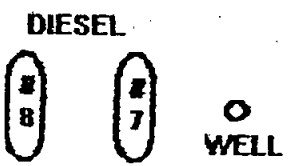
P.1

SEP 08 '93 16:47 MONTIJO ENVIRONMENTAL CO.









EL CAPITAN OIL
11427 WOODSIDE
SANTEE, CA.
3/24/93 3/25/93

MONTIJO ENVIRONMENTAL CO.
P.O. BOX 83
POWAY, CA. 92074-0083
(619)748-0533

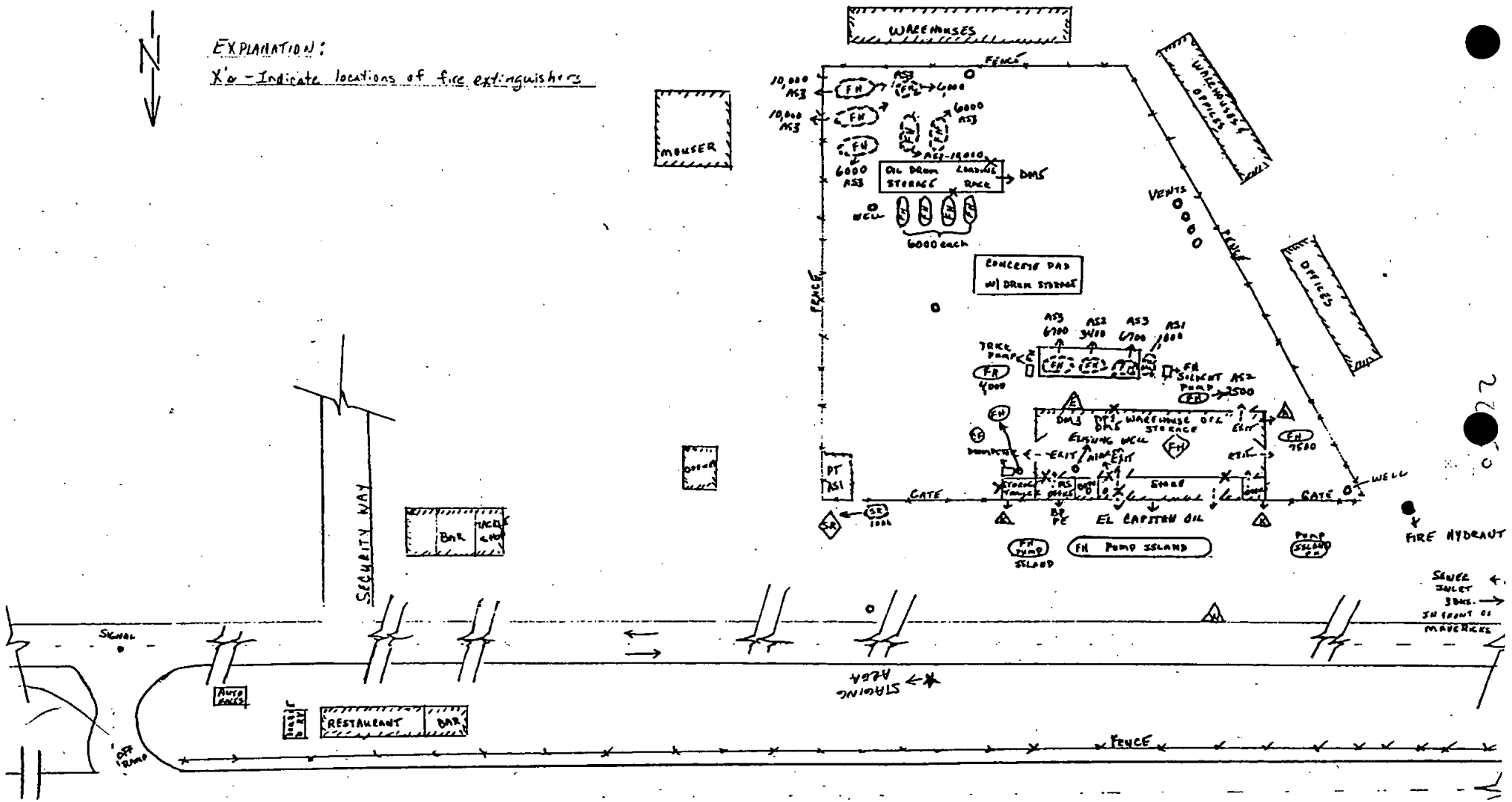
45172

HAZARDOUS MATERIALS MANAGEMENT DIV.

November 17, 1993
Thomas Bros. Coordinates: 1231 G5
El Capitan Oil Company
11427 Woodside Ave., Santee, Ca.

SITE MAP

H 19469
Emergency Coordinator: Mike Thoma
Phone: 448-5891 Day 562-7287 24hr



Item #	Product Description	Storage	Max Capacity	Annual Capacity
D001	AW-68 Hydraulic Oil	AS3	6,000 gal	6,000 gal
D002	30 Wt Oil	AS4	6,000 gal	6,000 gal
D003	15-40 Wt Oil	AS3	10,000 gal	10,000 gal
D004	40 Wt Oil	AS4	6,000 gal	6,000 gal
D005	Universal TDH	DM5	165 gal	165 gal
D006	Diesel	AS4	10,000 gal	10,000 gal
D007	Kerosene	AS3	6,700 gal	13,400 gal
D008	Solvent	AS1	1,000 gal	2,000 gal
D009	Acetone	DM5	110 gal	1,000 gal
D010	Propane	AS1	550 gal	550 gal
D011	Lubrication Oils	CF	6,880 gal	14,800 gal

(*Only two of the ten aboveground storage tanks were empty during the March 1993 inspection)

STORAGE TANK SIZES & CONTENT

El Capitan Oil Co.
Santee, CA 92071

TANK	Size	Product	Stick Reading	Gallons	
1	6,000	Empty			Above ground
2	10,000	Empty			Above
3	6,000	40 wt. oil			Above
4	6.000	hydraulic oil			Above
5	10,000	30 WT OIL			Above
6	10,000	Empty			Above
7	6,000	Empty			Under
8	6,000	Diesel			Under
9	6,000	Diesel			Under
10	6,000	Diesel			Under
11	4,000	TRICK			Under
12	6,700	Kerosene			Above
13	3,400	Empty			Above
14	6,700	Empty			Above
15	1,000	Solvent			Above
16	2,500	Super Unl			Under
17	550	Solvent			Under
18	550	Waste Oil			Under
19	7,500	Unleaded			Under
20		Propane			Above

2C109

TANK INTEGRITY TEST REPORT

HAZARDOUS MATERIALS MANAGEMENT DIVISION

OFFICE USE ONLY

Est. # H _____ Date Rec __/__/__ Tester on file y/n

TANK LOCATION	ADDRESS 11427 WOODSIDE	
	CITY SANTEE	ZIP 92071
TANK OPERATOR	NAME JIM WIGINGTON	PHONE (619) 448-5891
TANK OWNER	NAME JIM WIGINGTON	PHONE (619) 448-5891
	ADDRESS 11427 WOODSIDE	
	CITY SANTEE	ZIP 92071

Reason for Tank System Testing: ☒ Annual test ☐ Retest After Repair ☐ Suspected Leak

☐ Triannual Product Suction/Remote Fill Line ☐ Annual Product Pressure Line ☐ Other _____

PRESENCE OF GROUNDWATER MUST BE DETERMINED OR TEST RESULTS WILL BE INVALID

Method for determining groundwater in tank excavation WELL POINT

Was groundwater encountered in tank excavation? ☐ Yes ☒ No

If yes, state groundwater compensation procedure used _____

Automatic Line Leak Detector Tested in accordance with CCR Section 2641 (i) ☒ Yes ☐ No

Type of Product Line/Fill Delivery: ☒ Pressurized ☐ Remote Fill ☐ Suction ☐ Other _____

Type of Spill/Overfill Prevention: ☐ Positive Shut Off ☒ Ball Floats ☐ High Level Alarm

Tank No.	Tank Capacity	Tank Content	Product Line		Overfilled Tank Test Including Vent, Vapor, Fill		Underfilled Tank Test (spill/overfill prevention equipment Required)		Test Date
			Gal/Hour	Pass/Fail	Gal/Hour	Pass/Fail	Gal/Hour	Pass/Fail	
10	6000	DIESEL	.003	PASS	0.00	PASS	—	—	3-23-95
9	6000	DIESEL	.004	PASS	-0.04	PASS	—	—	3-23-95
8	6000	DIESEL	.002	PASS	+0.02	PASS	—	—	3-23-95
7	6000	DIESEL	N/A	NONE	+0.03	PASS	—	—	3-23-95

These test results have been conducted and performed, by a tester certified according to the requirements of the tank test equipment manufacturer. The tester is licensed by the Water Resources Control Board Office of Tank Tester Licensing and meets the requirements of Subchapter 17, Title 23, of the CA Code of regulations (Effective January 1, 1990). The tank owner has been notified of these results, and has been advised of the reporting requirements for integrity testing. This UST tightness test is approved by the State Water Resources Control Board(SWRCB), has received third party verification, and meets its applicable limitations.

Testing company CONFIDENCE UST SERVICES INC.

Name of Test Equipment AES SYSTEM II

Name of Licensed Tester DOUG YOUNG License No. 90-1076

Signature of tester _____ Date 3/23/95

COUNTY OF SAN DIEGO
DEPARTMENT OF HEALTH SERVICES
ENVIRONMENTAL HEALTH SERVICES

DHS:HM-965 (REV 7/92)

HAZARDOUS MATERIALS MANAGEMENT DIVISION
P.O. BOX 85621
SAN DIEGO, CA. 92138-5261 (619) 338-2222

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CONFIDENCE UST SERVICES, INC.

417 MONTCLAIR STREET
BAKERSFIELD, CA 93309
(805) 631-3870

AES - SYSTEM II
PRECISION TANK & LINE TEST RESULTS SUMMARY

Invoice Address:

EL CAPITAN OIL CO.
11427 WOODSIDE
SANTEE, CA 92071

Tank Location:

EL CAPITAN OIL CO.
11427 WOODSIDE
SANTEE, CA

W.O.#: 1847

I.D. Number: N/A
Technician: D. YOUNG
Tech.#: 86116 Van#: 01

Date: 03-23-95 Time Start: 15:00 End: 02:30 County: SD
Facility Phone#: (619) 448-5891 Groundwater Depth: 144"+ Blue Prints: N/A
Contact: JIM WIGINGTON Date;Time system was filled: 6+ HOURS

Tank	Tank Capacity	Product	Tank	Fill/Vent Vapor Lines	Product Line	Type Of Vapor Recovery	Inches of Water/Tank	Pump Type	Tank Material
1	6000	DIESEL	PASS	PASS	PASS	N/A	0.00"	TURB.	SWS
2	6000	DIESEL	PASS	PASS	PASS	N/A	0.00"	TURB.	SWS
3	6000	DIESEL	PASS	PASS	PASS	N/A	0.00"	TURB.	SWS
4	6000	DIESEL	PASS	PASS	PASS	N/A	0.00"	N/A	SWS
5	2500	SUPREME	PASS	PASS	PASS	II	0.00"	TURB.	SWS
6	550	KEROSEN	PASS	PASS	PASS	N/A	0.00"	SUCT.	SWS

Additional Information: TEST TECHNICIAN: DOUG YOUNG O.T.T.L. #90-1076
TANK 1 = T7 TANK 2 = T8 TANK 3 = T9
TANK 4 = T10 TANK 5 = T16 TANK 6 = T17

SITE LOG	TIME
Set Up Equip:	15:00
Bled Product Lines:	YES
Bled Vapor Lines:	YES
Bled Vent lines:	YES
Bled Turbine:	YES
Bled Suction Pump:	YES
Risers Installed:	YES

a) This system and method meets or exceeds the criteria in USEPA 40CFR part 280, NFPA 329-87 and all applicable state and local codes.
b) Any failure listed above may require further action, check with all regulatory agencies.

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Certified Technician Signature : 

Date : 3-23-95

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CONFIDENCE UST SERVICES, INC.

417 MONTCLAIR STREET
BAKERSFIELD, CA 93309
(805) 631-3870

AES - SYSTEM II
PRECISION TANK & LINE TEST RESULTS SUMMARY

Invoice Address:

EL CAPITAN OIL CO.
11427 WOODSIDE
SANTEE, CA 92071

Tank Location:

EL CAPITAN OIL CO.
11427 WOODSIDE
SANTEE, CA

W.O.#: 1847

I.D. Number: N/A
Technician: D. YOUNG
Tech.#: 86116 Van#: 01

Date: 03-23-95 Time Start: 15:00 End: 02:30 County: SD
Facility Phone#: (619) 448-5891 Groundwater Depth: 144"+ Blue Prints: N/A
Contact: JIM WIGINGTON Date;Time system was filled: 6+ HOURS

Tank	Tank Capacity	Product	Tank	Fill/Vent Vapor Lines	Product Line	Type Of Vapor Recovery	Inches of Water/Tank	Pump Type	Tank Material
1	550	WST OIL	PASS	PASS	N/A	N/A	0.00"	NONE	SWS
2	7500	REGULAR	PASS	PASS	PASS	II	0.00"	TURB.	SWS
3									
4									
5									
6									

Additional Information: TEST TECHNICIAN: DOUG YOUNG O.T.T.L. #90-1076
TANK 1 = T18 TANK 2 = T19
ALL MECHANICAL LINE LEAK DETECTORS WERE TESTED AND ARE OPERATIONAL.

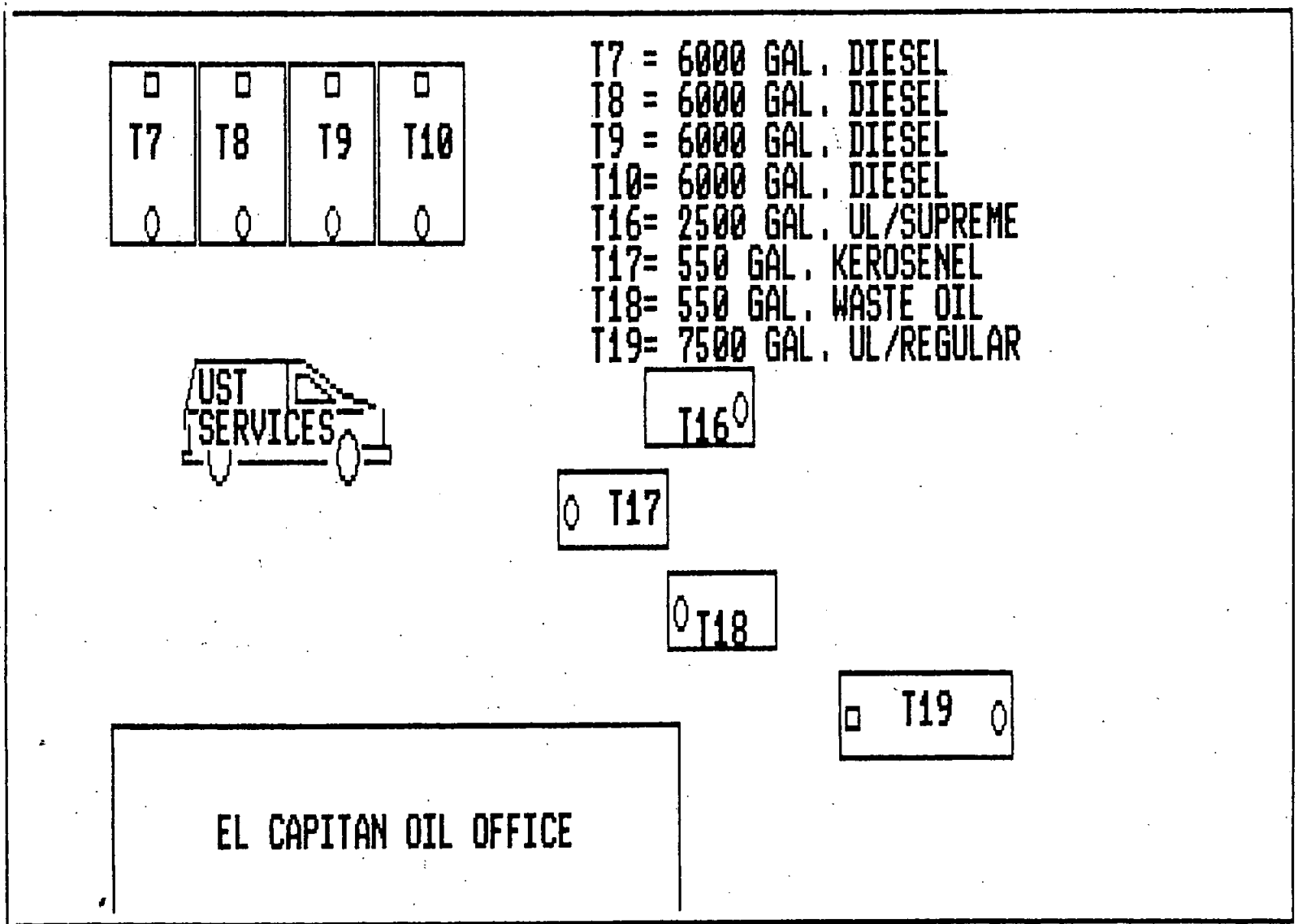
SITE LOG	TIME
Set Up Equip:	15:00
Bled Product Lines:	YES
Bled Vapor Lines:	YES
Bled Vent lines:	YES
Bled Turbine:	YES
Bled Suction Pump:	YES
Risers Installed:	YES

a) This system and method meets or exceeds the criteria in USEPA 40CFR part 280, NFPA 329-87 and all applicable state and local codes.
b) Any failure listed above may require further action, check with all regulatory agencies.

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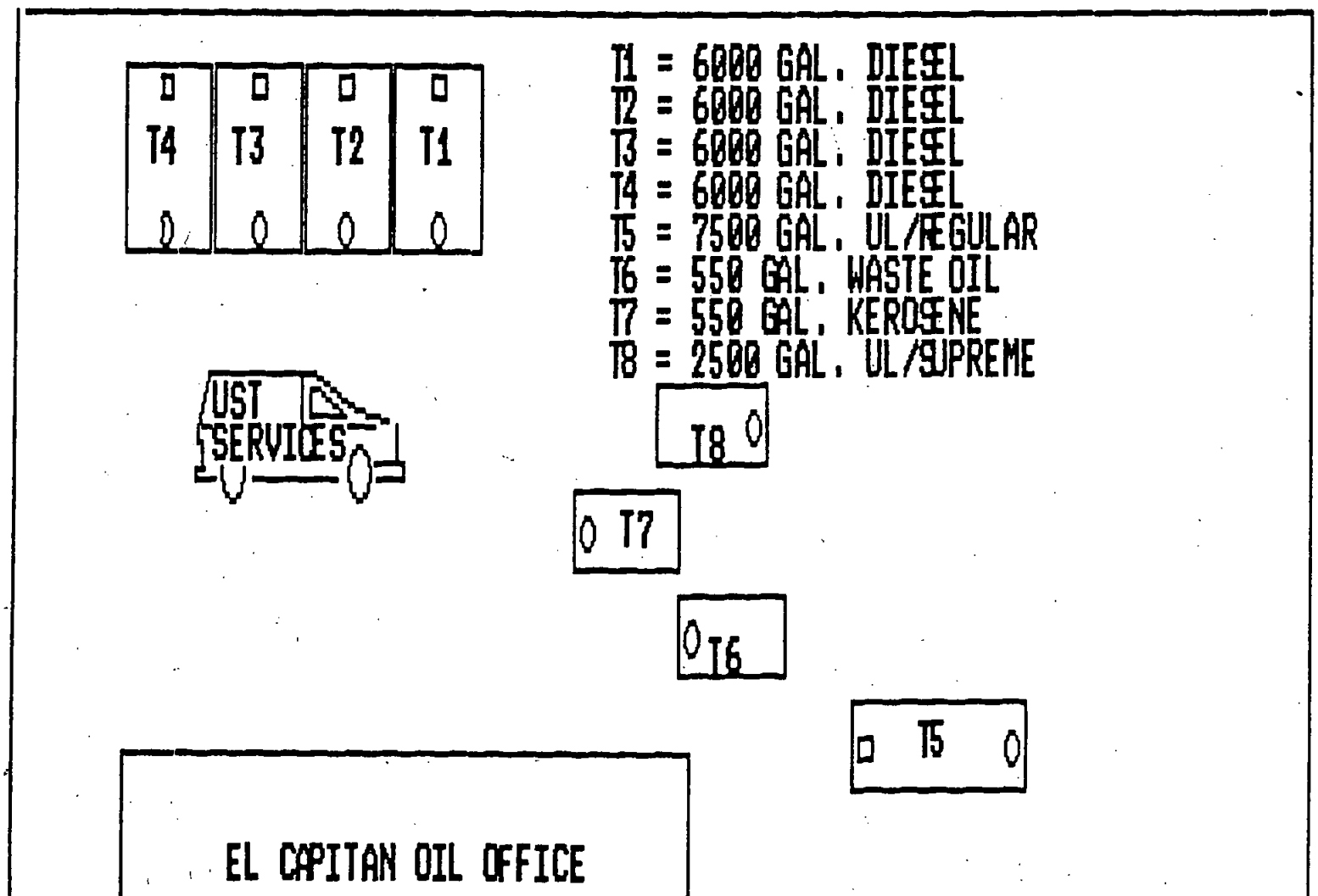
Certified Technician Signature :

Date : 3-23-95



Site Layout For : 11427 WOODSIDE , SANTEE, CA

2c1/2



Site Layout For : 11427 WOODSIDE , SANTEE, CA.

2 C/13

2C76

COUNTY OF SAN DIEGO | COMPLIANCE INSPECTION REPORT | ROUTE 103

K07 | 05/18/01 | H 1 9 4 6 9

EL CAPITAN OIL COMPANY

11427 WOODSIDE AV

SANTEE 92071-4725

CONTACT: ~~JIM WIGINGTON~~
160: Sam ATTisha

PHONE : 258-7113

MAIL TO :

IN SAMAD ATTISHA

OWNER : ~~WIGGINTON & SINCL~~AIR

FIRE DISTRICT: 49 CDF DISTRICT:

HISTORY

PERMIT ANNIVERSARY DATE: 05/31

INSPECTION:			SITE:
08/25/97	MARTINEZ	ROUTINE	EPA NO: CAL000121951
12/10/98	MARTINEZ	ROUTINE	
06/07/00	GRIFFITH	ROUTINE	ONGOING SITE ASSESSMENT
03/23/98	BP ACCEPTANCE DATE	ONSITE TRTMNT:	SIC1:5172 SIC2:K78 LQHE:

PERMIT STAFF: POP-UP:

	TO SPECIALIST:	FOR:
() DEACTIVATE		
() DUPLICATE EST-NUM _____	___/___/___	_____
() AGENCY LETTER(S): _____ _____	___/___/___	_____
() NOTICE ISSUED	___/___/___	_____
() COMPLAINT INSPECTION		

SPECIAL INSTRUCTIONS:

COUNTY OF SAN DIEGO | COMPLIANCE INSPECTION REPORT | ROUTE 103

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O06 FILTER DRUM. D. MARTINEZ 1/99

O07 REC'D METER CALIBRATION DM 9/96

O08 ASSESSORS # 382-320-06

O10 CHECK EMERGENCY TANK IN BACK BY OIL STORAGE AREA. TANK MUST BE

O10 EMPTY IF NOT ISSUE AN NOV. D. MARTINEZ 8/25/97

O13 TWO 6,000 GAL DIESEL TANKS MANIFOLDED TOGETHER AND OTHER TWO 6,000

O13 GAL USTS HAVE NO PRODUCT LINES.

O15 WRITTEN MONITORING/RESPONSE PLAN FOR ALL. USTS RECEIVED. 11/93 CG.

O16 UPDATED BP SITE MAP & CHEMICAL INVENTORY RECEIVED. 11/93 CG

O17 UPDATED UST MONITORING AND EMERGENCY PROCEDURES. G. GRIFFITH 6/00

O18 UPDATED UST CERTIFICATE OF FINANCIAL RESPONSIBILITY. GRIFFITH 6/00

O19 UST MONITOR CERTIFICATE DATED 8/1/00 ON FILE. FITZ

O22 REPLY TO 3/95 INSPECTION NOTICE/REPORT RECEIVED, INCLUDING: LETTER

O22 STATING STATUS OF ALL UST MONITORING; RECEIPTS FOR FUNCTIONAL

O22 CHECKS FOR UD'S, LEAK DETECTOR AND SENSORS; BUSINESS PLAN AND

O22 TRAINING RECORDS; 94-95 I.T. FOR USTS AND PIPING; 1995 F.R. DH/95.

O23 REVIEWED SIRS RECORDS SINCE NOVEMBER 1994 FOR THE 2500 AND 7500

O23 UNLEADED FUEL USTS. DH/94

O26 INSTALLED NEW DISPENSER AND PIPING FOR UL UST AND INSTALL

O26 FUTURE VR AND PRODUCT LINES FOR SUL UST.

O28 RECEIVED RESPONSE TO CIR 8/25/97 INCLUDING LINE TEST & MONITOR

O28 CERTIFICATION. D. MARTINEZ 10/24/97

O45 CERTIFICATION. D. MARTINEZ 10/24/97

O53 TANK TEST DENIED - RAPTIS 7/11/96

O54 RECD FR DATED 2/6/98 DMARTINEZ 12/98

COUNTY OF SAN DIEGO | COMPLIANCE INSPECTION REPORT | ROUTE 103

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WASTES

		MAX QTY	ANN QTY	UNIT	STR	TRT MTD	CON	CAR	DIS
001	221 WASTE OIL & MIXED OIL	750	7,080	GALS	AN1	001			YES
	0015 ASBURY ENVIR. SERVICES								
	COMMENT: USED OIL								
	FIELD NOTE:								

		MAX QTY	ANN QTY	UNIT	STR	TRT MTD	CON	CAR	DIS
002	352 ORGANIC SOLIDS (OTHER)	55	55	GALS	DM5	007			
	0015 ASBURY ENVIR. SERVICES								
	COMMENT: ABSORBENT WASTE								
	FIELD NOTE:								

		MAX QTY	ANN QTY	UNIT	STR	TRT MTD	CON	CAR	DIS
003	888 USED OIL FILTERS	100	300	LBS	DM5	888			
	9997 UNREGISTERED HAZ WST HAULER								
	COMMENT: VORTEX								
	FIELD NOTE:								

		MAX QTY	ANN QTY	UNIT	STR	TRT MTD	CON	CAR	DIS
	WASTE CODE:								
	HAULER:								
	COMMENT:								
	FIELD NOTE:								

COUNTY OF SAN DIEGO | COMPLIANCE INSPECTION REPORT | ROUTE 103

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INVENTORY

		MAX QTY	ANN QTY	UNIT	STR	MSDS	CON	BILL
001	CAS NO: 8002-05-9 AW-68 HYDRAULIC OIL	~~10,000~~ ~~2,000~~	~~20,000~~ ~~8,000~~	GALS	AS3			
	HAZARD CAT 1: FIRE HAZARD		HAZARD CAT 2: IMMED HEALTH HAZRD					
	FIELD NOTE:							

		MAX QTY	ANN QTY	UNIT	STR	MSDS	CON	BILL
002	CAS NO: 8002-05-9 30 WT OIL	~~6,000~~ 1,500	~~12,000~~ ~~6,000~~	GALS	AS3			
	HAZARD CAT 1: FIRE HAZARD		HAZARD CAT 2: IMMED HEALTH HAZRD					
	FIELD NOTE:							

		MAX QTY	ANN QTY	UNIT	STR	MSDS	CON	BILL
003	CAS NO: 8002-05-9 15-40 WT OIL	~~6,000~~ ~~2,000~~	~~12,000~~ ~~6,000~~	GALS	AS3			
	HAZARD CAT 1: FIRE HAZARD		HAZARD CAT 2: IMMED HEALTH HAZRD					
	FIELD NOTE:							

		MAX QTY	ANN QTY	UNIT	STR	MSDS	CON	BILL
004	CAS NO: 8002-05-9 40 WT OIL	~~6,000~~ 1,500	~~12,000~~ ~~6,000~~	GALS	AS3			
	HAZARD CAT 1: FIRE HAZARD		HAZARD CAT 2: IMMED HEALTH HAZRD					
	FIELD NOTE:							

COUNTY OF SAN DIEGO | COMPLIANCE INSPECTION REPORT | ROUTE 103

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		MAX QTY	ANN QTY	UNIT	STR	MSDS	CON	BILL
	CAS NO: 8002-05-9	2,475	6,000	GALS	DM5			
005	LUBRICATING OIL 30W,40W,10W40 ATF,ROTELA							
	HAZARD CAT 1: FIRE HAZARD		HAZARD CAT 2: IMMED HEALTH HAZRD					
	FIELD NOTE:							

		MAX QTY	ANN QTY	UNIT	STR	MSDS	CON	BILL
	CAS NO: 68476-34-6	~~10,100~~ 10,000	1,320,000	GALS	AS3			
006	DIESEL	CLEAR ~~& RED DANKS~~						
	HAZARD CAT 1: FIRE HAZARD		HAZARD CAT 2: IMMED HEALTH HAZRD					
	FIELD NOTE:							

		MAX QTY	ANN QTY	UNIT	STR	MSDS	CON	BILL
	CAS NO: 8008-20-6	~~1,000~~ 2500	8,400	GALS	AS1			
007	KEROSENE							
	HAZARD CAT 1: FIRE HAZARD		HAZARD CAT 2: IMMED HEALTH HAZRD					
	FIELD NOTE:							

		MAX QTY	ANN QTY	UNIT	STR	MSDS	CON	BILL
	CAS NO: 64742-88-7	550	2,000	GALS	AS1			
008	MINERAL SPIRITS (SOLVENT)							
	HAZARD CAT 1: FIRE HAZARD		HAZARD CAT 2: IMMED HEALTH HAZRD					
	FIELD NOTE:							

COUNTY OF SAN DIEGO | COMPLIANCE INSPECTION REPORT | ROUTE 103

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		MAX QTY	ANN QTY	UNIT	STR	MSDS	CON	BILL
	CAS NO: 67-64-1	110	165	GALS	DM5			
009	ACETONE							
	HAZARD CAT 1: FIRE HAZARD		HAZARD CAT 2: IMMED HEALTH HAZRD					
	FIELD NOTE:							

		MAX QTY	ANN QTY	UNIT	STR	MSDS	CON	BILL
	CAS NO: 74-98-6	500	12,000	GALS	AS1			
010	PROPANE							
	HAZARD CAT 1: FIRE HAZARD		HAZARD CAT 2: SUDDN RLSE OF PRES					
	FIELD NOTE:							

		MAX QTY	ANN QTY	UNIT	STR	MSDS	CON	BILL
	CAS NO: 8002-05-9	1,300	1,300	GALS	CF			
011	LUBRICATING OILS							
	HAZARD CAT 1: FIRE HAZARD		HAZARD CAT 2: IMMED HEALTH HAZRD					
	FIELD NOTE:							

		MAX QTY	ANN QTY	UNIT	STR	MSDS	CON	BILL
	CAS NO: 811-98-3	165	385	GALS	DM5			
012	METHANOL							
	HAZARD CAT 1: FIRE HAZARD		HAZARD CAT 2: IMMED HEALTH HAZRD					
	FIELD NOTE:							

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COUNTY OF SAN DIEGO | COMPLIANCE INSPECTION REPORT | ROUTE 103

KO7 | 05/18/01 | H 19469

013

		MAX QTY	ANN QTY	UNIT	STR	MSDS	CON	BILL
A D D	CAS NO: 915-67-3	~~16,700~~	~~13~~,000	2	A53			
	CHEMICAL NAME: Red-Dye Diesel							
	HAZARD CAT 1: 01 HAZARD CAT 2: 99							
	FIELD NOTE:							

LC83

TANKS

TANK OWNER: JIM WIGINGTON	PROP OWNER: WILLIAM WRIGHT
11427 WOODSIDE AV	11427 WOODSIDE AV
SANTEE CA 92071	SANTEE CA 92071

013	CAPACITY: 4,000 GALS	CONTENTS: REGULAR UNLEADED	OWNERS TANK ID: 000013
TC NAME: TRICK RACING GAS UNLEADED		W/P: P	CAS# 8006-61-9
MON ALT: NUMBER 20 DW TANK, DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON			
LINE LEAK DETECTOR: INTERSTITIAL.			

TANK INFO	PIPE INFO
SYSTEM TYPE : DOUBLE WALL	SYSTEM TYPE : PRESSURIZED
TANK MAT PRIMARY : FIBERGLASS	CONSTRUCT : DOUBLE WALL
INTERIOR COATING : NONE	MATERIAL (PRIMARY) : FIBERGLASS
EXTERIOR CORR PROT : VINYL WRAP	CORROSION PROTECTION : FIBERGLASS PIPE
A.T.G TYPE: NONE	PPLLD TYPE : POSITIVE WITH ALARM
SPILL BUCKETS : YES	PPLLD BRAND: VEEDER-ROOT TLS 350 W/SENSOR
MONITOR DEVICE : VEEDER ROOT	MONITOR DEVICE : VEEDER ROOT
TANK TEST: TIGHT DATE: 01/10/92	PIPE TEST: TIGHT DATE: 07/15/95
OVERFILL DEVICES : SPL BASIN+HI LVL ALM+BL FLT	REGL STATUS: PERMIT TO OPERATE

GRD WTR > 20 FT Y/N: YES	1998 STD Y/N: YES	BELOW GRADE EQUIP VERIFICATION DATE: 00 06 07	FINANCIAL RESP DATE:

014	CAPACITY: 8,000 GALS	CONTENTS: DIESEL	OWNERS TANK ID: NT1976
TC NAME: DIESEL		W/P: P	CAS# 68476-34-6

MON ALT: NUMBER 20 DW TANK, DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON

LINE LEAK DETECTOR: INTERSTITIAL.

TANK INFO	PIPE INFO
SYSTEM TYPE : DOUBLE WALL MULTI-COMPARTMENT	SYSTEM TYPE : PRESSURIZED
TANK MAT PRIMARY : CARBON STEEL	CONSTRUCT : DOUBLE WALL
INTERIOR COATING : NONE	MATERIAL (PRIMARY) : OTHER - BLIND REMARK
EXTERIOR CORR PROT : FIBERGLASS REINFORCED PLASTIC	CORROSION PROTECTION : OTHER - BLIND REMARK
A.T.G TYPE: VEEDER RT TLS-250/250I/300/350	PPLLD TYPE : POSITIVE WITH ALARM
SPILL BUCKETS : YES	PPLLD BRAND: VEEDER-ROOT TLS 350 W/SENSOR
MONITOR DEVICE : VEEDER ROOT	MONITOR DEVICE : VEEDER ROOT
TANK TEST: TIGHT DATE: 10/22/97	PIPE TEST: TIGHT DATE: 10/22/97
OVERFILL DEVICES : HIGH LEVEL ALARM+BALL FLOAT	REGL STATUS: PERMIT TO OPERATE

GRD WTR > 20 FT Y/N: YES	1998 STD Y/N: YES	BELOW GRADE EQUIP VERIFICATION DATE: 00 06 07	FINANCIAL RESP DATE:

COUNTY OF SAN DIEGO | COMPLIANCE INSPECTION REPORT | ROUTE 103

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015	CAPACITY: 4,000 GALS	CONTENTS: SUPER UNLEADED	OWNERS TANK ID: NT1976
TC NAME: PREMIUM UNLEADED		W/P: P	CAS# 8006-61-9
MON ALT: NUMBER 20 DW TANK, DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON			
LINE LEAK DETECTOR: INTERSTITIAL			

TANK INFO	PIPE INFO
SYSTEM TYPE : DOUBLE WALL MULTI-COMPARTMENT	SYSTEM TYPE : PRESSURIZED
TANK MAT PRIMARY : CARBON STEEL	CONSTRUCT : DOUBLE WALL
INTERIOR COATING : NONE	MATERIAL (PRIMARY) : OTHER - BLIND REMARK
EXTERIOR CORR PROT : FIBERGLASS REINFORCED PLASTIC	CORROSION PROTECTION : OTHER - BLIND REMARK
A.T.G TYPE: VEEDER RT TLS-250/250I/300/350	PPLLD TYPE : POSITIVE WITH ALARM
SPILL BUCKETS : YES	PPLLD BRAND: VEEDER-ROOT TLS 350 W/SENSOR
MONITOR DEVICE : VEEDER ROOT	MONITOR DEVICE : VEEDER ROOT
TANK TEST: TIGHT DATE: 10/22/97	PIPE TEST: TIGHT DATE: 10/22/97
OVERFILL DEVICES : HIGH LEVEL ALARM+BALL FLOAT	REGL STATUS: PERMIT TO OPERATE

GRD WTR > 20 FT Y/N: YES	1998 STD Y/N: YES	BELOW GRADE EQUIP VERIFICATION DATE: 00 06 07	FINANCIAL RESP DATE:

COUNTY OF SAN DIEGO | COMPLIANCE INSPECTION REPORT | ROUTE 103

KO7 | 05/18/01 . | H 1 9 4 6 9

O16	CAPACITY: 5,000 GALS	CONTENTS: REGULAR UNLEADED	OWNERS TANK ID: NT1976
TC NAME: REGULAR UNLEADED		W/P: P	CAS# 8006-61-9
MON ALT: NUMBER 20 DW TANK, DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON			
LINE LEAK DETECTOR: INTERSTITIAL.			

TANK INFO	PIPE INFO
SYSTEM TYPE : DOUBLE WALL MULTI-COMPARTMENT	SYSTEM TYPE : PRESSURIZED
TANK MAT PRIMARY : CARBON STEEL	CONSTRUCT : DOUBLE WALL
INTERIOR COATING : NONE	MATERIAL (PRIMARY) : OTHER - BLIND REMARK
EXTERIOR CORR PROT : FIBERGLASS REINFORCED PLASTIC	CORROSION PROTECTION : OTHER - BLIND REMARK
A.T.G TYPE: VEEDER RT TLS-250/250I/300/350	PPLLD TYPE : POSITIVE WITH ALARM
SPILL BUCKETS : YES	PPLLD BRAND: VEEDER-ROOT TLS 350 W/SENSOR
MONITOR DEVICE : VEEDER ROOT	MONITOR DEVICE : VEEDER ROOT
TANK TEST: TIGHT DATE: 10/22/97	PIPE TEST: TIGHT DATE: 10/22/97
OVERFILL DEVICES : HIGH LEVEL ALARM+BALL FLOAT	REGL STATUS: PERMIT TO OPERATE

GRD WTR > 20 FT Y/N: YES	1998 STD Y/N: YES	BELOW GRADE EQUIP VERIFICATION DATE: 00 06 07	FINANCIAL RESP DATE:

COUNTY OF SAN DIEGO | COMPLIANCE INSPECTION REPORT | ROUTE 103

K07 | 05/18/01 | H 1 9 4 6 9

017	CAPACITY: 3,000 GALS	CONTENTS: DIESEL	OWNERS TANK ID: NT1976
TC NAME: RED DIESEL		W/P: P	CAS# 68476-34-6

MON ALT: NUMBER 20 DW TANK, DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON

LINE LEAK DETECTOR: INTERSTITIAL

TANK INFO	PIPE INFO
SYSTEM TYPE : DOUBLE WALL MULTI-COMPARTMENT	SYSTEM TYPE : PRESSURIZED
TANK MAT PRIMARY : CARBON STEEL	CONSTRUCT : DOUBLE WALL
INTERIOR COATING : NONE	MATERIAL (PRIMARY) : OTHER - BLIND REMARK
EXTERIOR CORR PROT : FIBERGLASS REINFORCED PLASTIC	CORROSION PROTECTION : OTHER - BLIND REMARK
A.T.G TYPE: VEEDER RT TLS-250/250I/300/350	PPLLD TYPE : POSITIVE WITH ALARM
SPILL BUCKETS : YES	PPLLD BRAND: VEEDER-ROOT TLS 350 W/SENSOR
MONITOR DEVICE : VEEDER ROOT	MONITOR DEVICE : VEEDER ROOT
TANK TEST: TIGHT DATE: 10/22/97	PIPE TEST: TIGHT DATE: 10/22/97
OVERFILL DEVICES : HIGH LEVEL ALARM+BALL FLOAT	REGL STATUS: PERMIT TO OPERATE

GRD WTR > 20 FT Y/N: YES	1998 STD Y/N: YES	BELOW GRADE EQUIP VERIFICATION DATE: 00 06 07	FINANCIAL RESP DATE:

******NOTE: TANK 001 IS CLOSED BY REMOVAL 04/29/98

******NOTE: TANK 002 IS CLOSED BY REMOVAL 04/29/98

5/01 2C98

EL CAPITAN OIL

TANK CHART DATE: _____

TANK	SIZE	PRODUCT	STICK READING	GALLONS	NOTES
1	6,000	15W-40			
2	10,000	AW-68			
3	6,000	HD-30			
4	6,000	HD-40			
5	10,000	Clear Diesel			
6	10,000	Red-Dye Diesel			
7	8,000	Clear Diesel + UST			
8	4,000	Premium Unleaded + UST			
9	5,000	Unleaded + UST			
10	3,000	Red-Dye Diesel + UST			
11	4,000	TRICK 112 + UST			
12	6,700	*Above Ground* Red-Dye Diesel			*700 Min. Level
13	3,400	*Above Ground* Clear Diesel			
14	6,700	*Above Ground* Clear Diesel			
15	900	*Above Ground* Solvent			
w.h.	550	*Above Ground* Solvent			
17	550	*WASTE OIL*			
	550	*Above Ground* Kerosene			
	1000	*Above Ground* Kerosene			
w.h.	1000	*Above Ground* Kerosene			
	500	*VP Race Gas*			

11427 Woodside Avenue, Santee, CA 92071
619-258-7113 Fax 619-258-5993

El Capitan Oil Co.
Santee, Ca. 92071

Date: _____

Pump & Product	Ending	Hose	Nozzle	Comments
1				
2				
3. Diesel				
4. Diesel				
5. Super Unl				
6. Unleaded				
7. Diesel				
8. Diesel				
9. Dyed Diesel				
10. Dyed Diesel				
11. Unleaded				
12. Unleaded				
13. Super Unl				
14. Diesel				
15. Diesel				
16. Diesel				

El Capitan Oil Co. Santee, Ca. 92071				
Pump & Product	Ending	Hose	Nozzle	Comments
17. Diesel				
18. Diesel				
19. Unleaded				
20. Super Unl				
21. Diesel				
22. Dyed Diesel				
23. Dyed Diesel				
24. Unleaded				
25. Super Unl				
ECO Trick				
Trick's Trick				
Propane				
Dyed Diesel #1				
Dyed Diesel #2				

ENECOTECH SOUTHWEST, INC.
PHONE CONVERSATION MEMO

DATE: 2/17/03 PROJECT NAME: 1686-001

PROJECT BG/PHASE.: 015

BY: MJG CALL INITIATED BY: MJG

CONVERSATION WITH: Phil Davis

COMPANY/AGENCY: Santee Fire Marshall

PHONE: (619) 258-4100 FAX: ( ) E-Mail: @

x 207 for Secretary or x204 for Fire Marshall

SUMMARY OF CONVERSATION:

Called on Holiday

Called again 2/20 - left VM

He called me back - he has been Fire Marshall for 7 years. Confirmed that Santee doesn't allow gasoline in single wall AST. As far as he knows Santee never has since its corporation in 1980.

ACTION(S) REQUIRED:

1)

2)

3)

4)

FOLLOW-UP CALLS:

Telcon 3/7/97

Call from York Himerdinger (Wright Oil)

Reports that he was wholesale manager for Fiesta Oil, a business name for Wright Oil of Nevada. Operated Woodside Ave terminal. All employees just terminated - no warning. He is going to document his involvement before vacating office.

He says facility suffered a kerosine release recently. Has not been reported yet but he will note it in long letter he is sending to my attention.

I told him about motion to abandon which we received from State Water Board. He was agitated because trustee gave no warning to employee

df

APPENDIX C

FIELD DATA

Boring and Temporary Well Field Procedures
Boring Logs
Temporary Well Gauging Forms
Monitoring Well Gauging Form

BORING AND TEMPORARY WELL FIELD PROCEDURES

DRILLING AND SOIL SAMPLING

Soil borings are drilled using a StrataProbe® rig. The rig is equipped with a hydraulic hammer that drives two-inch diameter steel rods. The rods are steam cleaned between borings to prevent cross contamination.

Soil samples are retrieved using a split spoon sampler fitted with 0.75-inch diameter acetate sleeves, driven into the ground with a hydraulic hammer. One sleeve from each sampling depth is sealed with Teflon tape, capped, labeled, and placed into an ice chest with blue ice or refrigerated at approximately 4° Celsius until transported to a state-certified laboratory.

A second acetate sleeve from each sampling depth is emptied into a zip-lock plastic bag, which is sealed and gently agitated to facilitate volatilization of organic vapors. A portable photo-ionization detector (PID) is used to measure organic vapor concentrations, which are then recorded on the boring logs. The PID has been calibrated with 100 ppm isobutylene.

The scientist in the field uses the remaining recovered sample to describe the soil in accordance with the Unified Soil Classification System (USCS). Additionally, a qualitative characterization of contamination is made based upon any observed petroleum hydrocarbon odors and/or soil discoloration. These observations and USCS descriptions are included in the boring logs, which are reviewed by a California Registered Geologist.

All sampling equipment is washed before sampling in an Alconox solution and thoroughly rinsed. Cleaning rinsate and soil cuttings from drilling operations are contained in labeled 55-gallon DOT-approved drums. Borings are destroyed using bentonite or bentonite grout. The disposition of the soil and the decontamination rinsate depends upon the results of chemical analyses.

Each sample container submitted for analyses has a label affixed with a unique sample designation, job name, date sampled, and time of collection. A chain of custody form is used to document sample possession from the time of collection to the time of delivery to the laboratory. When possession of the samples is transferred, the persons relinquishing and receiving possession sign and date the chain of custody form. The sample control officer at the laboratory verifies sample integrity and confirms that the sample is of sufficient quantity for the requested analyses.

TEMPORARY WELL CONSTRUCTION

Temporary wells are constructed in conformance with the general guidelines of the California Department of Water Resources and the Site Assessment and Mitigation (SAM) Manual according to the site specific permit application that is filed with the SAM. In general, wells are constructed with factory-prepared blank and perforated schedule 40 PVC casing.

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TEMPORARY WELL GAUGING AND SAMPLING

Prior to sampling, static groundwater levels in each temporary well are measured using colorimetric water-sensing paste and a water level probe. Gasoline-sensing paste and water level probe are used to detect and measure any free product.

Groundwater samples are retrieved using a disposable bailer and collected in a minimum of three laboratory-provided Volatile Organic Analysis vials with a Teflon-lined septum. Sample containers are examined to assess that no headspace is present then stored in a chilled ice chest or refrigerated at 4° Celsius until transported to a state-certified laboratory for appropriate chemical analysis. Cross-contamination between wells is avoided by taking a number of precautions, including sampling wells in a specific sequence (cleanest to dirtiest) using disposable or dedicated bailers and new gloves and clean equipment for each well.

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San Diego, California 92120

KEY TO BORING LOGS

Moisture

(Modified from USDA Handbook No 18)

TERM	DRY	DAMP	MOIST	WET	SATURATED
Relative Moisture Content	Equal to Ambient Air	Slightly Moist	Between Damp and Field Capacity	Approximately Field Capacity	Above Field Capacity

Relative Density

(ASTM D-1586)

SANDS, GRAVELS AND NON-PLASTIC SILTS	BLOWS/FOOT*
VERY LOOSE	0 - 4
LOOSE	4 - 10
MEDIUM DENSE	10 - 30
DENSE	30 - 50
VERY DENSE	OVER 50

CLAYS AND PLASTIC SILTS	BLOWS/FOOT*
SOFT	0 - 4
FIRM	4 - 8
STIFF	8 - 16
VERY STIFF	16 - 32
HARD	OVER 32

* Number of blows of 140 pound hammer falling 30 inches to drive a 2 inch O.D. (1-3/8 inch I.D.) split spoon (ASTM D-1586)

Unified Soil Classification System

(ASTM D-2487)

MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAME
COARSE-GRAINED SOILS More than half of material is larger than no. 200 sieve size	GRAVELS More than half of coarse fraction is larger than No. 4 sieve size.	Clean Gravels	GW	Well-graded gravels, gravel-sand mixtures little or no fines.
			GP	Poorly graded gravels, gravel-sand mixtures, little or no fines.
		Gravels with Fines	GM	Silty gravels, gravel-sand-silt mixtures.
			GC	Clayey gravels, gravel-sand-clay mixtures.
	SANDS More than half of coarse fraction is smaller than No. 4 sieve size.	Clean Sands	SW	Well-graded sands, gravelly sands, little or no fines.
			SP	Poorly graded sands, gravelly sands, little or no fines.
		Sands with Fines	SM	Silty sands, sand-silt mixtures.
			SC	Clayey sands, sand-clay mixtures.
FINE-GRAINED SOILS More than half of material is smaller than no. 200 sieve size	SILTS and CLAYS	Low Liquid Limit	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts, with slight plasticity.
			CL	Inorganic clays of low to medium plasticity gravelly clays, sandy clays, silty clays, lean clays.
			OL	Organic silts and organic silty clays of low plasticity.
		High Liquid Limit	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts.
			CH	Inorganic clays of high plasticity, fat clays.
			OH	Organic clays of medium to high plasticity, organic silts.
Highly Organic Soils			Pt	Peat and other highly organic silts.

NOTES:

1. Boundary Classification: Soils possessing characteristics of two groups are designated by combinations of group symbols. For example, GW-GC, well-graded gravel-sand mixture with clay binder.
2. All sieve sizes on this chart are U.S. Standards.
3. The terms "silt" and "clay" are used respectively to distinguish materials exhibiting lower plasticity from those with higher plasticity. The minus No. 200 sieve material is silt if the liquid limit and plasticity index plot below the "A" line on the plasticity chart, and is clay if the liquid limit and plasticity index plot above the "A" line on the chart.

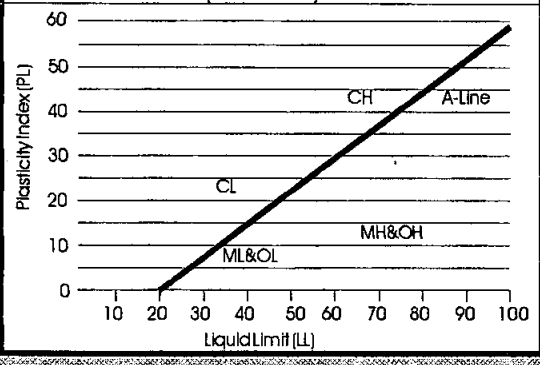
Grain-Size Scale

(ASTM Standards D422-63; D643-78)

GRADE LIMITS mm	GRADE LIMITS inches	U.S. Standard Sieve Series	GRADE NAME
305	12.0		Boulders
76.2	3.0	3.0 in.	Cobbles
4.75	0.19	No. 4	Gravel
2.00	0.08	No. 10	coarse Sand
0.425		No. 40	medium Sand
0.074		No. 200	fine Sand
0.005			Silt
			Clay Size

Soil Plasticity Chart

(ASTM D-2487)



NOTE: Color descriptions on the logs are Munsell colors taken from the Rock Color Chart (Geologic Society of America, 1984)

File No.:	Date:	Approved By:	RG Number:	Figure No.:
02-01686-001	2/2003	MJG	4821	

LOCATION MAP
(Not to scale)

N

See Figure 2 & 3

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San Diego, California 92120

BORING/WELL LOG I.D.: B1

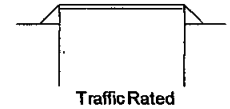
Date(s): 12/3/02		Project Name:	Wigington Petroleum
Start Time: 08:30	Finish Time: 10:25	Project Number:	02-01686-001
Logged By: EK	Drilling Company: HP Labs		Page 1 of 2
Elevation: (ft. amsl) N/A	Vapor Detector: OVM580	Drilling Method: Direct Push	Sampling Method: 24" Split Spoon Sampler

Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type: N/A		Diameter: N/A		Boring Dia.: 2"	Water Initial 32'
Screen Type: N/A	Slot Size: N/A	Diameter: N/A		Total Depth: 40'	Water Final 30.10

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	6" Concrete							
	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to coarse sand (SW). No PHO.							
5	ALLUVIUM: Light brown (5YR5/6), damp, medium to coarse sand (SW). No PHO.			B1-7'	B	0.0	08:44	
	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to coarse sand (SW) with clay binder. No PHO.			B1-8'				
10				B1-9.5' B1-10'	B	0.0	08:50	
15								
20	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to medium sand (SW) with clay binder. No PHO.			B1-20'	B	0.0	09:00	
25				B1-25'	B	0.0	09:09	
30				B1-30'	B	854	09:19	

LEGEND

Sample Type	Screen Type		
Sleeve	A-Ambient	Concrete	Perforations
Grab	B-Bag	Bentonite Seal	Well Casing
Discard	C-Cuttings	Filter Pack	Locking Cap
No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table



Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A1

LOCATION MAP
(Not to scale)



See Figure 2 & 3

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San Diego, California 92120

BORING/WELL LOG I.D.: B1

Date(s): 12/3/02		Project Name:	Wigington Petroleum
Start Time: 08:30	Finish Time: 10:25	Project Number:	02-01686-001
Logged By: EK	Drilling Company: HP Labs	Page 2 of 2	
Elevation: (ft. amsl) N/A	Vapor Detector: OVM580	Drilling Method: Direct Push	Sampling Method: 24" Split Spoon Sampler

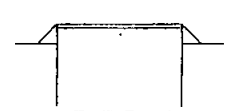
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type: N/A		Diameter: N/A		Boring Dia.: 2"	Water Initial 32'
Screen Type: N/A	Slot Size: N/A	Diameter: N/A		Total Depth: 40'	Water Final 30.10

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30	ALLUVIUM: Light olive gray (5YR3/2), moist, fine to coarse sand (SW). Strong PHO.		⊠	B1-32'	B	2,484	09:31	
	Saturated at 32 ft.		⊠	B1-34'	B	1,680	09:41	
35	Shades to olive gray (5YR3/2) at 34 ft.		⊠	B1-36'	B	105	09:54	
			⊠	B1-38'	B	0.0	10:09	
40			⊠	B1-40'	B	0.0	10:28	
	Total Depth=40 ft.							
45								
50								
55								
60								

LEGEND

Sample Type	Screen Type
⊠ Sleeve	A-Ambient
⊘ Grab	B-Bag
⊘ Discard	C-Cuttings
■ No Recovery	H-Head Space

Concrete
Bentonite Seal
Filter Pack
Contact - Dashed where inferred.
Perforations
Well Casing
Locking Cap
Water Table



Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A1

LOCATION MAP
(Not to scale)



See Figure 2 & 3

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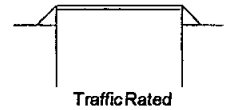
BORING/WELL LOG I.D.: B2

Date(s): 12/3/02		Project Name:	Wigington Petroleum
Start Time: 11:00	Finish Time: 12:30	Project Number:	02-01686-001
Logged By: EK	Drilling Company: HP Labs		Page 1 of 2
Elevation: (ft. amsl) N/A	Vapor Detector: OVM580	Drilling Method: Direct Push	Sampling Method: 24" Split Spoon Sampler
Filter Pack: ____ Bags N/A	Bentonite Seal: 1 Bags Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type: N/A	Diameter: N/A	Boring Dia.: 2"	Water Initial 34'
Screen Type: N/A	Slot Size: N/A Diameter: N/A	Total Depth: 40'	Water Final 30.40

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	6" rock and gravel							
	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to coarse sand (SW). No PHO.							
5			☒	B2-7.0'	B	0.0	11:03	
10			☒	B2-10'	B	0.0	11:06	
15								
20			☒	B2-20'	B	0.0	11:15	
	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to medium sand (SW) with clay binder. No PHO.							
25								
30			☒	B1-30'	B	0.0	11:25	

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A-Ambient	Concrete	Perforations
☒ Grab	B-Bag	Bentonite Seal	Well Casing
☒ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table


Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A2

LOCATION MAP
(Not to scale)



See Figure 2 & 3

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BORING/WELL LOG I.D.: B2

Date(s):	12/3/02			Project Name:	Wigington Petroleum
Start Time:	11:00	Finish Time:	12:30	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	2 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack:	____ Bags	N/A	Bentonite Seal:	1 Bags	Chips
Sanitary Seal:	6" Bags	Concrete			
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	34'				
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	40'	Water Final	30.40		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30								
			⊠	B2-32'	B	7.0	11:36	
	Saturated at 34 ft.		⊠	B2-34'	B	0.0	11:47	
35								
40			⊠	B2-40'	B	0.0	12:08	
45								
50								
55								
60								

LEGEND

Sample Type	Screen Type		
⊠ Sleeve	A-Ambient	Concrete	Perforations
⊠ Grab	B-Bag	Bentonite Seal	Well Casing
⊠ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table

Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A2

LOCATION MAP
(Not to scale)

N

See Figure 2 & 3

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San Diego, California 92120

BORING/WELL LOG I.D.: B3

Date(s):	12/3/02			Project Name:	Wigington Petroleum
Start Time:	12:45	Finish Time:	14:15	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	1 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	32'				
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	40'	Water Final	30.60		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	7" Concrete							
	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to coarse sand (SW). No PHO.							
5			⊠	B3-7'	B	0.0	12:59	
10			⊠	B3-10'	B	0.0	13:02	
15			⊠					
20			⊠	B3-20'	B	7.0	13:10	
	ALLUVIUM: Light olive gray (5YR5/2), damp, fine to coarse sand (SW). Slight PHO.							
25	Strong PHO at 25 ft.		⊠	B3-25'	B	226	13:18	
30	With clay Binder at 30 ft.		⊠	B3-30'	B	354	13:26	

LEGEND

Sample Type	Screen Type		
⊠ Sleeve	A-Ambient	Concrete	Perforations
⊘ Grab	B-Bag	Bentonite Seal	Well Casing
⊘ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table

Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A3

LOCATION MAP
(Not to scale)



See Figure 2 & 3

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6160 Fairmount Ave.
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San Diego, California 92120

BORING/WELL LOG I.D.: B3

Date(s):	12/3/02			Project Name:	Wigington Petroleum
Start Time:	12:45	Finish Time:	14:15	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	2 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	32'				
Screen Type:	N/A	Slot Size: N/A	Diameter: N/A	Total Depth:	40'
Water Final	30.60				

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30	With clay binder at 30 ft.							
	Saturated at 32 ft.		☒	B3-32'	B	1,350	13:34	
			☒	B3-34'	B	1,016	13:45	
35	No PHO at 36 ft.		☒	B3-36'	B	0.0	13:57	
40			☒	B3-40'	B	0.0	14:09	
	Ttotal Depth=40 ft.							
45								
50								
55								
60								

LEGEND

Sample Type
- ☒ Sleeve
- ☑ Grab
- ☒ Discard
- ■ No Recovery

Screen Type
- A-Ambient
- B-Bag
- C-Cuttings
- H-Head Space

- Concrete
- Bentonite Seal
- Filter Pack
- Contact - Dashed where inferred.
- Perforations
- Well Casing
- Locking Cap
- Water Table



Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A3

LOCATION MAP
(Not to scale)



See Figure 2 & 3

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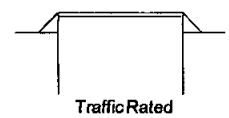
BORING/WELL LOG I.D.: B4

Date(s):	12/3/02			Project Name:	Wigington Petroleum
Start Time:	14:30	Finish Time:	16:15	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	1 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	32'				
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	40'	Water Final	31.85		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	7" Concrete							
	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to coarse sand (SW). No PHO.							
5								
			⊠	B4-7'	B	0.0	14:33	
10			⊠	B4-10'	B	0.0	14:35	
15								
20			⊠	B4-20'	B	0.0	14:43	
	ALLUVIUM: Light olive gray (5YR5/2), damp, fine to coarse sand (SW). Slight PHO.							
25								
30	Strong PHO at 30 ft.		⊠	B4-30'	B	302	14:53	

LEGEND

Sample Type	Screen Type		
⊠ Sleeve	A-Ambient	Concrete	Perforations
⊘ Grab	B-Bag	Bentonite Seal	Well Casing
⊘ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table


Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A4

LOCATION MAP
(Not to scale)

N

See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B4

Date(s): 12/3/02		Project Name: Wigington Petroleum	
Start Time: 14:30	Finish Time: 16:15	Project Number: 02-01686-001	
Logged By: EK	Drilling Company: HP Labs	Page 2 of 2	
Elevation: (ft. amsl) N/A	Vapor Detector: OVM580	Drilling Method: Direct Push	Sampling Method: 24" Split Spoon Sampler

Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type: N/A		Diameter: N/A		Boring Dia.: 2"	Water Initial 32'
Screen Type: N/A	Slot Size: N/A	Diameter: N/A		Total Depth: 40'	Water Final 31.85

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30			☒	B4-32'	B	528	15:03	
	ALLUVIUM: Dusky yellowish brown (10YR2/2), fine to medium sand (SW). Strong PHO.		☒	B4-34'	B	580	15:14	
35	ALLUVIUM: Olive gray (5YR3/2), saturated, coarse sand (SP). Strong PHO.		☒	B4-36'	B	268	15:25	
	Soil black (N1) at 36 ft.		☒	B4-38'	B	0.0	15:36	
	Soil dusky brown at 38 ft.		☒	B4-40'	B	0.0	15:50	
40								
45								
50								
55								
60								

LEGEND

Sample Type	Screen Type	
☒ Sleeve	A - Ambient	Concrete
☒ Grab	B - Bag	Bentonite Seal
☒ Discard	C - Cuttings	Filter Pack
■ No Recovery	H - Head Space	Contact - Dashed where inferred.

Perforations
Well Casing
Locking Cap
Water Table

Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A4

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B5

Date(s): 12/4/02		Project Name: Wigington Petroleum	
Start Time: 07:00	Finish Time: 08:00	Project Number: 02-01686-001	
Logged By: EK	Drilling Company: HP Labs	Page 1 of 1	
Elevation: (ft. amsl) N/A	Vapor Detector: OVM580	Drilling Method: Direct Push	Sampling Method: 24" Split Spoon Sampler
Filter Pack: ____ Bags N/A	Bentonite Seal: 1 Bags Chips	Sanitary Seal: 6" Bags Concrete	
Casing Type: N/A	Diameter: N/A	Boring Dia.: 2"	Water Initial NA
Screen Type: N/A	Slot Size: N/A Diameter: N/A	Total Depth: 28.5'	Water Final NA

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	7" Concrete							
	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to coarse sand (SW) with clay binder. No PHO.							
5			☒	B5-7'	B	0.0	07:12	
10			☒	B5-10'	B	0.0	07:21	
	ALLUVIUM: Dark yellowish brown (10YR4/2), damp, fine to coarse sand (SW). No PHO.							
15								
20			☒	B5-20'	B	0.0	07:30	
	ALLUVIUM: Moderate brown (5YR3/4), damp, fine sandy clay (SC). No PHO.							
25								
	Refusal at 28.5 ft.		☒	B5-28.5'	B	0.0	07:55	
	Total Depth = 28.5 ft.							
30								

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A - Ambient	Concrete	Perforations
☒ Grab	B - Bag	Bentonite Seal	Well Casing
☒ Discard	C - Cuttings	Filter Pack	Locking Cap
■ No Recovery	H - Head Space	Contact - Dashed where inferred.	Water Table



Traffic Rated Well Cover

Drawn By: MJL	Date: December 2002	Approved By: MJG	Date: December 2002	RG Number: 4821	Fig. No.: A5

LOCATION MAP
(Not to scale)

N

See Figure 2 & 3

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STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B6

Date(s): 12/4/02				Project Name: Wigington Petroleum	
Start Time: 09:15		Finish Time: 10:30		Project Number: 02-01686-001	
Logged By: EK		Drilling Company: HP Labs		Page 1 of 2	
Elevation: (ft. amsl) N/A	Vapor Detector: OVM580	Drilling Method: Direct Push		Sampling Method: 24" Split Spoon Sampler	
Filter Pack: ____ Bags N/A	Bentonite Seal: 1 Bags Chips		Sanitary Seal: 6" Bags Concrete		
Casing Type: N/A	Diameter: N/A		Boring Dia.: 2"	Water Initial 32'	
Screen Type: N/A	Slot Size: N/A	Diameter: N/A	Total Depth: 40'	Water Final 30.5'	

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	4" Asphalt							
	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to coarse sand (SW) with clay binder. No PHO.							
5	ALLUVIUM: Dark yellowish brown (10YR4/2), damp, coarse sand (SP). No PHO.							
10								
15								
20								
25								
30			☒	B6-30'	B	0.0	09:30	

LEGEND

Sample Type: ☒ Sleeve; ⧄ Grab; ⧅ Discard; ■ No Recovery

Screen Type: A-Ambient; B-Bag; C-Cuttings; H-Head Space

Concrete; Bentonite Seal; Filter Pack; Contact - Dashed where inferred.

Perforations; Well Casing; Locking Cap; Water Table

Traffic Rated Well Cover

Drawn By: MJL	Date: December 2002	Approved By: MJG	Date: December 2002	RG Number: 4821	Fig. No.: A6

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B6

Date(s):	12/4/02			Project Name:	Wigington Petroleum
Start Time:	09:15	Finish Time:	10:30	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	2 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	32'				
Screen Type:	N/A	Slot Size: N/A	Diameter: N/A	Total Depth:	40'
Water Final	30.5'				

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30	ALLUVIUM: Light olive gray (5YR5/2), moist, coarse sand (SP). Slight PHO.		☒	B6-32'	B	848	09:40	
	Groundwater at 32 ft.		☒	B6-34'	B	1,060	09:50	
35	Strong PHO at 32 and 34 ft.		☒	B6-36'	B	43	10:00	
40			☒	B6-40'	B	0.0	10:11	
	Total Depth=40 ft.							
45								
50								
55								
60								

LEGEND

Sample Type: ☒ Sleeve; ☑ Grab; ☒ Discard; ■ No Recovery

Screen Type: A-Ambient; B-Bag; C-Cuttings; H-Head Space

Concrete; Bentonite Seal; Filter Pack; Contact - Dashed where inferred.

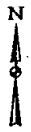
Perforations; Well Casing; Locking Cap; Water Table



Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A6

LOCATION MAP
(Not to scale)



See Figure 2 & 3

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STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B7

Date(s): 12/4/02		Project Name:	Wigington Petroleum
Start Time: 10:45	Finish Time: 12:15	Project Number:	02-01686-001
Logged By: EK	Drilling Company: HP Labs		Page 1 of 2
Elevation: (ft. amsl) N/A	Vapor Detector: OVM580	Drilling Method: Direct Push	Sampling Method: 24" Split Spoon Sampler
Filter Pack: ____ Bags N/A	Bentonite Seal: 1 Bags Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type: N/A	Diameter: N/A	Boring Dia.: 2"	Water Initial 32'
Screen Type: N/A	Slot Size: N/A Diameter: N/A	Total Depth: 40'	Water Final 30.5'

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	4" Asphalt							
	ALLUVIUM: Moderate brown (5YR4/3), damp, fine to coarse sand (SW). No PHO.							
25			☒	B7-25'	B	0.0	11:00	
30	ALLUVIUM: Light olive gray (5YR5/2), damp, coarse sand (SW). Slight PHO.		☒	B7-30'	B	0.0	11:10	

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A-Ambient	Concrete	Perforations
☑ Grab	B-Bag	Bentonite Seal	Well Casing
☒ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table

Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A7

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B7

Date(s):	12/4/02			Project Name:	Wigington Petroleum
Start Time:	10:45	Finish Time:	12:15	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs		Page 2 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	32'				
Screen Type:	N/A	Slot Size: N/A	Diameter: N/A	Total Depth:	40'
Water Final	30.5'				

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30								
			☒	B7-32'	B	0.0	11:18	
35			☒	B6-36'	B	28.0	11:30	
40			☒	B6-40'	B	0.0	11:43	
	Total Depth=40 ft.							
45								
50								
55								
60								

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A-Ambient	Concrete	Perforations
☑ Grab	B-Bag	Bentonite Seal	Well Casing
☒ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table



Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A7

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES
6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B8

Date(s):	12/4/02			Project Name:	Wigington Petroleum
Start Time:	12:30	Finish Time:	14:00	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs		Page 1 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	32'				
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	38'	Water Final	30.5'		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	4" Asphalt							
	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to coarse sand (SW) with clay binders. No PHO.							
25			⊠	B8-25'	B	0.0	13:02	
	ALLUVIUM: Olive gray (5YR3/2), damp, fine to medium sand (SW) with clay binder. Slight PHO.							
30								

LEGEND

Sample Type	Screen Type		
⊠ Sleeve	A-Ambient	Concrete	Perforations
⊘ Grab	B-Bag	Bentonite Seal	Well Casing
⊘ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table


Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A8

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES
6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

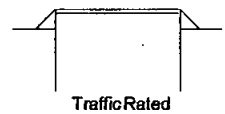
BORING/WELL LOG I.D.: B8

Date(s):	12/4/02			Project Name:	Wigington Petroleum
Start Time:	12:30	Finish Time:	14:00	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs		Page 2 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack:	____ Bags N/A	Bentonite Seal:	1 Bags Chips	Sanitary Seal:	6" Bags Concrete
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	32'				
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	38'	Water Final	30.5'		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30	Saturated at 32 ft.		☒	B8-32'	B	782	13:12	
	Strong PHO at 32 ft.		☒	B8-34'	B	1,680	13:21	
35	Slight PHO at 36 ft.		☒	B8-36'	B	0.0	13:30	
	No odor at 38 ft.		☒	B8-38'	B	0.0	13:41	
	Total Depth=38 ft.							
40								
45								
50								
55								
60								

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A-Ambient	Concrete	Perforations
☑ Grab	B-Bag	Bentonite Seal	Well Casing
☒ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table


Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A8

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES
6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B9

Date(s):	12/4/02			Project Name:	Wigington Petroleum
Start Time:	14:00	Finish Time:	15:30	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	1 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580		
Drilling Method:	Direct Push	Sampling Method:	24" Split Spoon Sampler		
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Screen Type:	N/A	Slot Size: N/A	Diameter: N/A	Total Depth:	40'
				Water Initial	33'
				Water Final	30.5'

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	4" Asphalt							
	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to coarse sand (SW) with clay binders. No PHO.							
25			⊠	B9-25'	B	0.0	14:38	
	ALLUVIUM: Olive gray (5YR3/2), damp, fine to coarse sand (SW) with trace clay binder. Slight PHO.							
30	Slight PHO and moist soil at 31 ft.		⊠	B9-31'	B	0.0	14:17	

LEGEND

Sample Type	Screen Type		
⊠ Sleeve	A-Ambient	Concrete	Perforations
⊘ Grab	B-Bag	Bentonite Seal	Well Casing
⊘ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table



Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A9

LOCATION MAP
(Not to scale)

N

See Figure 2 & 3

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STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B9

Date(s): 12/4/02		Project Name:	Wigington Petroleum
Start Time: 14:00	Finish Time: 15:30	Project Number:	02-01686-001
Logged By: EK	Drilling Company: HP Labs	Page 2 of 2	
Elevation: (ft. amsl) N/A	Vapor Detector: OVM580	Drilling Method: Direct Push	Sampling Method: 24" Split Spoon Sampler

Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type: N/A		Diameter: N/A		Boring Dia.: 2"	Water Initial 33'
Screen Type: N/A	Slot Size: N/A	Diameter: N/A		Total Depth: 40'	Water Final 30.5'

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30								
	Saturated soil and strong PHO at 33 ft.		⊠	B9-33'	B	609	14:55	
35	Slight weathered fuel odor at 35 ft.		⊠	B9-35'	B	26	15:06	
40			⊠	B9-40'	B	0.0	15:18	
	Total Depth=40 ft.							
45								
50								
55								
60								

LEGEND

Sample Type	Screen Type		
⊠ Sleeve	A-Ambient	Concrete	Perforations
⊠ Grab	B-Bag	Bentonite Seal	Well Casing
⊠ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table

Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A9

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES
6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B10

Date(s):	12/5/02			Project Name:	Wigington Petroleum
Start Time:	09:00	Finish Time:	10:30	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs		Page 1 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: ____ Bags	
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	32'				
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	40'	Water Final	31.5'		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to coarse sand (SW) with clay binder. No PHO.							
5			☒	B10-7'	B	0.0	09:00	
10			☒	B10-10'	B	0.0	09:06	
15			☒	B10-15'	B	0.0	09:12	
	ALLUVIUM: Dark yellowish brown (10YR4/2), damp, fine to coarse sand (SW). No PHO.							
20			☒	B10-20'	B	0.0	09:19	
25								
			☒	B10-27'	B	0.0	09:30	
			☒	B10-29'	B	0.0	09:38	
30			☒	B10-30'	B	0.0	09:47	

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A-Ambient	Concrete	Perforations
⧄ Grab	B-Bag	Bentonite Seal	Well Casing
⧅ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table


Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A10

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B10

Date(s):	12/5/02			Project Name:	Wigington Petroleum
Start Time:	09:00	Finish Time:	10:30	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	2 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: ____ Bags	
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	32'				
Screen Type:	N/A	Slot Size: N/A	Diameter: N/A	Total Depth:	40'
Water Final	31.5'				

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30	Saturated at 32 ft.		☒	B10-32'	B	0.0	09:58	
			☒	B10-34'	B	0.0	10:00	
35								
40			☒	B10-40'	B	0.0	10:20	
	Total Depth=40 ft.							
45								
50								
55								
60								

LEGEND

Sample Type
- ☒ Sleeve
- ☒ Grab
- ☒ Discard
- ■ No Recovery

Screen Type
- A - Ambient
- B - Bag
- C - Cuttings
- H - Head Space

- Concrete
- Bentonite Seal
- Filter Pack
- Contact - Dashed where inferred.
- Perforations
- Well Casing
- Locking Cap
- Water Table



Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A10

LOCATION MAP
(Not to scale)

N

See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B11

Date(s): 12/5/02				Project Name: Wigington Petroleum	
Start Time: 10:45		Finish Time: 12:25		Project Number: 02-01686-001	
Logged By: EK		Drilling Company: HP Labs		Page 1 of 2	
Elevation: (ft. amsl) N/A	Vapor Detector: OVM580	Drilling Method: Direct Push		Sampling Method: 24" Split Spoon Sampler	
Filter Pack: ____ Bags N/A		Bentonite Seal: 1 Bags Chips		Sanitary Seal: ____ Bags	
Casing Type: N/A		Diameter: N/A		Boring Dia.: 2"	Water Initial 32'
Screen Type: N/A	Slot Size: N/A	Diameter: N/A		Total Depth: 45'	Water Final 31.4'

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to coarse sand (SW) with clay binder. No PHO.							
25			☒	B11-27'	B	0.0	11:00	
	ALLUVIUM: Dark yellowish brown (10YR4/2), damp, fine to medium sand (SW) trace clay. No PHO.							
30			☒	B11-31'	B	0.0	11:17	

LEGEND

Sample Type
- ☒ Sleeve
- ⧄ Grab
- ⧅ Discard
- ■ No Recovery

Screen Type
- A - Ambient
- B - Bag
- C - Cuttings
- H - Head Space

- Concrete
- Bentonite Seal
- Filter Pack
- Contact - Dashed where inferred.
- Perforations
- Well Casing
- Locking Cap
- Water Table



Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A11

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
SITE STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES
6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B11

Date(s):	12/5/02			Project Name:	Wigington Petroleum
Start Time:	10:45	Finish Time:	12:25	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	2 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580		
Drilling Method:	Direct Push	Sampling Method:	24" Split Spoon Sampler		
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: ____ Bags	
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Screen Type:	N/A	Slot Size: N/A	Diameter: N/A	Total Depth:	45'
Water Initial	32'				
Water Final	31.4'				

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30								
35			☒	B11-36'	B	7.0	11:30	
	Saturated at 36 ft.							
40	ALLUVIUM: Olive gray (5YR3/2), saturated, fine to coarse sand (SW) with clay. Slight weathered fuel.		☒	B11-40'	B	23.0	11:43	
	No fuel odor at 45 ft.							
45			☒	B11-45'	B	0.0	12:02	
	Total Depth=45 ft.							
50								
55								
60								

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A-Ambient	Concrete	Perforations
⧄ Grab	B-Bag	Bentonite Seal	Well Casing
⧅ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table

Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A11

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B12

Date(s): 12/5/02		Project Name: Wigington Petroleum	
Start Time: 13:00	Finish Time: 15:15	Project Number: 02-01686-001	
Logged By: EK	Drilling Company: HP Labs	Page 1 of 2	
Elevation: (ft. amsl) N/A	Vapor Detector: OVM580	Drilling Method: Direct Push	Sampling Method: 24" Split Spoon Sampler

Filter Pack: ____ Bags N/A	Bentonite Seal: 1 Bags Chips	Sanitary Seal: ____ Bags	
Casing Type: N/A	Diameter: N/A	Boring Dia.: 2"	Water Initial 32'
Screen Type: N/A	Slot Size: N/A Diameter: N/A	Total Depth: 44'	Water Final 31.58'

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	ALLUVIUM: Dark yellowish brown (10YR4/2), damp, fine to coarse sand (SW) with clay binder. No PHO.							
5								
10								
15								
20								
25			☒	B12-27'	B	0.0	13:13	
30								

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A - Ambient	Concrete	Perforations
☐ Grab	B - Bag	Bentonite Seal	Well Casing
☐ Discard	C - Cuttings	Filter Pack	Locking Cap
■ No Recovery	H - Head Space	Contact - Dashed where inferred.	Water Table

Traffic Rated Well Cover

Drawn By: MJL	Date: December 2002	Approved By: MJG	Date: December 2002	RG Number: 4821	Fig. No.: A12

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES
6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B12

Date(s):	12/5/02			Project Name:	Wigington Petroleum
Start Time:	13:00	Finish Time:	15:15	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	2 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: ____ Bags	
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	32'				
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	44'	Water Final	31.58'		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30			☒	B12-32'	B	0.0	13:22	
			☒	B12-34'	B	0.0	13:33	
35	ALLUVIUM: Olive gray (5YR3/2), saturated, coarse sand (SP). Slight PHO.		☒	B12-36'	B	628	13:48	
	Strong PHO at 36 ft.		☒	B12-38'	B	7.0	14:00	
40	Slight odor at 36 ft.		☒	B12-40'	B	24.0	14:13	
			☒	B12-42'	B	2.4	14:30	
			☒	B12-44'	B	0.0	14:50	
45	Total Depth=44 ft.							
50								
55								
60								

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A-Ambient	Concrete	Perforations
☒ Grab	B-Bag	Bentonite Seal	Well Casing
☒ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table

Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A12

LOCATION MAP
(Not to scale)

N

See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B13

Date(s):	12/5/02			Project Name:	Wigington Petroleum
Start Time:	15:45	Finish Time:	17:00	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs		Page 1 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: ____ Bags	
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	32'				
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	45'	Water Final	30.10'		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	ALLUVIUM: Moderate brown (5YR3/4), damp, fine to coarse sand (SW) with clay binder. No PHO.							
5								
10								
15								
20								
25			⊠	B13-25'	B	0.0	15:51	
30	ALLUVIUM: Olive gray (5YR3/2), damp, fine to coarse sand (SW). Strong PHO at 30 ft..		⊠	B13-30'	B	0.0	16:00	

LEGEND

Sample Type
- ⊠ Sleeve
- ⊘ Grab
- ⊘ Discard
- ■ No Recovery

Screen Type
- A-Ambient
- B-Bag
- C-Cuttings
- H-Head Space

- Concrete
- Bentonite Seal
- Filter Pack
- Contact - Dashed where inferred.
- Perforations
- Well Casing
- Locking Cap
- Water Table

Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A13

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES
6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B13

Date(s):	12/5/02			Project Name:	Wigington Petroleum
Start Time:	15:45	Finish Time:	17:00	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	2 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack:	____ Bags N/A	Bentonite Seal:	1 Bags Chips	Sanitary Seal:	____ Bags
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	32'				
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	45'	Water Final	30.10'		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30								
35	Saturated at 35 ft. Strong PHO.		☒	B13-35'	B	43	16:09	
40	Slight odor at 40 ft.		☒	B13-40'	B	0.0	16:21	
45	No odor at 45 ft.		☒	B13-45'	B	0.0	16:40	
	Total depth=45 ft.							
50								
55								
60								

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A-Ambient	Concrete	Perforations
☒ Grab	B-Bag	Bentonite Seal	Well Casing
☒ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table

Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A13

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
SITE STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES
6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

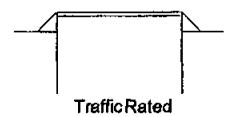
BORING/WELL LOG I.D.: B14

Date(s):	12/6/02			Project Name:	Wigington Petroleum
Start Time:	07:15	Finish Time:	08:30	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs		Page 1 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: 6" Bags	Concrete
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	30'				
Screen Type:	N/A	Slot Size: N/A	Diameter:	N/A	Total Depth: 37'
Water Final	32.5'				

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	Concrete 6" thick							
	ALLUVIUM: Moderate brown (5YR4/8), damp, fine to coarse sand (SW) with clay binder. No PHO.							
5			☒	B14-7'	B	0.0	07:23	
10			☒	B14-10'	B	0.0	07:26	
	ALLUVIUM: Dark yellowish brown (10YR4/2), damp, medium to coarse sand (SW). No PHO.							
15								
20			☒	B14-20'	B	0.0	07:34	
	ALLUVIUM: Moderate brown (5YR4/3), damp, fine to coarse sand (SW) with clay binder. Slight weathered PHO.							
25			☒	B14-25'	B	223	07:41	
	Moist to saturated at 30 ft..							
30			☒	B14-30'	B	29.0	07:50	

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A-Ambient	Concrete	Perforations
☒ Grab	B-Bag	Bentonite Seal	Well Casing
☒ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table


Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A14

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B14

Date(s):	12/6/02			Project Name:	Wigington Petroleum
Start Time:	07:15	Finish Time:	08:30	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	2 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: ____ Bags	
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	30'				
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	37'	Water Final	32.5'		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30								
35			⊠	B14-35'	B	0.0	08:03	
			⊠	B14-37'	B	0.0	08:14	
	Total Depth=37 ft.							
40								
45								
50								
55								
60								

LEGEND

Sample Type
- ⊠ Sleeve
- ⊘ Grab
- ⊘ Discard
- ■ No Recovery

Screen Type
- A-Ambient
- B-Bag
- C-Cuttings
- H-Head Space

- Concrete
- Bentonite Seal
- Filter Pack
- Contact - Dashed where inferred.
- Perforations
- Well Casing
- Locking Cap
- Water Table



Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A14

LOCATION MAP
(Not to scale)



See Figure 2 & 3

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STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B15

Date(s):	12/6/02			Project Name:	Wigington Petroleum
Start Time:	08:50	Finish Time:	10:30	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	1 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: ____ Bags	
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	33'				
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	38'	Water Final	31.00'		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	ALLUVIUM: Moderate brown (5YR3/4), damp, medium to coarse sand (SW) with clay binder. No PHO.							
5								
10								
15								
20								
25								
30								

LEGEND

Sample Type	Screen Type	
Sleeve	A-Ambient	Concrete
Grab	B-Bag	Bentonite Seal
Discard	C-Cuttings	Filter Pack
No Recovery	H-Head Space	Contact - Dashed where inferred.

Perforations
Well Casing
Locking Cap
Water Table



Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A15

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

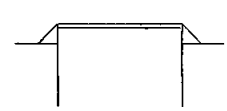
BORING/WELL LOG I.D.: B15

Date(s):	12/6/02			Project Name:	Wigington Petroleum
Start Time:	08:50	Finish Time:	10:30	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	2 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580		
Drilling Method:	Direct Push	Sampling Method:	24" Split Spoon Sampler		
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: ____ Bags	
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Screen Type:	N/A	Slot Size: N/A	Diameter: N/A	Total Depth:	38'
Water Initial	33'				
Water Final	31.00'				

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30	Saturated.		☒	B15-32'	B	0.0	09:33	
			☒	B15-33'	B	0.0	09:41	
			☒	B15-34'				
35			☒	B15-35'	B	0.0	09:56	
			☒	B15-36'				
	Soil at 38 ft. Slightly discolored. No PHO.		☒	B15-38'	B	0.0	10:05	
	Total Depth=38 ft.							
40								
45								
50								
55								
60								

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A-Ambient	Concrete	Perforations
☒ Grab	B-Bag	Bentonite Seal	Well Casing
☒ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table



Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A15

LOCATION MAP
(Not to scale)

N

See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B16

Date(s):	12/6/02			Project Name:	Wigington Petroleum
Start Time:	11:00	Finish Time:	12:30	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	1 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack:	____ Bags N/A	Bentonite Seal:	1 Bags Chips	Sanitary Seal:	____ Bags
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	31'				
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	45'	Water Final	30.79'		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	ALLUVIUM: Moderate brown (5YR3/4), damp, medium to coarse sand (SW) with clay binder. No PHO.							
5								
10								
15								
20								
25								
30	ALLUVIUM: Dark yellowish brown (10YR4/2), medium sand No PHO.		☒	B16-29'	B	0.0	11:24	

LEGEND

Sample Type: ☒ Sleeve; ☐ Grab; ☐ Discard; ■ No Recovery

Screen Type: A-Ambient; B-Bag; C-Cuttings; H-Head Space

Concrete; Bentonite Seal; Filter Pack; Contact - Dashed where inferred.

Perforations; Well Casing; Locking Cap; Water Table

Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A16

LOCATION MAP
(Not to scale)

N

See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B16

Date(s): 12/6/02		Project Name:	Wigington Petroleum
Start Time: 11:00	Finish Time: 12:30	Project Number:	02-01686-001
Logged By: EK	Drilling Company: HP Labs	Page 2 of 2	
Elevation: (ft. amsl) N/A	Vapor Detector: OVM580	Drilling Method: Direct Push	Sampling Method: 24" Split Spoon Sampler
Filter Pack: ____ Bags N/A	Bentonite Seal: 1 Bags Chips	Sanitary Seal: ____ Bags	
Casing Type: N/A	Diameter: N/A	Boring Dia.: 2"	Water Initial 31'
Screen Type: N/A	Slot Size: N/A Diameter: N/A	Total Depth: 45'	Water Final 30.79'

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30	Saturated at 32 ft.		☒	B16-31'	B	0.0	11:35	
			☒	B16-32'	B	0.0	11:46	
			☒	B16-33'				
35			☒	B16-35'	B	0.0	11:57	
40	Limited sample at 40 ft.		☒	B16-40'	B	0.0	12:10	
			☒	B16-44'	B	0.0	12:25	
45	Total Depth=45 ft.		☒	B16-45'				
50								
55								
60								

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A-Ambient	Concrete	Perforations
☒ Grab	B-Bag	Bentonite Seal	Well Casing
☒ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table

Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A16

LOCATION MAP
(Not to scale)

N

See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B17

Date(s): 12/6/02		Project Name:	Wigington Petroleum
Start Time: 13:30	Finish Time: 15:00	Project Number:	02-01686-001
Logged By: EK	Drilling Company: HP Labs	Page	1 of 2
Elevation: (ft. amsl) N/A	Vapor Detector: OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler		
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips
Sanitary Seal: ____ Bags			
Casing Type: N/A	Diameter: N/A	Boring Dia.:	2"
Water Initial	32'		
Screen Type: N/A	Slot Size: N/A	Diameter: N/A	Total Depth: 40'
Water Final	30.62'		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	6" concrete							
	ALLUVIUM: Black (N1), saturated (with oily fluid).							
	ALLUVIUM: Moderate brown (5 YR 3/4), damp, medium sand (SP) with clay binder. Slight PHO.							
5			☒	B17-7'	B	66.0	13:35	
	ALLUVIUM: Light olive gray (5 YR 3/4), damp, medium to coarse sand (SW). Slight PHO.							
10			☒	B17-10'	B	9.7	13:37	
15			☒	B17-15'	B	0.0	13:43	
20	Slight PHO at 20 ft.		☒	B17-20'	B	7.0	13:49	
25	Slight PHO at 25 ft.		☒	B17-25'	B	0.0	13:56	
30	Strong PHO at 30 ft.		☒	B17-30'	B	590	14:05	

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A - Ambient	Concrete	Perforations
☒ Grab	B - Bag	Bentonite Seal	Well Casing
☒ Discard	C - Cuttings	Filter Pack	Locking Cap
■ No Recovery	H - Head Space	Contact - Dashed where inferred.	Water Table

Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A17

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B17

Date(s):	12/6/02			Project Name:	Wigington Petroleum
Start Time:	13:30	Finish Time:	15:00	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	2 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack: ____ Bags	N/A	Bentonite Seal: 1 Bags	Chips	Sanitary Seal: ____ Bags	
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial	32'				
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	40'	Water Final	30.62'		

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30	Strong PHO at 32 and 34 ft.		☒	B17-32'	B	648	14:19	
			☒	B17-34'	B	754	14:23	
35			☒	B17-36'	B	0.0	14:37	
	ALLUVIUM: Moderate brown (5 YR3/4), saturated, coarse sand (SW). No PHO.		☒	B17-40'	B	0.0	14:50	
40	Total Depth=40 ft.							
45								
50								
55								
60								

LEGEND

Sample Type	Screen Type		
☒ Sleeve	A-Ambient	Concrete	Perforations
☒ Grab	B-Bag	Bentonite Seal	Well Casing
☒ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table

Traffic Rated Well Cover

Drawn By:	MJL	Date:	December 2002	Approved By:	MJG	Date:	December 2002	RG Number:	4821	Fig. No.:	A17

LOCATION MAP
(Not to scale)

N

See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B18

Date(s): 12/6/02		Project Name: Wigington Petroleum	
Start Time: 15:00	Finish Time: 16:30	Project Number: 02-01686-001	
Logged By: EK	Drilling Company: HP Labs	Page 1 of 2	
Elevation: (ft. amsl) N/A	Vapor Detector: OVM580	Drilling Method: Direct Push	Sampling Method: 24" Split Spoon Sampler
Filter Pack: ____ Bags N/A	Bentonite Seal: 1 Bags Chips	Sanitary Seal: ____ Bags	
Casing Type: N/A	Diameter: N/A	Boring Dia.: 2"	Water Initial
Screen Type: N/A	Slot Size: N/A Diameter: N/A	Total Depth: 40'	Water Final 32.84'

Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
0	ALLUVIUM: Moderate brown (5 YR3/4), damp, medium sand (SP) with clay binder. No PHO.							
5			⊠	B18-5'	B	0.0	15:26	
10			⊠	B18-10'	B	0.0	15:30	
15			⊠	B18-15'	B	0.0	15:34	
20			⊠	B18-20'	B	0.0	15:40	
25			⊠	B18-25'	B	0.0	15:48	
30								

LEGEND

Sample Type	Screen Type		
⊠ Sleeve	A-Ambient	Concrete	Perforations
⊘ Grab	B-Bag	Bentonite Seal	Well Casing
⊘ Discard	C-Cuttings	Filter Pack	Locking Cap
■ No Recovery	H-Head Space	Contact - Dashed where inferred.	Water Table

Traffic Rated Well Cover

Drawn By: MJL	Date: December 2002	Approved By: MJG	Date: December 2002	RG Number: 4821	Fig. No.: A18

LOCATION MAP
(Not to scale)



See Figure 2 & 3

EnecoTech®
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITIES

6160 Fairmount Ave.
Suite "A"
San Diego, California 92120

BORING/WELL LOG I.D.: B18

Date(s):	12/6/02			Project Name:	Wigington Petroleum
Start Time:	15:00	Finish Time:	16:30	Project Number:	02-01686-001
Logged By:	EK	Drilling Company:	HP Labs	Page	2 of 2
Elevation: (ft. amsl)	N/A	Vapor Detector:	OVM580	Drilling Method:	Direct Push
Sampling Method:	24" Split Spoon Sampler				
Filter Pack:	____ Bags	N/A	Bentonite Seal:	1 Bags	Chips
Sanitary Seal:	____ Bags				
Casing Type:	N/A	Diameter:	N/A	Boring Dia.:	2"
Water Initial					
Screen Type:	N/A	Slot Size:	N/A	Diameter:	N/A
Total Depth:	40'	Water Final	32.84'		

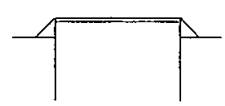
Depth (feet)	LITHOLOGIC DESCRIPTION UNIT: Color, moisture, rel. density, texture (USCS Symbol), details. Odor, variations.	Sample Depth /Blows	Sample Type	Sample Designation	Screen Type	Screen Vapor (ppm)	Time	Boring/Well Completion
30			☒	B18-32'	B	38.0	15:59	
			☒	B18-34'	B	18.0	16:04	
35	Soil moist at 36 ft.		☒	B18-36'	B	7.0	16:19	
	Sandy clay (CL) at 36-40 ft.		☒	B18-40'	B	0.0	16:25	
40	Total Depth=40 ft.							
45								
50								
55								
60								

LEGEND

Sample Type
- ☒ Sleeve
- ☑ Grab
- ☒ Discard
- ■ No Recovery

Screen Type
- A - Ambient
- B - Bag
- C - Cuttings
- H - Head Space

- Concrete
- Bentonite Seal
- Filter Pack
- Contact - Dashed where inferred.
- Perforations
- Well Casing
- Locking Cap
- Water Table



Traffic Rated Well Cover

Drawn By:	Date:	Approved By:	Date:	RG Number:	Fig. No.:
MJL	December 2002	MJG	December 2002	4821	A18

Bold Column Headings = Minimum Items to be entered in field

ENECOTECH SOUTHWEST, INC.
Monitoring Well Gauging Form

Project No.: 02-01086-001 Project Name: Wigington Gauged by: MJG/EK Date: 12/3/02 - 12/6/02

Well ID	Casing Elevation (ft above msl)	Depth to Water (feet)	Total Casing Depth (feet)	Sediment (feet)	Groundwater Elevation (GE) (ft above msl)	Depth to Product (feet)	Product Thickness (FP) (feet)	Corrected Groundwater ~~Elevation (CGE)~~ Depth to (ft above msl)
B1	—	30.00	40.00	—	—	—	0.0	30.00
B2	—	30.26	40.00	—	—	—	0.0	32.26
B3	—	30.35	40.00	—	—	30.19	0.17	30.48
B4	—	32.10	40.00	—	—	31.39	0.71	32.67
B5	—	—	28.50	—	—	—	—	— Dry
B6	—	31.75	40.00	—	—	—	0.0	31.75
B7	—	30.82	40.00	—	—	—	0.0	30.82
B8	—	30.90	38.00	—	—	—	0.0	30.90
B9	—	30.45	40.00	—	—	—	0.0	30.45
B10	—	31.60	40.00	—	—	—	0.0	31.60
B11	—	31.85	40.00	—	—	—	0.0	31.85
B12	—	32.05	40.00	—	—	—	0.0	32.05
B13	—	30.25	40.00	—	—	30.12	0.13	30.35
B14	—	30.84	37.00	—	—	—	0.0	30.84

*Water level correction based on free product depressing water table.

Equation: GE + (FP X SG/SG$_w$) = CGE
Where:
GE = Measured Water Level
FP = Free Product Thickness
CGE = Corrected Water Level

Specific Gravities (unitless)
SG$_f$ = free product = 0.8
SG$_w$ = water = 1.0
SG/SG$_w$ = 0.8

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April 7, 1993

[redacted] Co[redacted] He[redacted]s = [redacted]

Minimum items to be entered in field

ENECOTECH SOUTHWEST, INC.
Monitoring Well Gauging Form

Sheet No. 2 of 2

Project No.: 02-01686-001 Project Name: Wigington Gauged by: MJG/EK Date: 12/6/02

Well ID	Casing Elevation (ft above msl)	Depth to Water (feet)	Total Casing Depth (feet)	Sediment (feet)	Groundwater Elevation (GE) (ft above msl)	Depth to Product (feet)	Product Thickness (FP) (feet)	Corrected Depth to Groundwater ~~Elevation (CGE)~~ (ft above msl)
B15	—	31.27	38.00	—	—	—	0.0	31.27
B16	—	31.69	38.00	—	—	—	0.0	31.69
B17	—	30.62	36.00	—	—	30.52	0.10	30.70
B18	—	32.84	40.00	—	—	—	0.0	32.84

*Water level correction based on free product depressing water table.

Equation: GE + (FP X SG/SG$_w$) = CGE
Where: GE = Measured Water Level
FP = Free Product Thickness
CGE = Corrected Water Level

Specific Gravities (unitless)
SG$_f$ = free product = 0.8
SG$_w$ = water = 1.0
SG/SG$_w$ = 0.8

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April 7, 1993

Minimum items to be entered in field

ENECOTECH SOUTHWEST, INC.
Monitoring Well Gauging Form

Sheet No. 1 of 1

Project No.: 02-01686-001 Project Name: Wigington Gauged by: ML Date: 12/3/02

Well ID	Casing Elevation (ft above msl)	Depth to Water (feet)	Total Casing Depth (feet)	Sediment (feet)	Groundwater Elevation (GE) (ft above msl)	Depth to Product (feet)	Product Thickness (FP) (feet)	Corrected Groundwater Elevation (CGE) (ft above msl)
MW1	362.84	30.19	46.00	—	332.65	—	0.0	332.65
MW2	365.08	31.90	46.00	—	333.18	31.83	0.07	333.22
MW3	364.16	31.70	44.00	—	332.46	31.22	0.48	332.84
MW4	362.38	29.50	44.00	—	332.88	29.41	0.09	332.95
MW5	363.42	30.50	—	—	332.92	—	0.0	332.92
MW6	362.44	29.75	42.00	—	332.69	—	0.0	332.69
MW7	362.97	29.45	42.00	—	333.12	—	0.0	333.12
MW8	364.51	31.70	40.00	—	332.81	—	0.0	332.81

*Water level correction based on free product depressing water table.

Equation: GE + (FP X SO/SG$_w$) = CGE
Where:
GE = Measured Water Level
FP = Free Product Thickness
CGE = Corrected Water Level

Specific Gravities (unitless)
SO$_f$ = free product = 0.8
SO$_w$ = water = 1.0
SO/SG$_w$ = 0.8

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April 7, 1993

APPENDIX D

LABORATORY REPORTS

Soil and Temporary Well Groundwater TPHg and TPHd by CADHS LUFT

Soil and Temporary Well Groundwater BTEX and MTBE by EPA 8021B

Soil and Temporary Well Groundwater BTEX and MTBE by EPA 8260B

Quality Control and Chain of Custody Forms

Soil and Temporary Well Groundwater TPHg and TPHd by CADHS LUFT

HP LABS

30 December 2002

Mr. Mike Gibbs
EnecoTech
6160 Fairmount Ave., Suite A
San Diego, CA 92120

RE: ETIC120302-L3

Enclosed are the results of analyses for samples received by the laboratory on 12/3/2002 -12/10/2002. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tamara Davis

Tamara Davis
Laboratory Director

148 S. Vinewood Street • Escondido, CA 92029 • Phone (760) 735-3208 • Fax (760) 735-2469
432 N. Cedros Avenue • Solana Beach, CA 92075 • Phone (858) 793-0401 • Fax (858) 793-0404
2373 208th Street Suite F-1 • Torrance, CA 90501 • Phone (310) 782-2929 • Fax (310) 782-2798

NARRATIVE

Client: EnecoTech
Project: 686-001, Task BG 014

Date Analyzed: December 3 through December 17, 2002

Samples B3-FP, B4-FP, MW3-FP, and MW4-FP were analyzed for qualitative purposes only. A review of the TPH chromatograms for these four samples suggest a mixture of weathered gasoline, diesel #1 and diesel #2.

Project: ETIC120302-L3

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 686-001, Task BG 014 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B1-25	3212006-01	Soil	03-Dec-02	03-Dec-02
B1-30	3212006-02	Soil	03-Dec-02	03-Dec-02
B1-32	3212006-03	Soil	03-Dec-02	03-Dec-02
B1-34	3212006-04	Soil	03-Dec-02	03-Dec-02
B1-36	3212006-05	Soil	03-Dec-02	03-Dec-02
B1-38	3212006-06	Soil	03-Dec-02	03-Dec-02
B1-20	3212006-11	Soil	03-Dec-02	03-Dec-02
B2-30	3212006-16	Soil	03-Dec-02	03-Dec-02
B2-32	3212006-17	Soil	03-Dec-02	03-Dec-02
B2-34	3212006-18	Soil	03-Dec-02	03-Dec-02
B2-40	3212006-19	Soil	03-Dec-02	03-Dec-02
B3-7	3212006-20	Soil	03-Dec-02	03-Dec-02
B3-10	3212006-21	Soil	03-Dec-02	03-Dec-02
B3-20	3212006-22	Soil	03-Dec-02	03-Dec-02
B3-25	3212006-23	Soil	03-Dec-02	03-Dec-02
B3-30	3212006-24	Soil	03-Dec-02	03-Dec-02
B3-32	3212006-25	Soil	03-Dec-02	03-Dec-02
B3-34	3212006-26	Soil	03-Dec-02	03-Dec-02
B3-36	3212006-27	Soil	03-Dec-02	03-Dec-02
B3-40	3212006-28	Soil	03-Dec-02	03-Dec-02
B4-7	3212006-29	Soil	03-Dec-02	03-Dec-02
B4-10	3212006-30	Soil	03-Dec-02	03-Dec-02
B4-20	3212006-31	Soil	03-Dec-02	03-Dec-02
B4-30	3212006-32	Soil	03-Dec-02	03-Dec-02
B4-32	3212006-33	Soil	03-Dec-02	03-Dec-02
B4-34	3212006-34	Soil	03-Dec-02	03-Dec-02

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 686-001, Task BG 014	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B4-36	3212006-35	Soil	03-Dec-02	03-Dec-02
B4-38	3212006-36	Soil	03-Dec-02	03-Dec-02
B4-40	3212006-37	Soil	03-Dec-02	03-Dec-02
B6-30	3212010-01	Soil	04-Dec-02	04-Dec-02
B6-32	3212010-02	Soil	04-Dec-02	04-Dec-02
B6-34	3212010-03	Soil	04-Dec-02	04-Dec-02
B6-36	3212010-04	Soil	04-Dec-02	04-Dec-02
B6-40	3212010-05	Soil	04-Dec-02	04-Dec-02
B5-20	3212010-08	Soil	04-Dec-02	04-Dec-02
B5-28.5	3212010-09	Soil	04-Dec-02	04-Dec-02
B1	3212010-10	Water	04-Dec-02	04-Dec-02
B3	3212010-11	Water	04-Dec-02	04-Dec-02
B4	3212010-12	Water	04-Dec-02	04-Dec-02
B6-33	3212010-13	Soil	04-Dec-02	04-Dec-02
B2	3212010-14	Water	04-Dec-02	04-Dec-02
B7-25	3212010-15	Soil	04-Dec-02	04-Dec-02
B7-30	3212010-16	Soil	04-Dec-02	04-Dec-02
B7-32	3212010-17	Soil	04-Dec-02	04-Dec-02
B7-36	3212010-18	Soil	04-Dec-02	04-Dec-02
B7-40	3212010-19	Soil	04-Dec-02	04-Dec-02
B8-25	3212010-20	Soil	04-Dec-02	04-Dec-02
B8-32	3212010-21	Soil	04-Dec-02	04-Dec-02
B8-34	3212010-22	Soil	04-Dec-02	04-Dec-02
B8-36	3212010-23	Soil	04-Dec-02	04-Dec-02
B8-38	3212010-24	Soil	04-Dec-02	04-Dec-02
B7	3212010-25	Water	04-Dec-02	04-Dec-02

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 686-001, Task BG 014	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B6	3212010-26	Water	04-Dec-02	04-Dec-02
B9-25	3212010-27	Soil	04-Dec-02	04-Dec-02
B9-31	3212010-28	Soil	04-Dec-02	04-Dec-02
B9-33	3212010-29	Soil	04-Dec-02	04-Dec-02
B9-35	3212010-30	Soil	04-Dec-02	04-Dec-02
B8	3212010-32	Water	04-Dec-02	04-Dec-02
B9	3212010-33	Water	04-Dec-02	04-Dec-02
B10-30	3212014-07	Soil	05-Dec-02	05-Dec-02
B10-32	3212014-08	Soil	05-Dec-02	05-Dec-02
B10-34	3212014-09	Soil	05-Dec-02	05-Dec-02
B10-40	3212014-10	Soil	05-Dec-02	05-Dec-02
B10	3212014-11	Water	05-Dec-02	05-Dec-02
B11-31	3212014-13	Soil	05-Dec-02	05-Dec-02
B11-36	3212014-14	Soil	05-Dec-02	05-Dec-02
B11-40	3212014-15	Soil	05-Dec-02	05-Dec-02
B11-45	3212014-16	Soil	05-Dec-02	05-Dec-02
B11	3212014-17	Water	05-Dec-02	05-Dec-02
B12-32	3212014-19	Soil	05-Dec-02	05-Dec-02
B12-34	3212014-20	Soil	05-Dec-02	05-Dec-02
B12-36	3212014-21	Soil	05-Dec-02	05-Dec-02
B12-38	3212014-22	Soil	05-Dec-02	05-Dec-02
B13-25	3212015-01	Soil	05-Dec-02	06-Dec-02
B13-30	3212015-02	Soil	05-Dec-02	06-Dec-02
B13-35	3212015-03	Soil	05-Dec-02	06-Dec-02
B13-40	3212015-04	Soil	05-Dec-02	06-Dec-02
B12	3212015-06	Water	06-Dec-02	06-Dec-02

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 686-001, Task BG 014	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B14-25	3212015-10	Soil	06-Dec-02	06-Dec-02
B14-30	3212015-11	Soil	06-Dec-02	06-Dec-02
B14-35	3212015-12	Soil	06-Dec-02	06-Dec-02
B13	3212015-14	Water	06-Dec-02	06-Dec-02
B15-33	3212015-15	Soil	06-Dec-02	06-Dec-02
B15-34	3212015-16	Soil	06-Dec-02	06-Dec-02
B15-35	3212015-17	Soil	06-Dec-02	06-Dec-02
B15-36	3212015-18	Soil	06-Dec-02	06-Dec-02
B15	3212015-20	Water	06-Dec-02	06-Dec-02
B15-32	3212015-21	Soil	06-Dec-02	06-Dec-02
B16-29	3212015-22	Soil	06-Dec-02	06-Dec-02
B16-31	3212015-23	Soil	06-Dec-02	06-Dec-02
B16-33	3212015-25	Soil	06-Dec-02	06-Dec-02
B16	3212015-30	Water	06-Dec-02	06-Dec-02
B17-7	3212015-33	Soil	06-Dec-02	06-Dec-02
B17-15	3212015-35	Soil	06-Dec-02	06-Dec-02
B17-25	3212015-37	Soil	06-Dec-02	06-Dec-02
B17-30	3212015-38	Soil	06-Dec-02	06-Dec-02
B17-32	3212015-39	Soil	06-Dec-02	06-Dec-02
B17-34	3212015-40	Soil	06-Dec-02	06-Dec-02
B17-36	3212015-41	Soil	06-Dec-02	06-Dec-02
B17	3212016-01	Water	06-Dec-02	06-Dec-02
B14	3212016-02	Water	06-Dec-02	06-Dec-02
B18-25'	3212016-08	Soil	06-Dec-02	06-Dec-02
B18-32'	3212016-09	Soil	06-Dec-02	06-Dec-02
B18-34'	3212016-10	Soil	06-Dec-02	06-Dec-02

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 686-001, Task BG 014	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B18-36'	3212016-11	Soil	06-Dec-02	06-Dec-02
B18-40'	3212016-12	Soil	06-Dec-02	06-Dec-02
B18	3212021-03	Water	09-Dec-02	10-Dec-02

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

TPH by GC FID

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B1-25 (3212006-01) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B1-30 (3212006-02) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	140	10	mg/kg	1	3L20402	03-Dec-02	03-Dec-02	CA DHS LUFT	D-06
Gasoline	240	10	"	"	"	"	"	"	
B1-32 (3212006-03) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	2100	10	mg/kg	1	3L20402	03-Dec-02	03-Dec-02	CA DHS LUFT	D-06
Gasoline	8600	10	"	"	"	"	"	"	
B1-34 (3212006-04) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20402	03-Dec-02	03-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B1-36 (3212006-05) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20402	03-Dec-02	03-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B1-20 (3212006-11) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B2-30 (3212006-16) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	

HP LABS

EnccoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

TPH by GC FID

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B2-32 (3212006-17) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B2-34 (3212006-18) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B2-40 (3212006-19) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B3-7 (3212006-20) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B3-10 (3212006-21) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B3-20 (3212006-22) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B3-25 (3212006-23) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

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HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B3-30 (3212006-24) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	2800	10	mg/kg	1	3L20402	03-Dec-02	03-Dec-02	CA DHS LUFT	D-06
Gasoline	1700	10	"	"	"	"	"	"	D-06
B3-32 (3212006-25) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	6700	10	mg/kg	1	3L20402	03-Dec-02	03-Dec-02	CA DHS LUFT	D-06
Gasoline	4000	10	"	"	"	"	"	"	D-06
B3-34 (3212006-26) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20402	03-Dec-02	03-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B4-7 (3212006-29) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B4-10 (3212006-30) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B4-20 (3212006-31) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B4-30 (3212006-32) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	4500	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	1200	10	"	"	"	"	"	"	D-06

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

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HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B4-32 (3212006-33) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	24000	10	mg/kg	1	3L20402	03-Dec-02	03-Dec-02	CA DHS LUFT	D-06
Gasoline	11000	10	"	"	"	"	"	"	D-06
B4-34 (3212006-34) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	12000	10	mg/kg	1	3L20402	03-Dec-02	03-Dec-02	CA DHS LUFT	D-06
Gasoline	3900	10	"	"	"	"	"	"	D-06
B4-36 (3212006-35) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Diesel	51	10	mg/kg	1	3L20402	03-Dec-02	03-Dec-02	CA DHS LUFT	D-06
Gasoline	17	10	"	"	"	"	"	"	D-06
B6-32 (3212010-02) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	200	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	D-06
Gasoline	780	10	"	"	"	"	"	"	
B5-20 (3212010-08) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B5-28.5 (3212010-09) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B1 (3212010-10) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	22000	500	ug/l	1	3L20601	05-Dec-02	05-Dec-02	CA DHS LUFT	D-06
Gasoline	130000	500	"	"	"	"	"	"	

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

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HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B3 (3212010-11) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	2100000	500	ug/l	1	3L20601	05-Dec-02	05-Dec-02	CA DHS LUFT	D-06
Gasoline	1200000	500	"	"	"	"	"	"	D-06
B4 (3212010-12) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	220000	500	ug/l	1	3L20601	05-Dec-02	05-Dec-02	CA DHS LUFT	D-06
Gasoline	83000	500	"	"	"	"	"	"	D-06
B6-33 (3212010-13) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	180	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	D-06
Gasoline	200	10	"	"	"	"	"	"	D-06
B2 (3212010-14) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	ND	500	ug/l	1	3L20601	05-Dec-02	05-Dec-02	CA DHS LUFT	
Gasoline	ND	500	"	"	"	"	"	"	
B7-32 (3212010-17) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	ND	10	mg/kg	1	3L21001	06-Dec-02	06-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B7-36 (3212010-18) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B8-25 (3212010-20) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	ND	10	mg/kg	1	3L21001	06-Dec-02	06-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

TPH by GC FID

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B8-32 (3212010-21) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	760	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	D-06
Gasoline	3400	10	"	"	"	"	"	"	
B8-34 (3212010-22) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B7 (3212010-25) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	1400	500	ug/l	1	3L20601	05-Dec-02	05-Dec-02	CA DHS LUFT	D-06
Gasoline	5000	500	"	"	"	"	"	"	
B6 (3212010-26) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	4600	500	ug/l	1	3L20601	05-Dec-02	05-Dec-02	CA DHS LUFT	D-06
Gasoline	56000	500	"	"	"	"	"	"	
B9-25 (3212010-27) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	ND	10	mg/kg	1	3L21702	17-Dec-02	17-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B9-31 (3212010-28) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	1100	10	mg/kg	1	3L21001	06-Dec-02	06-Dec-02	CA DHS LUFT	D-06
Gasoline	480	10	"	"	"	"	"	"	D-06
B9-33 (3212010-29) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	4900	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	D-06
Gasoline	2600	10	"	"	"	"	"	"	D-06

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

TPH by GC FID

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B9-35 (3212010-30) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	ND	10	mg/kg	1	3L21001	06-Dec-02	06-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B8 (3212010-32) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	11000	500	ug/l	1	3L20601	05-Dec-02	05-Dec-02	CA DHS LUFT	D-06
Gasoline	91000	500	"	"	"	"	"	"	
B9 (3212010-33) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	14000	500	ug/l	1	3L20601	05-Dec-02	05-Dec-02	CA DHS LUFT	D-06
Gasoline	8600	500	"	"	"	"	"	"	D-06
B10 (3212014-11) Water Sampled: 05-Dec-02 Received: 05-Dec-02									
Diesel	ND	500	ug/l	1	3L20601	05-Dec-02	05-Dec-02	CA DHS LUFT	
Gasoline	760	500	"	"	"	"	"	"	
B11-36 (3212014-14) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Diesel	ND	10	mg/kg	1	3L20602	05-Dec-02	05-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B11-40 (3212014-15) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Diesel	ND	10	mg/kg	1	3L20602	05-Dec-02	05-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B11 (3212014-17) Water Sampled: 05-Dec-02 Received: 05-Dec-02									
Diesel	ND	500	ug/l	1	3L20601	05-Dec-02	05-Dec-02	CA DHS LUFT	
Gasoline	1600	500	"	"	"	"	"	"	

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

TPH by GC FID

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B12-32 (3212014-19) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Diesel	ND	10	mg/kg	1	3L21001	06-Dec-02	06-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B12-34 (3212014-20) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Diesel	2700	10	mg/kg	1	3L20602	05-Dec-02	05-Dec-02	CA DHS LUFT	D-06
Gasoline	3800	10	"	"	"	"	"	"	D-06
B12-36 (3212014-21) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Diesel	ND	10	mg/kg	1	3L20602	05-Dec-02	05-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B13-30 (3212015-02) Soil Sampled: 05-Dec-02 Received: 06-Dec-02									
Diesel	2300	10	mg/kg	1	3L21001	06-Dec-02	06-Dec-02	CA DHS LUFT	D-06
Gasoline	1000	10	"	"	"	"	"	"	D-06
B13-35 (3212015-03) Soil Sampled: 05-Dec-02 Received: 06-Dec-02									
Diesel	ND	10	mg/kg	1	3L21001	06-Dec-02	06-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B12 (3212015-06) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	3800	500	ug/l	1	3L21002	06-Dec-02	06-Dec-02	CA DHS LUFT	D-06
Gasoline	9200	500	"	"	"	"	"	"	
B14-25 (3212015-10) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	730	10	mg/kg	1	3L21702	17-Dec-02	17-Dec-02	CA DHS LUFT	D-06
Gasoline	260	10	"	"	"	"	"	"	D-06

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

TPH by GC FID

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B14-30 (3212015-11) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	1000	10	mg/kg	1	3L21001	06-Dec-02	06-Dec-02	CA DHS LUFT	D-06
Gasoline	390	10	"	"	"	"	"	"	D-06
B13 (3212015-14) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	210000	500	ug/l	1	3L21002	06-Dec-02	06-Dec-02	CA DHS LUFT	D-06
Gasoline	91000	500	"	"	"	"	"	"	D-06
B15 (3212015-20) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	ND	500	ug/l	1	3L21002	06-Dec-02	06-Dec-02	CA DHS LUFT	
Gasoline	ND	500	"	"	"	"	"	"	
B16 (3212015-30) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	ND	500	ug/l	1	3L21002	06-Dec-02	06-Dec-02	CA DHS LUFT	
Gasoline	ND	500	"	"	"	"	"	"	
B17-7 (3212015-33) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	ND	10	mg/kg	1	3L21702	17-Dec-02	17-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B17-15 (3212015-35) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	ND	10	mg/kg	1	3L21702	17-Dec-02	17-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B17-25 (3212015-37) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	4100	10	mg/kg	1	3L21702	17-Dec-02	17-Dec-02	CA DHS LUFT	
Gasoline	330	10	"	"	"	"	"	"	D-12

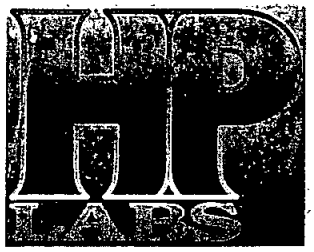
HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

TPH by GC FID

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B17-32 (3212015-39) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	13000	10	mg/kg	1	3L21003	09-Dec-02	09-Dec-02	CA DHS LUFT	D-06
Gasoline	7800	10	"	"	"	"	"	"	D-06
B17 (3212016-01) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	190000	500	ug/l	1	3L21004	09-Dec-02	09-Dec-02	CA DHS LUFT	D-06
Gasoline	80000	500	"	"	"	"	"	"	D-06
B14 (3212016-02) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	4400	500	ug/l	1	3L21004	09-Dec-02	09-Dec-02	CA DHS LUFT	D-06
Gasoline	3600	500	"	"	"	"	"	"	D-06
B18-32' (3212016-09) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	1300	10	mg/kg	1	3L21003	09-Dec-02	09-Dec-02	CA DHS LUFT	D-06
Gasoline	320	10	"	"	"	"	"	"	D-06
B18 (3212021-03) Water Sampled: 09-Dec-02 Received: 10-Dec-02									
Diesel	ND	500	ug/l	1	3L21302	11-Dec-02	11-Dec-02	CA DHS LUFT	
Gasoline	ND	500	"	"	"	"	"	"	



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13 January 2003

1686001
(99014)

Mr. Mike Gibbs
EnecoTech
6160 Fairmount Ave., Suite A
San Diego, CA 92120

RE: ETIC120302-L3 Amended

Enclosed are the results of analyses for samples received by the laboratory on 12/4/2002 -12/6/2002 . If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tamara Davis

Tamara Davis
Laboratory Director

148 S. Vinewood Street • Escondido, CA 92029 • Phone (760) 735-3208 • Fax (760) 735-2469
432 N. Cedros Avenue • Solana Beach, CA 92075 • Phone (858) 793-0401 • Fax (858) 793-0404
2373 208th Street Suite F-1 • Torrance, CA 90501 • Phone (310) 782-2929 • Fax (310) 782-2798

HP LABS

EnecoTech	Project: ETIC120302-L3 Amended	
6160 Fairmount Ave., Suite A	Project Number: 686-001, Task BG 014	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	13-Jan-03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B6-34	3212010-03	Soil	04-Dec-02	04-Dec-02
B17-34	3212015-40	Soil	06-Dec-02	06-Dec-02

HP LABS

EnecoTech	Project: ETIC120302-L3 Amended	
6160 Fairmount Ave., Suite A	Project Number: 686-001, Task BG 014	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	13-Jan-03

TPH by GC FID

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B6-34 (3212010-03) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Diesel	ND	10	mg/kg	1	3L20405	04-Dec-02	04-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	
B17-34 (3212015-40) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Diesel	ND	10	mg/kg	1	3L21003	09-Dec-02	09-Dec-02	CA DHS LUFT	
Gasoline	ND	10	"	"	"	"	"	"	

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Amended Project Number: 686-001, Task BG 014 Project Manager: Mr. Mike Gibbs	Reported: 13-Jan-03

TPH by GC FID - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L20405 - LUFT-DHS										
Blank (3L20405-BLK1)				Prepared & Analyzed: 04-Dec-02						
Diesel	ND	10	mg/kg							
Gasoline	ND	10	"							
Matrix Spike (3L20405-MS1)		Source: 3212010-03		Prepared & Analyzed: 04-Dec-02						
Diesel	233	10	mg/kg	251	ND	92.8	67-125			
Gasoline	136	10	"	151	ND	90.1	67-125			
Matrix Spike Dup (3L20405-MSD1)		Source: 3212010-03		Prepared & Analyzed: 04-Dec-02						
Diesel	241	10	mg/kg	251	ND	96.0	67-125	3.38	30	
Gasoline	142	10	"	151	ND	94.0	67-125	4.32	30	
Batch 3L21003 - LUFT-DHS										
Blank (3L21003-BLK1)				Prepared & Analyzed: 09-Dec-02						
Diesel	ND	10	mg/kg							
Gasoline	ND	10	"							
Matrix Spike (3L21003-MS1)		Source: 3212015-40		Prepared & Analyzed: 09-Dec-02						
Diesel	247	10	mg/kg	251	ND	98.4	67-125			
Gasoline	147	10	"	151	ND	97.4	67-125			
Matrix Spike Dup (3L21003-MSD1)		Source: 3212015-40		Prepared & Analyzed: 09-Dec-02						
Diesel	248	10	mg/kg	251	ND	98.8	67-125	0.404	30	
Gasoline	147	10	"	151	ND	97.4	67-125	0.00	30	

HP LABS

EnecoTech	Project: ETIC120302-L3 Amended	
6160 Fairmount Ave., Suite A	Project Number: 686-001, Task BG 014	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	13-Jan-03

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Chain of Custody Record

HP LABS
☒ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/4/02
HPL Project # ETIL 120302-13
Outside Lab:

Client: Enecotech
Address: 6160 Fairmount Av., Suite A
San Diego, CA. 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Client Project # 636-001 TASK 86 D14
Location: 11427 Woodside Av., Santee
Turn around time: On-site

Page: 1 Of 3
Project Manager Mike Gibbs

Global ID: EDF: Yes / No

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX				3212010	Total # of containers
B6-30				12/4/02	S	Ac TUBE			X													01	—
B6-32							X		X									X				02	1
B6-34							X		X													03	1
B6-36									X													04	—
B6-40									X													05	1
B5-7																						06	1
B5-10																						07	1
B5-20							X		X													08	1
B5-28.5							X		X													09	1
B1					W	3 VOAs 1 L	X		X									X				10	4
B3							X		X									X				11	4
B4							X		X									X				12	4
B6-33					S	4 oz J	X		X													13	1
B2					W	3 VOAs 1 L	X		X									X				14	4

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
[signature]	12/4/02	[signature]	HP LABS	12/4/02	
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS
148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/6/02
HPL Project # ETIL 120302-L3
Outside Lab:

Client: EnecoTech
Address: 6160 Fairmount Ave, Suite A, San Diego, CA 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Page: 3 Of 3
Client Project # 686-001 Task Bg 014 Project Manager Mike G. Bbs
Location: 11427 Woodside Av., Santee
Turn around time: On-site

Global ID: EDF: Yes / No

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases						3212015	Total # of containers
B16-45				12/6/02	S	Acetate																	29	1
B16					W	VOAs	X		X														30	5
B3-FP					Prod.		X		X														31	1
B4-FP					↓		X																32	1
B17-7					SOIL	Acetate																	33	1
B17-10																							34	1
B17-15																							35	1
B17-20																							36	1
B17-25																							37	1
B17-30								X															38	1
B17-32							X	X															39	1
B17-34							X	X															40	1
B17-36								X															41	1
B17-40				↓	↓	↓																	42	1

Relinquished by: (Signature) (company)
Received by: (Signature) (company) HP LABS
Date: 12/6/02 Time:

Relinquished by: (Signature) (company)
Received by: (Signature) (company)
Date: Time:

Relinquished by: (Signature) (company)
Received by: (Signature) (company)
Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Soil and Temporary Well Groundwater BTEX and MTBE by EPA 8021B

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B1-25 (3212006-01) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*		*60-140*	"	"	"	"	
B1-30 (3212006-02) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	1.0	mg/kg	20	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	0.68	0.06	"	"	"	"	"	"	
Toluene	1.6	0.06	"	"	"	"	"	"	
Ethylbenzene	2.4	0.06	"	"	"	"	"	"	
Xylenes (total)	13	0.20	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*111 %*		*60-140*	"	"	"	"	
B1-32 (3212006-03) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	130	50	mg/kg	1000	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	61	3.0	"	"	"	"	"	"	
Toluene	340	3.0	"	"	"	"	"	"	
Ethylbenzene	100	3.0	"	"	"	"	"	"	
Xylenes (total)	590	10	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*188 %*		*60-140*	"	"	"	"	*S-02*
B1-34 (3212006-04) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	0.72	0.50	mg/kg	10	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	0.66	0.05	"	"	"	"	"	"	
Toluene	2.4	0.05	"	"	"	"	"	"	
Ethylbenzene	0.97	0.05	"	"	"	"	"	"	
Xylenes (total)	4.9	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*120 %*		*60-140*	"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B1-36 (3212006-05) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.0 %*		*60-140*	"	"	"	"	
B1-38 (3212006-06) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*		*60-140*	"	"	"	"	
B2-30 (3212006-16) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.0 %*		*60-140*	"	"	"	"	
B2-32 (3212006-17) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.0 %*		*60-140*	"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B2-34 (3212006-18) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.0 %*		*60-140*	"	"	"	"	
B2-40 (3212006-19) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98.0 %*		*60-140*	"	"	"	"	
B3-20 (3212006-22) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*		*60-140*	"	"	"	"	
B3-25 (3212006-23) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.0 %*		*60-140*	"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B3-30 (3212006-24) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	10	10	mg/kg	200	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	8.2	0.60	"	"	"	"	"	"	
Toluene	8.6	0.60	"	"	"	"	"	"	
Ethylbenzene	27	0.60	"	"	"	"	"	"	
Xylenes (total)	96	2.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*219 %*	*60-140*		"	"	"	"	*S-02*
B3-32 (3212006-25) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	42	10	mg/kg	200	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	32	0.60	"	"	"	"	"	"	
Toluene	8.2	0.60	"	"	"	"	"	"	
Ethylbenzene	55	0.60	"	"	"	"	"	"	
Xylenes (total)	210	2.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*298 %*	*60-140*		"	"	"	"	*S-02*
B3-34 (3212006-26) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	0.21	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.0 %*	*60-140*		"	"	"	"	
B3-36 (3212006-27) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	0.14	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*83.0 %*	*60-140*		"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B3-40 (3212006-28) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.0 %*		*60-140*		"	"	"	
B4-7 (3212006-29) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*		*60-140*		"	"	"	
B4-10 (3212006-30) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.0 %*		*60-140*		"	"	"	
B4-20 (3212006-31) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.0 %*		*60-140*		"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B4-30 (3212006-32) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	0.39	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	0.46	0.05	"	"	"	"	"	"	
Toluene	0.13	0.05	"	"	"	"	"	"	
Ethylbenzene	8.1	0.05	"	10	"	"	"	"	
Xylenes (total)	19	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*320 %*	*60-140*		"	"	"	"	*S-02*
B4-32 (3212006-33) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	50	mg/kg	1000	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	14	3.0	"	"	"	"	"	"	
Toluene	11	3.0	"	"	"	"	"	"	
Ethylbenzene	35	3.0	"	"	"	"	"	"	
Xylenes (total)	110	10	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.0 %*	*60-140*		"	"	"	"	
B4-34 (3212006-34) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	2.6	2.5	mg/kg	50	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	0.84	0.15	"	"	"	"	"	"	
Toluene	1.2	0.15	"	"	"	"	"	"	
Ethylbenzene	11	0.15	"	"	"	"	"	"	
Xylenes (total)	18	0.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*164 %*	*60-140*		"	"	"	"	*S-02*
B4-36 (3212006-35) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	0.40	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	0.05	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*78.0 %*	*60-140*		"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B4-38 (3212006-36) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	0.35	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	0.11	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.0 %*		*60-140*	"	"	"	"	
B4-40 (3212006-37) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	0.24	0.1	mg/kg	1	3L20403	03-Dec-02	03-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*82.0 %*		*60-140*	"	"	"	"	
B6-30 (3212010-01) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*		*60-140*	"	"	"	"	
B6-32 (3212010-02) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	68	5.0	mg/kg	100	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	9.1	0.30	"	"	"	"	"	"	
Toluene	7.2	0.30	"	"	"	"	"	"	
Ethylbenzene	26	0.30	"	"	"	"	"	"	
Xylenes (total)	120	1.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*158 %*		*60-140*	"	"	"	"	*S-02*

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B6-34 (3212010-03) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.50	mg/kg	10	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	0.36	0.05	"	"	"	"	"	"	
Toluene	0.08	0.05	"	"	"	"	"	"	
Ethylbenzene	0.40	0.05	"	"	"	"	"	"	
Xylenes (total)	0.75	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*120 %*		*60-140*		"	"	"	
B6-36 (3212010-04) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	0.06	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	0.11	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*107 %*		*60-140*		"	"	"	
B6-40 (3212010-05) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.0 %*		*60-140*		"	"	"	
B5-20 (3212010-08) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.0 %*		*60-140*		"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B5-28.5 (3212010-09) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.0 %*		*60-140*		"	"	"	
B1 (3212010-10) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	40000	ug/l	200	3L20604	05-Dec-02	05-Dec-02	EPA 8020M	
Benzene	17000	1000	"	"	"	"	"	"	
Toluene	31000	1000	"	"	"	"	"	"	
Ethylbenzene	5100	1000	"	"	"	"	"	"	
Xylenes (total)	29000	3000	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*113 %*		*60-140*		"	"	"	
B3 (3212010-11) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	4000	ug/l	20	3L20604	05-Dec-02	05-Dec-02	EPA 8020M	
Benzene	2800	100	"	"	"	"	"	"	
Toluene	120	100	"	"	"	"	"	"	
Ethylbenzene	1500	100	"	"	"	"	"	"	
Xylenes (total)	4600	300	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.5 %*		*60-140*		"	"	"	
B4 (3212010-12) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	2000	ug/l	10	3L20604	05-Dec-02	05-Dec-02	EPA 8020M	
Benzene	540	50	"	"	"	"	"	"	
Toluene	82	50	"	"	"	"	"	"	
Ethylbenzene	420	50	"	"	"	"	"	"	
Xylenes (total)	1400	150	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*78.7 %*		*60-140*		"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B6-33 (3212010-13) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	1.9	1.0	mg/kg	20	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	0.38	0.06	"	"	"	"	"	"	
Toluene	1.6	0.06	"	"	"	"	"	"	
Ethylbenzene	4.9	0.06	"	"	"	"	"	"	
Xylenes (total)	28	0.20	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*303 %*	*60-140*		"	"	"	"	*S-02*
B2 (3212010-14) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	20	ug/l	0.1	3L20604	05-Dec-02	05-Dec-02	EPA 8020M	
Benzene	ND	0.5	"	"	"	"	"	"	
Toluene	10	0.5	"	"	"	"	"	"	
Ethylbenzene	4.1	0.5	"	"	"	"	"	"	
Xylenes (total)	27	1.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*	*60-140*		"	"	"	"	
B7-25 (3212010-15) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.0 %*	*60-140*		"	"	"	"	
B7-30 (3212010-16) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*108 %*	*60-140*		"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B7-32 (3212010-17) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	0.15	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	0.21	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	0.06	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.0 %*		*60-140*		"	"	"	
B7-36 (3212010-18) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	0.22	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	0.73	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*75.0 %*		*60-140*		"	"	"	
B7-40 (3212010-19) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*		*60-140*		"	"	"	
B8-25 (3212010-20) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*108 %*		*60-140*		"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B8-32 (3212010-21) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	10	mg/kg	200	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	15	0.60	"	"	"	"	"	"	
Toluene	88	0.60	"	"	"	"	"	"	
Ethylbenzene	63	0.60	"	"	"	"	"	"	
Xylenes (total)	330	2.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*137 %*		*60-140*	"	"	"	"	
B8-34 (3212010-22) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.50	mg/kg	10	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	0.26	0.05	"	"	"	"	"	"	
Toluene	0.20	0.05	"	"	"	"	"	"	
Ethylbenzene	0.24	0.05	"	"	"	"	"	"	
Xylenes (total)	0.45	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*78.0 %*		*60-140*	"	"	"	"	
B8-36 (3212010-23) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	0.10	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	0.20	0.05	"	"	"	"	"	"	
Ethylbenzene	0.21	0.05	"	"	"	"	"	"	
Xylenes (total)	1.2	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*254 %*		*60-140*	"	"	"	"	*S-02*
B8-38 (3212010-24) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.0 %*		*60-140*	"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B7 (3212010-25) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	2000	ug/l	10	3L20604	05-Dec-02	05-Dec-02	EPA 8020M	
Benzene	5300	50	"	"	"	"	"	"	
Toluene	51	50	"	"	"	"	"	"	
Ethylbenzene	970	50	"	"	"	"	"	"	
Xylenes (total)	230	150	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*112 %*		*60-140*	"	"	"	"	
B6 (3212010-26) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	400	ug/l	2	3L20604	05-Dec-02	05-Dec-02	EPA 8020M	
Benzene	610	10	"	"	"	"	"	"	
Toluene	1400	10	"	"	"	"	"	"	
Ethylbenzene	450	10	"	"	"	"	"	"	
Xylenes (total)	2200	30	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.5 %*		*60-140*	"	"	"	"	
B9-25 (3212010-27) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21703	17-Dec-02	17-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.0 %*		*60-140*	"	"	"	"	
B9-31 (3212010-28) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	2.7	0.50	mg/kg	10	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	0.25	0.05	"	"	"	"	"	"	
Toluene	1.1	0.05	"	"	"	"	"	"	
Ethylbenzene	2.4	0.05	"	"	"	"	"	"	
Xylenes (total)	8.0	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*479 %*		*60-140*	"	"	"	"	*S-02*

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B9-33 (3212010-29) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	10	mg/kg	200	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	6.2	0.60	"	"	"	"	"	"	
Toluene	8.0	0.60	"	"	"	"	"	"	
Ethylbenzene	19	0.60	"	"	"	"	"	"	
Xylenes (total)	44	2.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*114 %*		*60-140*		"	"	"	
B9-35 (3212010-30) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20603	04-Dec-02	04-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.0 %*		*60-140*		"	"	"	
B8 (3212010-32) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	2000	ug/l	10	3L20604	05-Dec-02	05-Dec-02	EPA 8020M	
Benzene	1800	50	"	"	"	"	"	"	
Toluene	6700	50	"	"	"	"	"	"	
Ethylbenzene	2200	50	"	"	"	"	"	"	
Xylenes (total)	12000	150	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*61.6 %*		*60-140*		"	"	"	
B9 (3212010-33) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	400	ug/l	2	3L20604	05-Dec-02	05-Dec-02	EPA 8020M	
Benzene	51	10	"	"	"	"	"	"	
Toluene	38	10	"	"	"	"	"	"	
Ethylbenzene	510	10	"	"	"	"	"	"	
Xylenes (total)	1500	30	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*163 %*		*60-140*		"	"	"	*S-02*

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B10-30 (3212014-07) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20605	05-Dec-02	05-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.0 %*		*60-140*	"	"	"	"	
B10-32 (3212014-08) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20605	05-Dec-02	05-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*		*60-140*	"	"	"	"	
B10-34 (3212014-09) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20605	05-Dec-02	05-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	0.06	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.0 %*		*60-140*	"	"	"	"	
B10-40 (3212014-10) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20605	05-Dec-02	05-Dec-02	EPA 8021B	
Benzene	0.08	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	0.10	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.0 %*		*60-140*	"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B10 (3212014-11) Water Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	ND	200	ug/l	1	3L20604	05-Dec-02	05-Dec-02	EPA 8020M	
Benzene	330	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	250	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*74.9 %*		*60-140*	"	"	"	"	
B11-31 (3212014-13) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20605	05-Dec-02	05-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.0 %*		*60-140*	"	"	"	"	
B11-36 (3212014-14) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20605	05-Dec-02	05-Dec-02	EPA 8021B	
Benzene	0.24	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	0.06	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*107 %*		*60-140*	"	"	"	"	
B11-40 (3212014-15) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20605	05-Dec-02	05-Dec-02	EPA 8021B	
Benzene	0.07	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.0 %*		*60-140*	"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B11-45 (3212014-16) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20605	05-Dec-02	05-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*60-140*		"	"	"	"	
B11 (3212014-17) Water Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	ND	200	ug/l	1	3L20604	05-Dec-02	05-Dec-02	EPA 8020M	
Benzene	610	5.0	"	"	"	"	"	"	
Toluene	7.0	5.0	"	"	"	"	"	"	
Ethylbenzene	220	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*78.3 %*	*60-140*		"	"	"	"	
B12-32 (3212014-19) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20605	05-Dec-02	05-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.0 %*	*60-140*		"	"	"	"	
B12-34 (3212014-20) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	7.9	5.0	mg/kg	100	3L20605	05-Dec-02	05-Dec-02	EPA 8021B	
Benzene	0.94	0.30	"	"	"	"	"	"	
Toluene	5.8	0.30	"	"	"	"	"	"	
Ethylbenzene	8.2	0.30	"	"	"	"	"	"	
Xylenes (total)	7.3	1.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*225 %*	*60-140*		"	"	"	"	*S-02*

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B12-36 (3212014-21) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	ND	0.50	mg/kg	10	3L20605	05-Dec-02	05-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	0.08	0.05	"	"	"	"	"	"	
Ethylbenzene	0.27	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*105 %*		*60-140*		"	"	"	
312-38 (3212014-22) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L20605	05-Dec-02	05-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*72.0 %*		*60-140*		"	"	"	
3-25 (3212015-01) Soil Sampled: 05-Dec-02 Received: 06-Dec-02									
thyl tert-butyl ether	ND	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
nzene	ND	0.05	"	"	"	"	"	"	
uene	ND	0.05	"	"	"	"	"	"	
ylbenzene	ND	0.05	"	"	"	"	"	"	
enes (total)	ND	0.15	"	"	"	"	"	"	
ogate: a,a,a-Trifluorotoluene		*96.0 %*		*60-140*		"	"	"	
30 (3212015-02) Soil Sampled: 05-Dec-02 Received: 06-Dec-02									
yl tert-butyl ether	5.0	1.0	mg/kg	20	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
ene	3.6	0.06	"	"	"	"	"	"	
ene	1.9	0.06	"	"	"	"	"	"	
lbenzene	17	0.06	"	"	"	"	"	"	
es (total)	110	0.20	"	"	"	"	"	"	
gate: a,a,a-Trifluorotoluene		*656 %*		*60-140,*		"	"	"	*S-02*

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B13-35 (3212015-03) Soil Sampled: 05-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*		*60-140*	"	"	"	"	
B13-40 (3212015-04) Soil Sampled: 05-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*		*60-140*	"	"	"	"	
B12 (3212015-06) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	410	200	ug/l	1	3L21204	06-Dec-02	06-Dec-02	EPA 8020M	
Benzene	38	5.0	"	"	"	"	"	"	
Toluene	82	5.0	"	"	"	"	"	"	
Ethylbenzene	900	5.0	"	"	"	"	"	"	
Xylenes (total)	660	15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*368 %*		*60-140*	"	"	"	"	*S-02*
B14-25 (3212015-10) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	0.13	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	0.15	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	2600	0.05	"	10	"	"	"	"	
Xylenes (total)	0.68	0.15	"	1	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*177 %*		*60-140*	"	"	"	"	*S-02*

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B14-30 (3212015-11) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	1.0	mg/kg	20	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	0.96	0.06	"	"	"	"	"	"	
Toluene	1.4	0.06	"	"	"	"	"	"	
Ethylbenzene	2.9	0.06	"	"	"	"	"	"	
Xylenes (total)	5.7	0.20	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*155 %*	*60-140*		"	"	"	"	*S-02*
B14-35 (3212015-12) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.0 %*	*60-140*		"	"	"	"	
B13 (3212015-14) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	2600	2000	ug/l	10	3L21204	06-Dec-02	06-Dec-02	EPA 8020M	
Benzene	2400	50	"	"	"	"	"	"	
Toluene	210	50	"	"	"	"	"	"	
Ethylbenzene	1900	50	"	"	"	"	"	"	
Xylenes (total)	6900	150	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*68.7 %*	*60-140*		"	"	"	"	
B15-33 (3212015-15) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*60-140*		"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B15-34 (3212015-16) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.0 %*		*60-140*		"	"	"	
B15-35 (3212015-17) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*		*60-140*		"	"	"	
B15-36 (3212015-18) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.0 %*		*60-140*		"	"	"	
B15 (3212015-20) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	20	ug/l	0.1	3L21204	06-Dec-02	06-Dec-02	EPA 8020M	
Benzene	ND	0.5	"	"	"	"	"	"	
Toluene	ND	0.5	"	"	"	"	"	"	
Ethylbenzene	ND	0.5	"	"	"	"	"	"	
Xylenes (total)	ND	1.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*82.6 %*		*60-140*		"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B15-32 (3212015-21) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.0 %*	*60-140*		"	"	"	"	
B16-29 (3212015-22) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*60-140*		"	"	"	"	
B16-31 (3212015-23) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*60-140*		"	"	"	"	
B16-33 (3212015-25) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21203	06-Dec-02	06-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*60-140*		"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B16 (3212015-30) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	45	20	ug/l	0.1	3L21204	06-Dec-02	06-Dec-02	EPA 8020M	
Benzene	ND	0.5	"	"	"	"	"	"	
Toluene	ND	0.5	"	"	"	"	"	"	
Ethylbenzene	ND	0.5	"	"	"	"	"	"	
Xylenes (total)	ND	1.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*		*60-140*	"	"	"	"	
B17-30 (3212015-38) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21205	09-Dec-02	09-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	0.53	0.05	"	"	"	"	"	"	
Xylenes (total)	0.86	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*98.0 %*		*60-140*	"	"	"	"	
B17-32 (3212015-39) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	2.0	0.50	mg/kg	10	3L21205	09-Dec-02	09-Dec-02	EPA 8021B	
Benzene	1.6	0.05	"	"	"	"	"	"	
Toluene	0.32	0.05	"	"	"	"	"	"	
Ethylbenzene	2.2	0.05	"	"	"	"	"	"	
Xylenes (total)	7.5	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*183 %*		*60-140*	"	"	"	"	*S-02*
B17-34 (3212015-40) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21205	09-Dec-02	09-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*78.0 %*		*60-140*	"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B17-36 (3212015-41) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21205	09-Dec-02	09-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.0 %*		*60-140*		"	"	"	
B17 (3212016-01) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	4000	ug/l	20	3L21601	09-Dec-02	09-Dec-02	EPA 8020M	
Benzene	4500	100	"	"	"	"	"	"	
Toluene	ND	100	"	"	"	"	"	"	
Ethylbenzene	970	100	"	"	"	"	"	"	
Xylenes (total)	2600	300	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.1 %*		*60-140*		"	"	"	
B14 (3212016-02) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	200	ug/l	1	3L21601	09-Dec-02	09-Dec-02	EPA 8020M	
Benzene	38	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	210	5.0	"	"	"	"	"	"	
Xylenes (total)	340	15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.5 %*		*60-140*		"	"	"	
B18-25' (3212016-08) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21205	09-Dec-02	09-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.0 %*		*60-140*		"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B18-32' (3212016-09) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	0.17	0.1	mg/kg	1	3L21205	09-Dec-02	09-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	0.07	0.05	"	"	"	"	"	"	
Xylenes (total)	0.18	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*158 %*	*60-140*		"	"	"	"	*S-02*
B18-34' (3212016-10) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	0.21	0.1	mg/kg	1	3L21205	09-Dec-02	09-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.0 %*	*60-140*		"	"	"	"	
B18-36' (3212016-11) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	0.28	0.1	mg/kg	1	3L21205	09-Dec-02	09-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.0 %*	*60-140*		"	"	"	"	
B18-40' (3212016-12) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	0.1	mg/kg	1	3L21205	09-Dec-02	09-Dec-02	EPA 8021B	
Benzene	ND	0.05	"	"	"	"	"	"	
Toluene	ND	0.05	"	"	"	"	"	"	
Ethylbenzene	ND	0.05	"	"	"	"	"	"	
Xylenes (total)	ND	0.15	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.0 %*	*60-140*		"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B

HP Labs L3

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B18 (3212021-03) Water Sampled: 09-Dec-02 Received: 10-Dec-02									
Methyl tert-butyl ether	6100	2000	ug/l	10	3L21202	11-Dec-02	11-Dec-02	EPA 8020M	
Benzene	ND	0.5	"	0.1	"	"	"	"	
Toluene	ND	0.5	"	"	"	"	"	"	
Ethylbenzene	2.8	0.5	"	"	"	"	"	"	
Xylenes (total)	ND	1.5	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*126 %*		*60-140*	"	"	"	"	

Soil and Temporary Well Groundwater BTEX and MTBE by EPA 8260B

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B

HP Labs

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B1-32 (3212006-03) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	1000	ug/kg	200	EL21101	11-Dec-02	11-Dec-02	EPA 8260B	
Benzene	8300	1000	"	"	"	"	"	"	
Toluene	86000	1000	"	"	"	"	"	"	
Ethylbenzene	39000	1000	"	"	"	"	"	"	
m,p-Xylene	140000	1000	"	"	"	"	"	"	
o-Xylene	61000	1000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*79.6 %*		*65-135*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*74.2 %*		*52-149*	"	"	"	"	
Surrogate: Toluene-d8		*81.0 %*		*65-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.4 %*		*65-135*	"	"	"	"	
B2-32 (3212006-17) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	9.8	5	ug/kg	0.5	EL21101	11-Dec-02	11-Dec-02	EPA 8260B	
Benzene	12	5	"	"	"	"	"	"	
Toluene	6.4	5	"	"	"	"	"	"	
Ethylbenzene	ND	5	"	"	"	"	"	"	
m,p-Xylene	ND	5	"	"	"	"	"	"	
o-Xylene	ND	5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*85.4 %*		*65-135*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*77.2 %*		*52-149*	"	"	"	"	
Surrogate: Toluene-d8		*86.2 %*		*65-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*		*65-135*	"	"	"	"	
B3-32 (3212006-25) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	1400	1000	ug/kg	200	EL21101	11-Dec-02	11-Dec-02	EPA 8260B	
Benzene	20000	1000	"	"	"	"	"	"	
Toluene	1700	1000	"	"	"	"	"	"	
Ethylbenzene	55000	1000	"	"	"	"	"	"	
m,p-Xylene	160000	1000	"	"	"	"	"	"	
o-Xylene	1200	1000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*93.8 %*		*65-135*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*86.6 %*		*52-149*	"	"	"	"	
Surrogate: Toluene-d8		*95.4 %*		*65-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.8 %*		*65-135*	"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B

HP Labs

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B4-32 (3212006-33) Soil Sampled: 03-Dec-02 Received: 03-Dec-02									
Methyl tert-butyl ether	ND	1000	ug/kg	200	EL21101	11-Dec-02	11-Dec-02	EPA 8260B	
Benzene	1900	1000	"	"	"	"	"	"	
Toluene	1600	1000	"	"	"	"	"	"	
Ethylbenzene	6400	1000	"	"	"	"	"	"	
m,p-Xylene	17000	1000	"	"	"	"	"	"	
o-Xylene	ND	1000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*89.2 %*		*65-135*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*80.2 %*		*52-149*	"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*		*65-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.2 %*		*65-135*	"	"	"	"	
B6-32 (3212010-02) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	500	ug/kg	100	EL21101	11-Dec-02	11-Dec-02	EPA 8260B	
Benzene	660	500	"	"	"	"	"	"	
Toluene	3100	500	"	"	"	"	"	"	
Ethylbenzene	9800	500	"	"	"	"	"	"	
m,p-Xylene	34000	500	"	"	"	"	"	"	
o-Xylene	14000	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*88.2 %*		*65-135*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*84.8 %*		*52-149*	"	"	"	"	
Surrogate: Toluene-d8		*92.4 %*		*65-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.6 %*		*65-135*	"	"	"	"	
B8-32 (3212010-21) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	500	ug/kg	100	EL21101	11-Dec-02	11-Dec-02	EPA 8260B	
Benzene	2700	500	"	"	"	"	"	"	
Toluene	45000	500	"	"	"	"	"	"	
Ethylbenzene	46000	500	"	"	"	"	"	"	
m,p-Xylene	150000	500	"	"	"	"	"	"	
o-Xylene	66000	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*81.4 %*		*65-135*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*78.8 %*		*52-149*	"	"	"	"	
Surrogate: Toluene-d8		*87.8 %*		*65-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.6 %*		*65-135*	"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B

HP Labs

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B9-33 (3212010-29) Soil Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	500	500	ug/kg	100	EL21101	11-Dec-02	11-Dec-02	EPA 8260B	
Benzene	ND	500	"	"	"	"	"	"	
Toluene	ND	500	"	"	"	"	"	"	
Ethylbenzene	8900	500	"	"	"	"	"	"	
m,p-Xylene	20000	500	"	"	"	"	"	"	
o-Xylene	5300	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*80.4 %*	*65-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*76.8 %*	*52-149*		"	"	"	"	
Surrogate: Toluene-d8		*86.4 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.2 %*	*65-135*		"	"	"	"	
B11-36 (3212014-14) Soil Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	10	5	ug/kg	0.5	EL21101	11-Dec-02	11-Dec-02	EPA 8260B	
Benzene	88	5	"	"	"	"	"	"	
Toluene	5.8	5	"	"	"	"	"	"	
Ethylbenzene	38	5	"	"	"	"	"	"	
m,p-Xylene	ND	5	"	"	"	"	"	"	
o-Xylene	ND	5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*87.6 %*	*65-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*78.0 %*	*52-149*		"	"	"	"	
Surrogate: Toluene-d8		*85.8 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.0 %*	*65-135*		"	"	"	"	
B18-32' (3212016-09) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	150	50	ug/kg	10	EL21601	16-Dec-02	16-Dec-02	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
m,p-Xylene	ND	50	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*83.2 %*	*65-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*77.2 %*	*52-149*		"	"	"	"	
Surrogate: Toluene-d8		*90.0 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.6 %*	*65-135*		"	"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B

HP Labs

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B18-34' (3212016-10) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	140	5	ug/kg	0.5	EL21601	16-Dec-02	16-Dec-02	EPA 8260B	
Benzene	ND	5	"	"	"	"	"	"	
Toluene	ND	5	"	"	"	"	"	"	
Ethylbenzene	ND	5	"	"	"	"	"	"	
m,p-Xylene	ND	5	"	"	"	"	"	"	
o-Xylene	ND	5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*83.6 %*	*65-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*79.2 %*	*52-149*		"	"	"	"	
Surrogate: Toluene-d8		*87.2 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.6 %*	*65-135*		"	"	"	"	
B18-36' (3212016-11) Soil Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	250	5	ug/kg	0.5	EL21601	16-Dec-02	16-Dec-02	EPA 8260B	
Benzene	ND	5	"	"	"	"	"	"	
Toluene	ND	5	"	"	"	"	"	"	
Ethylbenzene	ND	5	"	"	"	"	"	"	
m,p-Xylene	ND	5	"	"	"	"	"	"	
o-Xylene	ND	5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*	*65-135*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*52-149*		"	"	"	"	
Surrogate: Toluene-d8		*112 %*	*65-135*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*65-135*		"	"	"	"	

HP LABS

RECEIVED
JAN 1 8 2003
BY:

1/16/2003

EnecoTech
6160 Fairmount Ave., Suite A
San Diego, CA 92120

1686001
(BG014)

Project Name:
Project No.: 686-Task BG 014

Attention: Mr. Mike Gibbs

The following sample(s) were received and analyzed:

Date Received	Quantity	Matrix
12/4/2002	1	water

The samples were analyzed by one or more of the EPA methodologies or equivalent methods listed below.

VOCs -- EPA Method 8260

The results are included with a summary of the quality control procedures. Please note that the symbol "nd" indicates a value below the reporting limit for the particular compound in the sample.

Please feel free to call us to discuss any part of this report or to schedule future projects.

Sincerely,

Tamara Davis
Lab Director

Mobile One Laboratories is certified by the California Department of Health Services (certificate #s: 1194, 1561, 1921, 2088, 2278).

HP Labs Project # ETIC120302-L3R

148 S. Vinewood Street • Escondido, CA 92029 • Phone (760) 735-3208 • Fax (760) 735-2469
432 N. Cedros Avenue • Solana Beach, CA 92075 • Phone (858) 793-0401 • Fax (858) 793-0404
2373 208th Street Suite F-1 • Torrance, CA 90501 • Phone (310) 782-2929 • Fax (310) 782-2798

Report Summary

EPA Method 8260B (5030 Prep.)

Client: EnecoTech
Project: 686-001, Task BG 014

Matrix: water
Units: ug/L

Sample Name:	**B1**	**Blank**
Analysis Date:	Dec 4 2002	Dec 4 2002
Dilution Factor:	50	50

Compound	E.Q.L	Amount Found		Amount Found
Methyl-t-butylether (MTBE	1	450 J	<	500
Benzene	0.5	13000	<	250
Toluene	0.5	25000	<	250
Ethylbenzene	0.5	4700	<	250
m,p-Xylene	1	17000	<	500
o-Xylene	0.5	7600	<	250

Surrogates	Spiked	QC Limits(% Rec.)			Percent Recovery
DBFM	50 ng	65-135	84	84	
1,2-DCA-d4	50 ng	52-149	78	75	
Toluene - d8	50 ng	65-135	85	88	
1,4-BFB	50 ng	65-135	85	87	

Analyses performed by: A. Kim

ETIC120302-L3R

QC Summary

Client: EnecoTech
Project: 686-001, Task BG 014

Matrix: water

Method 8260	Benzene	Toluene
Recovery % QC Limits	(75-125)	(74-125)
RPD - % QC Limits	<20	<20
Date Analyzed: 12/17/02		
Spike Level (ug/L)	5.0	5.0
Sample Amount	0.0	0.0
LCS Amount Found	4.3	4.3
LCSD Amount Found	4.3	4.2
LCS Recovery	85.0	86.2
LCSD Recovery	86.4	84.0
RPD - %	1.6	2.6
Date Analyzed: 12/17/02		
Spike Level (ug/L)	5.0	5.0
Sample Amount	0.3	9.8
MS Amount Found	4.5	13.0
MSD Amount Found	4.5	13.4
MS Recovery	83.6	64.0*
MSD Recovery	83.8	72.0*
RPD - %	0.2	11.8

ETIC120302-L3R

Footnote Summary

Footnote	Definition
E.Q.L.	Estimated Quantitation Limit
nd	Not detected above the E.Q.L. or detection limit.
J	The concentration reported is between the Method Detection Limit and the E.Q.L.
D	Concentration reported from a secondary dilution; E.Q.L.s adjusted accordingly.
B	Analyte found in the associated blank.
E	Analyte amount exceeds calibration range. Amount quantitated by extrapolation.
***	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
M	Surrogate recovery outside QC range due to matrix interference.
S	Because of necessary sample dilution, value was outside QC limits.
&	Gasoline range organics not identified as gasoline.
#	Diesel range organics not identified as diesel.
**	This compound has been screened by EPA method 8020. Any positive results should be confirmed by a second analysis.

Chain of Custody Record

HP LABS

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/4/02
HPL Project # ETIC 120307-13
Outside Lab:

Client: Enecotech
Address: 6160 Fairmont Av., Suite A
San Diego, CA 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Client Project # 636-001 Task 86 014
Location: 11427 Woodside Av., Santee
Turn around time: On-site

Page: 1 Of 3
Project Manager: Mike Gibbs

Global ID: EDF: Yes / No

Sample Receipt
Intact: Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX				3/12010	Total # of containers
B6-30				12/4/02	S	Ac Tube			X													01	—
B6-32							X		X									X				02	1
B6-34							X		X													03	1
B6-36									X													04	1
B6-40									X													05	1
B5-7											1											06	1
B5-10																						07	1
B5-20							X		X													08	●
B5-28.5							X		X													09	1
B1					W	3 VOAs 1 L	X		X									X				10	4
B3							X		X									X				11	4
B4							X		X									X				12	4
B6-33					S	4oz J	X		X													13	1
B2					W	3 VOAs 1 L	X		X									X				14	4

Relinquished by: (Signature) (company) 12/4/02
Relinquished by: (Signature) (company)
Relinquished by: (Signature) (company)

Received by: (Signature) (company) HP LABS
Received by: (Signature) (company)
Received by: (Signature) (company)

Date: 12/4/02 Time:
Date: Time:
Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B

HP Labs

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B1 (3212010-10) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	500	ug/l	50	EL21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	13000	250	"	"	"	"	"	"	
Toluene	25000	250	"	"	"	"	"	"	
Ethylbenzene	4700	250	"	"	"	"	"	"	
m,p-Xylene	17000	500	"	"	"	"	"	"	
o-Xylene	7600	250	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*83.8 %*		*75-125*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*78.4 %*		*62-139*		"	"	"	
Surrogate: Toluene-d8		*84.6 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.8 %*		*75-125*		"	"	"	
B3 (3212010-11) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	1700	1000	ug/l	100	EL21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	3800	500	"	"	"	"	"	"	
Toluene	ND	500	"	"	"	"	"	"	
Ethylbenzene	1800	500	"	"	"	"	"	"	
m,p-Xylene	5700	1000	"	"	"	"	"	"	
o-Xylene	ND	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*85.2 %*		*75-125*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*78.8 %*		*62-139*		"	"	"	
Surrogate: Toluene-d8		*84.4 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.8 %*		*75-125*		"	"	"	
B4 (3212010-12) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	850	100	ug/l	10	EL21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	670	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	410	50	"	"	"	"	"	"	
m,p-Xylene	1200	100	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*88.8 %*		*75-125*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*82.4 %*		*62-139*		"	"	"	
Surrogate: Toluene-d8		*92.4 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.4 %*		*75-125*		"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B

HP Labs

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B2 (3212010-14) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	1	ug/l	0.1	EL21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	ND	0.5	"	"	"	"	"	"	
Toluene	9.8	0.5	"	"	"	"	"	"	
Ethylbenzene	4.1	0.5	"	"	"	"	"	"	
m,p-Xylene	17	1	"	"	"	"	"	"	
o-Xylene	8.8	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*93.8 %*		*75-125*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*90.4 %*		*62-139*		"	"	"	
Surrogate: Toluene-d8		*97.0 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.2 %*		*75-125*		"	"	"	
B7 (3212010-25) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	780	100	ug/l	10	EL21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	4300	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	1100	50	"	"	"	"	"	"	
m,p-Xylene	280	100	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*83.2 %*		*75-125*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*75.6 %*		*62-139*		"	"	"	
Surrogate: Toluene-d8		*84.6 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*		*75-125*		"	"	"	
B6 (3212010-26) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	180	100	ug/l	10	EL21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	5300	50	"	"	"	"	"	"	
Toluene	14000	500	"	100	"	"	17-Dec-02	"	
Ethylbenzene	3700	50	"	10	"	"	17-Dec-02	"	
m,p-Xylene	11000	100	"	"	"	"	"	"	
o-Xylene	5500	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*87.6 %*		*75-125*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*81.0 %*		*62-139*		"	"	"	
Surrogate: Toluene-d8		*89.4 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.6 %*		*75-125*		"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B

HP Labs

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B8 (3212010-32) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	500	ug/l	50	EL21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	3000	250	"	"	"	"	"	"	
Toluene	11000	250	"	"	"	"	"	"	
Ethylbenzene	3900	250	"	"	"	"	"	"	
m,p-Xylene	14000	500	"	"	"	"	"	"	
o-Xylene	6300	250	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*84.2 %*		*75-125*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*77.4 %*		*62-139*		"	"	"	
Surrogate: Toluene-d8		*85.8 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.4 %*		*75-125*		"	"	"	
B9 (3212010-33) Water Sampled: 04-Dec-02 Received: 04-Dec-02									
Methyl tert-butyl ether	ND	100	ug/l	10	EL21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	440	50	"	"	"	"	"	"	
m,p-Xylene	1200	100	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*83.0 %*		*75-125*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*75.4 %*		*62-139*		"	"	"	
Surrogate: Toluene-d8		*85.0 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.6 %*		*75-125*		"	"	"	
B10 (3212014-11) Water Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	280	100	ug/l	10	EL21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	1000	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	1500	50	"	"	"	"	"	"	
m,p-Xylene	ND	100	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*84.8 %*		*75-125*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*78.0 %*		*62-139*		"	"	"	
Surrogate: Toluene-d8		*85.8 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.2 %*		*75-125*		"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B

HP Labs

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B11 (3212014-17) Water Sampled: 05-Dec-02 Received: 05-Dec-02									
Methyl tert-butyl ether	64	10	ug/l	1	EL21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	2800	50	"	10	"	"	17-Dec-02	"	
Toluene	6.5	5.0	"	1	"	"	17-Dec-02	"	
Ethylbenzene	720	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*85.6 %*		*75-125*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*77.6 %*		*62-139*		"	"	"	
Surrogate: Toluene-d8		*85.8 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*		*75-125*		"	"	"	
B17 (3212016-01) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	630	500	ug/l	50	EL21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	4100	250	"	"	"	"	"	"	
Toluene	ND	250	"	"	"	"	"	"	
Ethylbenzene	670	250	"	"	"	"	"	"	
m,p-Xylene	1800	500	"	"	"	"	"	"	
o-Xylene	ND	250	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*84.4 %*		*75-125*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*77.4 %*		*62-139*		"	"	"	
Surrogate: Toluene-d8		*85.2 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.0 %*		*75-125*		"	"	"	
B14 (3212016-02) Water Sampled: 06-Dec-02 Received: 06-Dec-02									
Methyl tert-butyl ether	ND	100	ug/l	10	EL21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	240	50	"	"	"	"	"	"	
m,p-Xylene	260	100	"	"	"	"	"	"	
o-Xylene	120	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*88.8 %*		*75-125*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*82.4 %*		*62-139*		"	"	"	
Surrogate: Toluene-d8		*88.4 %*		*75-125*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.2 %*		*75-125*		"	"	"	

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B

HP Labs

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B18 (3212021-03) Water Sampled: 09-Dec-02 Received: 10-Dec-02									
Methyl tert-butyl ether	6000	100	ug/l	10	EL21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
m,p-Xylene	ND	100	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*86.6 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*81.2 %*		*62-139*	"	"	"	"	
Surrogate: Toluene-d8		*86.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.6 %*		*75-125*	"	"	"	"	

HP LABS

02 January 2003

Mr. Mike Gibbs
Eneco Tech Southwest, Inc.
6160 Fairmount Avenue, Suite A
San Diego, CA 92120

RE: ETIC120302-L3A

Enclosed are the results of analyses for samples received by the laboratory on 17-Dec-02 . If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tamara Davis
Laboratory Director

148 S. Vinewood Street • Escondido, CA 92029 • Phone (760) 735-3208 • Fax (760) 735-2469
432 N. Cedros Avenue • Solana Beach, CA 92075 • Phone (858) 793-0401 • Fax (858) 793-0404
2373 208th Street Suite F-1 • Torrance, CA 90501 • Phone (310) 782-0830 • Fax (310) 782-0732

HP LABS

Eneco Tech Southwest, Inc. 6160 Fairmount Avenue, Suite A San Diego CA, 92120	Project: ETIC120302-L3A Project Number: 686-001 / 11427 Woodside Avenue Project Manager: Mr. Mike Gibbs	Reported: 02-Jan-03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B3-30	E212029-01	Soil	03-Dec-02	17-Dec-02
B3-34	E212029-02	Soil	03-Dec-02	17-Dec-02
B9-31	E212029-03	Soil	04-Dec-02	17-Dec-02
B6-33	E212029-04	Soil	04-Dec-02	17-Dec-02
B12-34	E212029-05	Soil	05-Dec-02	17-Dec-02
B13-30	E212029-06	Soil	05-Dec-02	17-Dec-02
B12	E212029-07	Water	06-Dec-02	17-Dec-02
B14-30	E212029-08	Soil	06-Dec-02	17-Dec-02
B15	E212029-09	Water	06-Dec-02	17-Dec-02
B16	E212029-10	Water	06-Dec-02	17-Dec-02
B17-32	E212029-11	Soil	06-Dec-02	17-Dec-02
B13	E212029-12	Water	06-Dec-02	17-Dec-02

HP LABS

Eneco Tech Southwest, Inc. 6160 Fairmount Avenue, Suite A San Diego CA, 92120	Project: ETIC120302-L3A Project Number: 686-001 / 11427 Woodside Avenue Project Manager: Mr. Mike Gibbs	Reported: 02-Jan-03

Volatile Organic Compounds by EPA Method 8260B

HP Labs

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B12 (E212029-07) Water Sampled: 06-Dec-02 Received: 17-Dec-02									
Methyl tert-butyl ether	ND	100	ug/l	10	EL21801	18-Dec-02	18-Dec-02	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	970	50	"	"	"	"	"	"	
m,p-Xylene	400	100	"	"	"	"	"	"	
o-Xylene	300	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*83.0 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*75.0 %*		*62-139*	"	"	"	"	
Surrogate: Toluene-d8		*86.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.6 %*		*75-125*	"	"	"	"	
B15 (E212029-09) Water Sampled: 06-Dec-02 Received: 17-Dec-02									
Methyl tert-butyl ether	ND	1	ug/l	0.1	EL21801	18-Dec-02	18-Dec-02	EPA 8260B	
Benzene	ND	0.5	"	"	"	"	"	"	
Toluene	ND	0.5	"	"	"	"	"	"	
Ethylbenzene	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1	"	"	"	"	"	"	
o-Xylene	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*79.2 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*71.2 %*		*62-139*	"	"	"	"	
Surrogate: Toluene-d8		*82.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*77.8 %*		*75-125*	"	"	"	"	
B16 (E212029-10) Water Sampled: 06-Dec-02 Received: 17-Dec-02									
Methyl tert-butyl ether	27	1	ug/l	0.1	EL21801	18-Dec-02	18-Dec-02	EPA 8260B	
Benzene	ND	0.5	"	"	"	"	"	"	
Toluene	ND	0.5	"	"	"	"	"	"	
Ethylbenzene	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1	"	"	"	"	"	"	
o-Xylene	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*84.0 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*74.4 %*		*62-139*	"	"	"	"	
Surrogate: Toluene-d8		*87.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.2 %*		*75-125*	"	"	"	"	

HP LABS

Eneco Tech Southwest, Inc. 6160 Fairmount Avenue, Suite A San Diego CA, 92120	Project: ETIC120302-L3A Project Number: 686-001 / 11427 Woodside Avenue Project Manager: Mr. Mike Gibbs	Reported: 02-Jan-03

Volatile Organic Compounds by EPA Method 8260B

HP Labs

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B13 (E212029-12) Water Sampled: 06-Dec-02 Received: 17-Dec-02									
Methyl tert-butyl ether	ND	10000	ug/l	1000	EL21801	18-Dec-02	18-Dec-02	EPA 8260B	
Benzene	31000	5000	"	"	"	"	"	"	
Toluene	ND	5000	"	"	"	"	"	"	
Ethylbenzene	170000	5000	"	"	"	"	"	"	
m,p-Xylene	530000	10000	"	"	"	"	"	"	
o-Xylene	16000	5000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*81.0 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*79.8 %*		*62-139*	"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.4 %*		*75-125*	"	"	"	"	

HP LABS

Eneco Tech Southwest, Inc.	Project: ETIC120302-L3A	
6160 Fairmount Avenue, Suite A	Project Number: 686-001 / 11427 Woodside Avenue	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	02-Jan-03

Volatile Organic Compounds by EPA Method 8260B

HP Labs L5

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B3-30 (E212029-01) Soil Sampled: 03-Dec-02 Received: 17-Dec-02									
Methyl tert-butyl ether	ND	200	ug/kg	40	5L21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	990	200	"	"	"	"	"	"	
Toluene	ND	200	"	"	"	"	"	"	
Ethylbenzene	14000	200	"	"	"	"	"	"	
m,p-Xylene	40000	200	"	"	"	"	"	"	
o-Xylene	ND	200	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96.2 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*115 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.6 %*		*65-135*		"	"	"	
B3-34 (E212029-02) Soil Sampled: 03-Dec-02 Received: 17-Dec-02									
Methyl tert-butyl ether	120	5	ug/kg	0.5	5L21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	21	5	"	"	"	"	"	"	
Toluene	ND	5	"	"	"	"	"	"	
Ethylbenzene	16	5	"	"	"	"	"	"	
m,p-Xylene	32	5	"	"	"	"	"	"	
o-Xylene	ND	5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*113 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*		*65-135*		"	"	"	
B9-31 (E212029-03) Soil Sampled: 04-Dec-02 Received: 17-Dec-02									
Methyl tert-butyl ether	ND	50	ug/kg	10	5L21801	18-Dec-02	18-Dec-02	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	170	50	"	"	"	"	"	"	
m,p-Xylene	450	50	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*91.0 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*83.6 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*116 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*126 %*		*65-135*		"	"	"	

HP LABS

Enecco Tech Southwest, Inc. 6160 Fairmount Avenue, Suite A San Diego CA, 92120	Project: ETIC120302-L3A Project Number: 686-001 / 11427 Woodside Avenue Project Manager: Mr. Mike Gibbs	Reported: 02-Jan-03

Volatile Organic Compounds by EPA Method 8260B

HP Labs L5

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B6-33 (E212029-04) Soil Sampled: 04-Dec-02 Received: 17-Dec-02									
Methyl tert-butyl ether	ND	50	ug/kg	10	5L21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	1600	50	"	"	"	"	"	"	
m,p-Xylene	6400	50	"	"	"	"	"	"	
o-Xylene	2200	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*93.4 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*109 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.6 %*		*65-135*		"	"	"	
B12-34 (E212029-05) Soil Sampled: 05-Dec-02 Received: 17-Dec-02									
Methyl tert-butyl ether	ND	50	ug/kg	10	5L21801	18-Dec-02	18-Dec-02	EPA 8260B	
Benzene	ND	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	ND	50	"	"	"	"	"	"	
m,p-Xylene	66	50	"	"	"	"	"	"	
o-Xylene	ND	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96.0 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*89.0 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*108 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*120 %*		*65-135*		"	"	"	
B13-30 (E212029-06) Soil Sampled: 05-Dec-02 Received: 17-Dec-02									
Methyl tert-butyl ether	ND	200	ug/kg	40	5L21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	210	200	"	"	"	"	"	"	
Toluene	ND	200	"	"	"	"	"	"	
Ethylbenzene	8700	200	"	"	"	"	"	"	
m,p-Xylene	35000	200	"	"	"	"	"	"	
o-Xylene	11000	200	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.8 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*88.4 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*113 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*120 %*		*65-135*		"	"	"	

HP LABS

Eneco Tech Southwest, Inc. 6160 Fairmount Avenue, Suite A San Diego CA, 92120	Project: ETIC120302-L3A Project Number: 686-001 / 11427 Woodside Avenue Project Manager: Mr. Mike Gibbs	Reported: 02-Jan-03

Volatile Organic Compounds by EPA Method 8260B

HP Labs L5

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
B14-30 (E212029-08) Soil Sampled: 06-Dec-02 Received: 17-Dec-02									
Methyl tert-butyl ether	ND	50	ug/kg	10	5L21801	18-Dec-02	18-Dec-02	EPA 8260B	
Benzene	78	50	"	"	"	"	"	"	
Toluene	ND	50	"	"	"	"	"	"	
Ethylbenzene	1900	50	"	"	"	"	"	"	
m,p-Xylene	2100	50	"	"	"	"	"	"	
o-Xylene	1200	50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*91.4 %*		*65-135*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*86.8 %*		*52-149*	"	"	"	"	
Surrogate: Toluene-d8		*125 %*		*65-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*125 %*		*65-135*	"	"	"	"	
B17-32 (E212029-11) Soil Sampled: 06-Dec-02 Received: 17-Dec-02									
Methyl tert-butyl ether	ND	500	ug/kg	100	5L21701	17-Dec-02	17-Dec-02	EPA 8260B	
Benzene	12000	500	"	"	"	"	"	"	
Toluene	ND	500	"	"	"	"	"	"	
Ethylbenzene	18000	500	"	"	"	"	"	"	
m,p-Xylene	57000	500	"	"	"	"	"	"	
o-Xylene	ND	500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*96.2 %*		*65-135*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.4 %*		*52-149*	"	"	"	"	
Surrogate: Toluene-d8		*121 %*		*65-135*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*		*65-135*	"	"	"	"	

HP LABS

Eneco Tech Southwest, Inc. 6160 Fairmount Avenue, Suite A San Diego CA, 92120	Project: ETIC120302-L3A Project Number: 686-001 / 11427 Woodside Avenue Project Manager: Mr. Mike Gibbs	Reported: 02-Jan-03

Volatile Organic Compounds by EPA Method 8260B - Quality Control
HP Labs

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL21801 - EPA 5030										
Blank (EL21801-BLK1)				Prepared & Analyzed: 18-Dec-02						
Methyl tert-butyl ether	ND	1	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
m,p-Xylene	ND	1	"							
o-Xylene	ND	0.500	"							
Surrogate: Dibromofluoromethane	*4.07*		"	*5.00*		*81.4*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*3.61*		"	*5.00*		*72.2*	*62-139*			
Surrogate: Toluene-d8	*4.33*		"	*5.00*		*86.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*4.03*		"	*5.00*		*80.6*	*75-125*			
LCS (EL21801-BS1)				Prepared & Analyzed: 18-Dec-02						
Benzene	4.46	0.500	ug/l	5.00		89.2	75-125			
Toluene	4.27	0.500	"	5.00		85.4	74-125			
Surrogate: Dibromofluoromethane	*4.58*		"	*5.00*		*91.6*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*4.19*		"	*5.00*		*83.8*	*62-139*			
Surrogate: Toluene-d8	*4.51*		"	*5.00*		*90.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*4.48*		"	*5.00*		*89.6*	*75-125*			
Matrix Spike (EL21801-MS1)		**Source: E212033-01**		Prepared & Analyzed: 18-Dec-02						
Benzene	4.12	0.500	ug/l	5.00	ND	82.4	75-125			
Toluene	4.03	0.500	"	5.00	0.2	76.6	74-125			
Surrogate: Dibromofluoromethane	*4.12*		"	*5.00*		*82.4*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*3.83*		"	*5.00*		*76.6*	*62-139*			
Surrogate: Toluene-d8	*4.19*		"	*5.00*		*83.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*4.18*		"	*5.00*		*83.6*	*75-125*			

HP LABS

Eneco Tech Southwest, Inc. 6160 Fairmount Avenue, Suite A San Diego CA, 92120	Project: ETIC120302-L3A Project Number: 686-001 / 11427 Woodside Avenue Project Manager: Mr. Mike Gibbs	Reported: 02-Jan-03

Volatile Organic Compounds by EPA Method 8260B - Quality Control
HP Labs

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL21801 - EPA 5030										
Matrix Spike Dup (EL21801-MSD1)	**Source: E212033-01**			Prepared & Analyzed: 18-Dec-02						
Benzene	4.30	0.500	ug/l	5.00	ND	86.0	75-125	4.28	20	
Toluene	4.23	0.500	"	5.00	0.2	80.6	74-125	4.84	20	
Surrogate: Dibromofluoromethane	*4.18*		"	*5.00*		*83.6*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*3.88*		"	*5.00*		*77.6*	*62-139*			
Surrogate: Toluene-d8	*4.14*		"	*5.00*		*82.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*4.11*		"	*5.00*		*82.2*	*75-125*			

HP LABS

Eneco Tech Southwest, Inc. 6160 Fairmount Avenue, Suite A San Diego CA, 92120	Project: ETIC120302-L3A Project Number: 686-001 / 11427 Woodside Avenue Project Manager: Mr. Mike Gibbs	Reported: 02-Jan-03

Volatile Organic Compounds by EPA Method 8260B - Quality Control

HP Labs L5

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5L21701 - EPA 5035										
Blank (5L21701-BLK1)				Prepared & Analyzed: 17-Dec-02						
Methyl tert-butyl ether	ND	5	ug/kg							
Benzene	ND	5	"							
Toluene	ND	5	"							
Ethylbenzene	ND	5	"							
m,p-Xylene	ND	5	"							
o-Xylene	ND	5	"							
Surrogate: Dibromofluoromethane	*10.9*		"	*10.0*		*109*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*11.0*		"	*10.0*		*110*	*52-149*			
Surrogate: Toluene-d8	*10.0*		"	*10.0*		*100*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*8.29*		"	*10.0*		*82.9*	*65-135*			
Matrix Spike (5L21701-MS1)	**Source: 5212010-05**			Prepared & Analyzed: 17-Dec-02						
Benzene	52.3	5	ug/kg	50.0	0.68	103	65-135			
Toluene	50.3	5	"	50.0	0.70	99.2	64-135			
Surrogate: Dibromofluoromethane	*55.7*		"	*50.0*		*111*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*55.0*		"	*50.0*		*110*	*52-149*			
Surrogate: Toluene-d8	*50.4*		"	*50.0*		*101*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*43.7*		"	*50.0*		*87.4*	*65-135*			
Matrix Spike Dup (5L21701-MSD1)	**Source: 5212010-05**			Prepared & Analyzed: 17-Dec-02						
Benzene	52.9	5	ug/kg	50.0	0.68	104	65-135	1.14	30	
Toluene	49.6	5	"	50.0	0.70	97.8	64-135	1.40	30	
Surrogate: Dibromofluoromethane	*58.6*		"	*50.0*		*117*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*68.6*		"	*50.0*		*137*	*52-149*			
Surrogate: Toluene-d8	*48.8*		"	*50.0*		*97.6*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*39.3*		"	*50.0*		*78.6*	*65-135*			

HP LABS

Eneco Tech Southwest, Inc.	Project: ETIC120302-L3A	
6160 Fairmount Avenue, Suite A	Project Number: 686-001 / 11427 Woodside Avenue	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	02-Jan-03

Volatile Organic Compounds by EPA Method 8260B - Quality Control
HP Labs L5

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5L21801 - EPA 5030 Soil MS										
Blank (5L21801-BLK1)				Prepared & Analyzed: 18-Dec-02						
Methyl tert-butyl ether	ND	5	ug/kg							
Benzene	ND	5	"							
Toluene	ND	5	"							
Ethylbenzene	ND	5	"							
m,p-Xylene	ND	5	"							
o-Xylene	ND	5	"							
Surrogate: Dibromofluoromethane	*10.1*		"	*10.0*		*101*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*9.32*		"	*10.0*		*93.2*	*52-149*			
Surrogate: Toluene-d8	*10.0*		"	*10.0*		*100*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*9.41*		"	*10.0*		*94.1*	*65-135*			
Matrix Spike (5L21801-MS1)	**Source: 5212012-07**			Prepared & Analyzed: 18-Dec-02						
Benzene	50.0	5	ug/kg	50.0	ND	100	65-135			
Toluene	50.2	5	"	50.0	ND	100	64-135			
Surrogate: Dibromofluoromethane	*49.9*		"	*50.0*		*99.8*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*49.2*		"	*50.0*		*98.4*	*52-149*			
Surrogate: Toluene-d8	*54.6*		"	*50.0*		*109*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*54.7*		"	*50.0*		*109*	*65-135*			
Matrix Spike Dup (5L21801-MSD1)	**Source: 5212012-07**			Prepared & Analyzed: 18-Dec-02						
Benzene	49.4	5	ug/kg	50.0	ND	98.8	65-135	1.21	30	
Toluene	48.1	5	"	50.0	ND	96.2	64-135	4.27	30	
Surrogate: Dibromofluoromethane	*51.0*		"	*50.0*		*102*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*52.5*		"	*50.0*		*105*	*52-149*			
Surrogate: Toluene-d8	*52.4*		"	*50.0*		*105*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*50.4*		"	*50.0*		*101*	*65-135*			

HP LABS

Eneco Tech Southwest, Inc.	Project: ETIC120302-L3A	
6160 Fairmount Avenue, Suite A	Project Number: 686-001 / 11427 Woodside Avenue	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	02-Jan-03

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Chain of Custody Record

HP LABS

☑ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/3/02
HPL Project #: ETIC 120302-L3
Outside Lab:

Client: EnviroTech
Address: 6160 FAIRMOUNT AVE. Suite A.
San Diego, CA 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Client Project #: 686-001 TASK 84 24
Location: 11427 Woodside AV. SANTEE
Turn around time: ON-SITE

Page: 1 of 3
Project Manager: MIKE GIBB

Global ID:
EDF: Yes / No

→ — none
— ✓ req. 8015 &/or 8021 done
— NA 8260

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOCs	8260B: VOCs and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX				32102	Total # of containers
B1-25			0939	12/2/02	S	4x Tube	X		X													01	1
B1-30							X		X									X				02	1
B1-32							X		X													03	1
B1-34							X		X													04	1
B1-36							X		X													05	1
B1-38									X													06	1
B1-7.5																						07	1
B1-8.0																						08	1
B1-9.5																						09	1
B1-10																						10	1
B1-20							X															11	1
B1-40																						12	1
B2-7																						13	1
B2-10																						14	1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: 12/3/02	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

12/16/02 MON 14:48 FAX 619 [redacted] 6210
12/16/2002 13:19 760735[redacted]69
HP LABS
PAGE 02
002

Chain of Custody Record

HP LABS

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3200 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/3/02
HPL Project #: ETIL 1203063
Outside Lab:

Client: EnecoTech
Address: 6960 FAIRMOUNT AVE., SUITE A
San Diego, CA. 92120
Phone: 619-222-6210 Fax: 619-299-0087

Collector:
Page: 2 of 3
Client Project #: 636-001 TASK 86.04
Project Manager: MIKE G. BBS
Location: 11427 woodside AV. SANTEE
Turn around time: ON SITE

Global ID:
EDF: Yes / No

Sample Receipt
Intact: Yes ☐ No
Seal Intact: ☐ Yes ☐ No (N/A)
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOCs	8260B: VOC's and Oxygenates	Methane	Fixed Gases	TCE/PCE 8260										3/2/02	Total # of containers
B2-20				12/3/02	S	Ac Tube																						15	—
B2-30							X		X																			16	1
B2-32							X		X									X										17	1
B2-34							X		X																			18	1
B2-40							X		X																			19	1
B3-7							X																					20	1
B3-10							X																					21	1
B3-20							X		X									12/16										22	1
B3-25							X		X																			23	1
B3-30							X		X									X										24	1
B3-32							X		X									X										25	1
B3-34							X		X									X										26	1
B3-36									X																			27	1
B3-40									X																			28	1

Relinquished by: (Signature) (company) EnecoTech
Relinquished by: (Signature) (company)
Relinquished by: (Signature) (company)

Received by: (Signature) (company)
Received by: (Signature) (company) HP LABS
Received by: (Signature) (company)

Date: 12/3/02 Time:
Date: Time:
Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

12/16/02 MON 14:48 FAX 619 [redacted] 6210
12/16/2002 13:19 7607352469 HP LABS PAGE 03 003

Chain of Custody Record

HP LABS

☒ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2379 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2799

Date: 12/3/02
HFL Project #: ETC 120302-13
Outside Lab:

Client: Enco Tech
Address: 6160 Fairmount Ave Suite A
San Diego, CA. 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Page: 3 of 3
Client Project #: 6160-001 Fair 86019
Project Manager: Mike Gibbs
Location: 12478 Woodside Ave. Santee
Turn around time: On-site

Global ID:
EDF: Yes / No

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
☒ N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX						3/1/2006	Total # of containers
B4-7				12/3/02	S	Ac Tube	X		X																29	1
B4-10							X		X																30	1
B4-20							X		X																31	1
B4-30							X		X																32	1
B4-32							X		X																33	1
B4-34							X		X									X							34	1
B4-36							X		X																35	1
B4-38							X		X																36	1
B4-40				↓	↓	↓			X																37	1

Relinquished by: (Signature) (company) Enco Tech
Relinquished by: (Signature) (company)
Relinquished by: (Signature) (company)

Received by: (Signature) (company) HP LABS
Received by: (Signature) (company)
Received by: (Signature) (company)

Date: 12/3/02 Time:
Date: Time:
Date: Time:

Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

12/16/02 MON 14:49 FAX 619 6210
12/16/2002 13:19 7607352469 HP LABS PAGE 04 004

Chain of Custody Record

HP LABS
☒ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/4/02
HPL Project #: ETL120302-13
Outside Lab:

Client: Enecotech
Address: 6160 Fairmount Av., Suite A
San Diego, CA. 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Pages: 1 of 3
Client Project #: 686-001 Task 86 Dig
Project Manager: Mike Gibbs
Location: 11427 Woodside Av., Santee
Turn around time: On-site

Global ID:
EDF: Yes / No

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
☒ N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX				12/2/2010	Total # of containers
EG-30				12/4/02	S	Ac Tube			X													01	
BG-32							X		X									X				02	1
BG-34							X		X													03	1
BG-36									X													04	1
BG-40									X													05	1
B5-7																						06	1
B5-10																						07	1
B5-20							X		X													08	1
B5-28.5							X		X													09	1
B1					W	3 VOAs 1 L	X		X									X				10	4
B3							X		X									X				11	4
B4							X		X									X				12	4
BG-33					S	4oz J	X		X									X				13	1
B2					W	3 VOAs 1 L	X		X									X				14	4

Relinquished by: (Signature) — (company) 12/4/02
Relinquished by: (Signature) — (company)
Relinquished by: (Signature) — (company)

Received by: (Signature) — (company) HP Labs — Date: 12/9/02 — Time:
Received by: (Signature) — (company) — Date: — Time:
Received by: (Signature) — (company) — Date: — Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

12/16/02 MON 14:50 FAX 619 [redacted] 6210
12/16/2002 13:19 7607352469 HP LABS PAGE 05 ☒005

Chain of Custody Record

HP LABS

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/4/02
HPL Project #: ETIC 120802-L3
Outside Lab:

Client: EnecoTech
Address: 6160 Fairmont Av., suite A
San Diego, CA. 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Client Project #: 686-001 TANK B6 OH
Location: 11427 Woodside Av., Santee
Turn around time: ON-SITE

Page: 2 of 3
Project Manager: MIKE GIBBS

Global ID: EDF: Yes / No

Sample Receipt
Intact: Yes ☐ No
Seal Intact: ☐ Yes ☐ No N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX								321010	Total # of containers
B7-25				12/4/02	S	4C Tube			X																		15	1
B7-30									X																		16	1
B7-32							X		X																		17	1
B7-36							X		X																		18	1
B7-40									X																		19	1
B8-25							X		X																		20	1
B8-32							X		X																		21	1
B8-34							X		X																		22	1
B8-36									X																		23	1
B8-38									X																		24	1
B7					W	BIOAS	X		X																		25	1
B6							X		X																		26	5
B4-25					S	4C tube	X		X																		27	1
B4-31							X		X																		28	1

Relinquished by: (Signature) (company) 12/4/02
Relinquished by: (Signature) (company)
Relinquished by: (Signature) (company)

Received by: (Signature) (company) Date: 12/4/02 Time:
Received by: (Signature) (company) Date: Time:
Received by: (Signature) (company) Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

12/16/02 MON 14:50 FAX 619 6210
12/16/2002 13:19 7607352469
HP LABS
PAGE 06
006

Chain of Custody Record

HP LABS
☑ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/9/02
HPL Project #: ETIC120802-L3
Outside Lab:

Client: Enecotech
Address: 6160 Fairmount Av., Suite A
San Diego, CA. 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Client Project #: 886-001 Task B6014
Location: 11427 Woodside Av. Santee
Turn around time: On-site

Page: 3 of 3
Project Manager: Mike G. BBS

Global ID: EDF: Yes / No

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	6021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOCs and Oxygenates	Methane	Fixed Gases	8270 MTBE only			Total # of containers
B9-33'				12/4/02	S	Acetate	X		X									X		29	1
B9-35							X		X											33	1
B9-40																				31	1
B8					W	VOA-S	X		X									X		32	5
B9							X		X									X		33	5

3212010

Relinquished by: (Signature) (company) 12/4/02
Received by: (Signature) (company) HPLabs Date: 12/4/02 Time:
Relinquished by: (Signature) (company) Date: Time:
Received by: (Signature) (company) Date: Time:
Relinquished by: (Signature) (company) Date: Time:
Received by: (Signature) (company) Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

12/16/02 MON 14:51 FAX 619 6210
12/16/2002 13:19 7607352469 HP LABS PAGE 07 007

Chain of Custody Record

HP LABS
☑ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2799

Date: 12/5/02
HPL Project #: EDC 120302-13
Outside Lab:

Client: Enecotech
Address: 6160 FAIRMONT AVE. SUITE A
SANDIEGO, CA. 92120
Phone: Fax:
Collector:
Client Project # 686-001 TASK 06 014
Location: 11427 Woodside AV., SANTEE
Turn around time: ON-SITE
Page: 1 of 2
Project Manager: MIKE GIBBS
Global ID: EDF: Yes / No

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☑ N/A
Cold: ☐ Yes ☐ No
☑ N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 (or BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 BTEX/BTEX	5/0212	Total # of containers
B10-7				12/5/02	S	AC TUBE													01	1
B10-10																			02	1
B10-15																			03	1
B10-20																			04	1
B10-27																			05	1
B10-29																			06	1
B10-30									X										07	1
B10-32									X										08	1
B10-34									X										09	1
B10-40									X										10	1
B10					W	VOAS	X		X									X	11	5
B11-27					Soil	AC Tube													12	1
B11-31									X										13	1
B11-36				↓	↓	↓	X		X									X	14	1

Relinquished by: (Signature) (company)
Received by: (Signature) (company) Date: 12/5/02 Time:
Relinquished by: (Signature) (company)
Received by: (Signature) HP LABS (company) Date: Time:
Relinquished by: (Signature) (company)
Received by: (Signature) (company) Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

12/16/02 MON 14:52 FAX 619 6210
12/16/2002 13:19 7607352469 HP LABS PAGE 08 ☑008

Chain of Custody Record

HP LABS
☒ 146 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/5/02
HPL Project #: ETIC1203073
Outside Lab:

Client: Enacotech
Address: 6160 Fairmount Ave, Suite A
San Diego, CA. 92120
Phone: Fax:

Collector:
Page: 2 of 2
Client Project #: 636-001 TRAIL BG DM
Project Manager: Mike Gibbs
Location: 11427 Woodside Ave, Santee
Turn around time: ON-SITE

Global ID: EDF: Yes / No

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
☒ N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	#16.1 TRPH	8260B BTEX / Oxygenates	8260B Oxygenates	8260B VOCs	8260B VOC's and Oxygenates	Metals	Fixed Gases	Total BTEX 8021								Total # of containers
B11-40				12/5/02	S	Acetate	X		X																	1
B11-45					↓	↓			X																	1
B11					W	VOAs	X		X								X									5
B12-27					S	Acetate																				1
B12-32							X		X																	1
B12-34							X		X								X									1
B12-36							X		X																	1
B12-38'									X																	1
B12-40																										1
B12-42																										1
B12-44																										1

Relinquished by: (Signature) (company)
Relinquished by: (Signature) (company)
Relinquished by: (Signature) (company)

Received by: (Signature) HP LABS (company) Date: 12/5/02 Time:
Received by: (Signature) (company) Date: Time:
Received by: (Signature) (company) Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Dispose @ $2.00 each ☐ Return to client ☐ Pickup

12/16/02 MON 14:52 FAX 619 6210
12/16/2002 13:19 7607352469 HP LABS PAGE 09 009

Chain of Custody Record

HP LABS

☒ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/6/02
HRL Project #: GTIC 120302-L3
Outside Lab:

Client: Enecotech
Address: 6160 FAIRMOUNT AV. SUITE A
SAN DIEGO, CA 92120
Phone: 619-727-6210 Fax: 619-294-0087

Collector:
Client Project # 686-001 TASK 06 014
Location: 11427 WOODSIDE AV. SANTEE
Turn around time: ON-SITE

Page: 1 of 3
Project Manager: MIKE GIBBS

Global ID:
EDF: Yes / No

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates MTBE	8260B: Oxygenates	8260B: VOCs	8260B: VOC's and Oxygenates	Methane	Fixed Gases								5102175	Total # of containers
B13-25				12/5/02	S	AC TUBE			X																01	1
B13-30							X		X																02	1
B13-35							X		X																03	1
B13-40									X																04	1
B13-45																									05	1
B12				12/5/02	W	VOAS	X		X																06	5
B14-7					SOIL	AC TUBE																			07	1
B14-10																									08	1
B14-20																									09	1
B14-25																									10	1
B14-30									X																11	1
B14-35									X																12	1
B14-37									X																13	1
B13					W	VOAS	X		X																14	5

12/16

Relinquished by: (Signature) (company)
Received by: (Signature) (company)
Date: 12/6/02 Time:

Relinquished by: (Signature) (company)
Received by: (Signature) HP LABS (company)
Date: Time:

Relinquished by: (Signature) (company)
Received by: (Signature) (company)
Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of conditions on back.

Sample disposal instruction: ☐ Dispose @ 32.00 each ☐ Return to client ☐ Pickup

12/16/02 MON 14:53 FAX 619 6210
12/16/2002 13:19 7607352469 HP LABS PAGE 10 ☑010

Chain of Custody Record

HP LABS
☑ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/6/02
HPL Project #: ETK 120302-L3
Outside Lab:

Client: EnecoTech
Address: 6160 Fairmount Av., Suite A, San Diego, CA, 92120
Phone: 619-722-6210 Fax: 619-299-0087
Collector:
Client Project #: 686-001 Task 04 019
Location: 11437 Woodside Av., Santee
Turn around time: ON SITE
Page: 2 of 3
Project Manager: Mike Gibbs

Global ID:
EDF: Yes / No

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

| Sample Name | Field Point Name | Depth | Time | Date | Sample Type | Container Type | TPH gas/BTX / diesel | TPH extended | 8021 for BTEX/MTBE | 8021 for Halogenated compounds | 418.1 TRPH | BTEX / Oxygenates 8260B | Oxygenates | VOCs | VOC's and Oxygenates | Methane | Fixed Gases | | |

Chain of Custody Record

HP LABS

☒ 146 S. Vinewood St., Escondido, CA 92029 • ph.760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2829 • fax 310.782.2798

Date: 12/6/02
HPL Project #: ETIC120302-L3
Outside Lab:

Client: ENGLOTECH
Address: 6160 FAIRMOUNT AVE, SUITE A
SAN DIEGO, CA 92120
Phone: 619-722-6210 Fax: 619-299-0087
Collector:
Client Project #: 686-001 TASK B4 214
Location: 11427 WOODSIDE AV., SANTEE
Page: 3 of 3
Project Manager: MIKE GARBS
Turn around time: ON-SITE
Global ID:
EDF: Yes / No

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☑ N/A
Cold: ☐ Yes ☐ No
☑ N/A (Received on Site)

| Sample Name | Field Point Name | Depth | Type | Date | Sample Type | Container Type | TPH gasoline / diesel | TPH extended | 8021 for BTEX/MTBE | 8021 for Halogenated compounds | 418.1 TRPH | BTEX / Oxygenates | 8260B Oxygenates | 8260B VOC's | 8260B VOC's and Oxygenates | Methane | Field Gases | | |

1614 E. Cooley Dr. Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7217 Engineer Rd., Suite A-12, San Diego, CA 92111 (858) 279-1643 FAX (858) 279-1643
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
5464 Chesapeake Ct., Suite 302, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-8689

CHAIN OF CUSTODY FORM

Page ____ of ____

Client Name/Address:	Project/PO Number:
EnviroTech 6160 Fairmount Ave Suite A San Diego, CA	02-01686-001
Project Manager: Mike Gibbs	**Phone Number:** (619) 299-0033
Sampler: Edward Kantos	**Fax Number:** (619) 299-0078

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	8015 GAS + Quasi	8021 BTEX + MTBE	Hold	Hold	Analysis Required				Special Instructions
B17	W	VOA	5	12/6/02	1500	HCL	X	X		X					Confirm BTEX and MTBE by 8260
B14			5	12/6/02	1700	HCL	X	X		X					3212016-01
B13-FP	Product	VOA	1	12/6/02	1510	ICE	X								-02
B18-5'	S	Sleeve	1	12/6/02	1526	ICE			X						03
10'					1530				X						04
15'					1534				X						05
20'					1540				X						06
25'					1548			X			MTBE	Ben			07
32'					1559		X	X		X	ND	ND			08
34'					1604			X		X	.17	ND			09
36'					1619			X		X	.21	ND			10
40'					1625			X			.28	ND			11
											ND	ND			12

Relinquished By:	Date/Time:	Received by:	Date/Time:
	12-9-02 940	Jamie Plaas	12-9-02 940
Relinquished By:	Date/Time:	Received by:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab by:	Date/Time:

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
Intact ____ on ice ____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain-of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Samples(s) will be disposed of after 30 days.

12/16/02 MON 14:56 FAX 619 7607352469 6210
12/16/2002 13:19 HP LABS PAGE 14 014

2464 Arden Ave., Irvine, CA 92660 (949) 261-1022 FAX (949) 261-1228
1614 E. Cooley Ct., Suite A, Ontario, CA 91761 (909) 390-4667 FAX (909) 390-4668
7277 Clairemont Mesa Blvd., Suite B-11, San Diego, CA 92111 (858) 279-1644 FAX (858) 279-1643
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-8689

CHAIN OF CUSTODY FORM

Page 1 of 1

Client Name/Address: EnviroTech
6160 Fairmont Ave Suite A
San Diego, CA

Project Manager: Mike Gibbs

Sampler: Ed Kimbro

Project/PO Number: 02-01686-001

Phone Number: 619 299-0033

Fax Number: 619 299-0087

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required: 8015 Gas + Oxy	8021 BTEX + MTBE	8260 BTEX + MTBE	3212021	Confirm BTEX + MTBE by 8260
B18	W	VOAs	5	12/9/02	0900	HCL	X	X	X		Special Instructions
B17-FP	Product	VOA	1	12/9/02	1000	ICE	X			03	

Relinquished By: [signature] Date/Time: 12/10/02 0800

Relinquished By: Date/Time:

Relinquished By: Date/Time:

Received by: Tonia Phelps Date/Time: 12/10 945

Received by: Date/Time:

Received in Lab by: Date/Time:

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact ____ on ice ____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

12/16/02 MON 14:55 FAX 619 6210
12/15/2002 13:19 7607352469 HP LABS PAGE 13 013

1114 E. Cooley Dr., Suite J, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1045
7277 Hayvenhurst, Suite 6-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
5464 Clairemont Dr., Suite 164, San Diego, CA 92123 (858) 505-8596 FAX (858) 505-8689

CHAIN OF CUSTODY FORM

Page 1 of 1

Client Name/Address: EnviroTech
6140 Fairmount Ave Suite B
San Diego, CA

Project Manager: Mike Gibbs

Sampler: Ed Kuntas

Project/PO Number: 02-01686-001

Phone Number: 619 299-0033

Fax Number: 619 299-0087

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	BDIT 602+ Oxy	32/8270	Special Instructions
MW2-FP	Product	Vial	1	12/10/02	1300	ICE	X	X	Do not puncture septum. Please return sample when finished
MW3-FP	↓	↓	↓	↓	1300	↓	X	X	

-01
02

Relinquished By: [signature] Date/Time: 12/10/02 0945

Relinquished By: Date/Time:

Relinquished By: Date/Time:

Received by: Jamie Phelps Date/Time: 12/10/02 945

Received by: Date/Time:

Received by Lab by: Date/Time:

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
Intact ____ on Ice ____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

12/16/02 MON 14:56 FAX 619 760 6210
12/16/2002 13:19 7607352469 HP LABS PAGE 15 015

Quality Control and Chain of Custody Forms

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

TPH by GC FID - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L20402 - LUFT-DHS										
Blank (3L20402-BLK1)				Prepared & Analyzed: 03-Dec-02						
Diesel	ND	10	mg/kg							
Gasoline	ND	10	"							
Matrix Spike (3L20402-MS1)		Source: 3212008-02		Prepared & Analyzed: 03-Dec-02						
Diesel	233	10	mg/kg	251	ND	92.8	67-125			
Gasoline	143	10	"	151	ND	94.7	67-125			
Matrix Spike Dup (3L20402-MSD1)		Source: 3212008-02		Prepared & Analyzed: 03-Dec-02						
Diesel	233	10	mg/kg	251	ND	92.8	67-125	0.00	30	
Gasoline	151	10	"	151	ND	100	67-125	5.44	30	
Batch 3L20405 - LUFT-DHS										
Blank (3L20405-BLK1)				Prepared & Analyzed: 04-Dec-02						
Diesel	ND	10	mg/kg							
Gasoline	ND	10	"							
Matrix Spike (3L20405-MS1)		Source: 3212010-03		Prepared & Analyzed: 04-Dec-02						
Diesel	233	10	mg/kg	251	ND	92.8	67-125			
Gasoline	136	10	"	151	ND	90.1	67-125			
Matrix Spike (3L20405-MS2)		Source: 3212006-01		Prepared & Analyzed: 04-Dec-02						
Diesel	239	10	mg/kg	251	ND	95.2	67-125			
Gasoline	139	10	"	151	ND	92.1	67-125			
Matrix Spike Dup (3L20405-MSD1)		Source: 3212010-03		Prepared & Analyzed: 04-Dec-02						
Diesel	241	10	mg/kg	251	ND	96.0	67-125	3.38	30	
Gasoline	142	10	"	151	ND	94.0	67-125	4.32	30	

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

TPH by GC FID - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L20405 - LUFT-DHS										
Matrix Spike Dup (3L20405-MSD2)	**Source: 3212006-01**			Prepared & Analyzed: 04-Dec-02						
Diesel	235	10	mg/kg	251	ND	93.6	67-125	1.69	30	
Gasoline	137	10	"	151	ND	90.7	67-125	1.45	30	
Batch 3L20601 - LUFT-DHS										
Blank (3L20601-BLK1)				Prepared & Analyzed: 05-Dec-02						
Diesel	ND	500	ug/l							
Gasoline	ND	500	"							
LCS (3L20601-BS1)				Prepared & Analyzed: 05-Dec-02						
Diesel	2710	500	ug/l	2510		108	67-125			
Gasoline	1630	500	"	1510		108	67-135			
LCS (3L20601-BS2)				Prepared & Analyzed: 05-Dec-02						
Diesel	2520	500	ug/l	2510		100	67-125			
Gasoline	1780	500	"	1510		118	67-135			
LCS Dup (3L20601-BSD1)				Prepared & Analyzed: 05-Dec-02						
Diesel	2780	500	ug/l	2510		111	67-125	2.55	30	
Gasoline	1810	500	"	1510		120	67-135	10.5	30	
LCS Dup (3L20601-BSD2)				Prepared & Analyzed: 05-Dec-02						
Diesel	2630	500	ug/l	2510		105	67-125	4.27	30	
Gasoline	1610	500	"	1510		107	67-135	10.0	30	
Batch 3L20602 - LUFT-DHS										
Blank (3L20602-BLK1)				Prepared & Analyzed: 05-Dec-02						
Diesel	ND	10	mg/kg							

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

TPH by GC FID - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L20602 - LUFT-DHS										
Blank (3L20602-BLK1)				Prepared & Analyzed: 05-Dec-02						
Gasoline	ND	10	mg/kg							
Matrix Spike (3L20602-MS1)			Source: 3212013-01	Prepared & Analyzed: 05-Dec-02						
Diesel	261	10	mg/kg	251	ND	104	67-125			
Gasoline	145	10	"	151	ND	96.0	67-125			
Matrix Spike Dup (3L20602-MSD1)			Source: 3212013-01	Prepared & Analyzed: 05-Dec-02						
Diesel	247	10	mg/kg	251	ND	98.4	67-125	5.51	30	
Gasoline	145	10	"	151	ND	96.0	67-125	0.00	30	
Batch 3L21001 - LUFT-DHS										
Blank (3L21001-BLK1)				Prepared & Analyzed: 06-Dec-02						
Diesel	ND	10	mg/kg							
Gasoline	ND	10	"							
Matrix Spike (3L21001-MS1)			Source: 3212014-19	Prepared & Analyzed: 06-Dec-02						
Diesel	249	10	mg/kg	251	ND	99.2	67-125			
Gasoline	152	10	"	151	ND	101	67-125			
Matrix Spike Dup (3L21001-MSD1)			Source: 3212014-19	Prepared & Analyzed: 06-Dec-02						
Diesel	250	10	mg/kg	251	ND	99.6	67-125	0.401	30	
Gasoline	151	10	"	151	ND	100	67-125	0.660	30	
Batch 3L21002 - LUFT-DHS										
Blank (3L21002-BLK1)				Prepared & Analyzed: 06-Dec-02						
Diesel	ND	500	ug/l							
Gasoline	ND	500	"							

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

TPH by GC FID - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L21002 - LUFT-DHS										
LCS (3L21002-BS1)				Prepared & Analyzed: 06-Dec-02						
Diesel	2560	500	ug/l	2510		102	67-125			
Gasoline	1630	500	"	1510		108	67-135			
LCS Dup (3L21002-BSD1)				Prepared & Analyzed: 06-Dec-02						
Diesel	2700	500	ug/l	2510		108	67-125	5.32	30	
Gasoline	1590	500	"	1510		105	67-135	2.48	30	
Batch 3L21003 - LUFT-DHS										
Blank (3L21003-BLK1)				Prepared & Analyzed: 09-Dec-02						
Diesel	ND	10	mg/kg							
Gasoline	ND	10	"							
Matrix Spike (3L21003-MS1)	Source: 3212015-40			Prepared & Analyzed: 09-Dec-02						
Diesel	247	10	mg/kg	251	ND	98.4	67-125			
Gasoline	147	10	"	151	ND	97.4	67-125			
Matrix Spike Dup (3L21003-MSD1)	Source: 3212015-40			Prepared & Analyzed: 09-Dec-02						
Diesel	248	10	mg/kg	251	ND	98.8	67-125	0.404	30	
Gasoline	147	10	"	151	ND	97.4	67-125	0.00	30	
Batch 3L21004 - LUFT-DHS										
Blank (3L21004-BLK1)				Prepared & Analyzed: 09-Dec-02						
Diesel	ND	500	ug/l							
Gasoline	ND	500	"							

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

TPH by GC FID - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L21004 - LUFT-DHS										
LCS (3L21004-BS1)				Prepared & Analyzed: 09-Dec-02						
Diesel	2560	500	ug/l	2510		102	67-125			
Gasoline	1630	500	"	1510		108	67-135			
LCS Dup (3L21004-BSD1)				Prepared & Analyzed: 09-Dec-02						
Diesel	2210	500	ug/l	2510		88.0	67-125	14.7	30	
Gasoline	1540	500	"	1510		102	67-135	5.68	30	
Batch 3L21302 - LUFT-DHS										
Blank (3L21302-BLK1)				Prepared & Analyzed: 11-Dec-02						
Diesel	ND	500	ug/l							
Gasoline	ND	500	"							
LCS (3L21302-BS1)				Prepared & Analyzed: 11-Dec-02						
Diesel	2870	500	ug/l	2510		114	67-125			
Gasoline	1570	500	"	1510		104	67-135			
LCS Dup (3L21302-BSD1)				Prepared & Analyzed: 11-Dec-02						
Diesel	2700	500	ug/l	2510		108	67-125	6.10	30	
Gasoline	1800	500	"	1510		119	67-135	13.6	30	
Batch 3L21702 - LUFT-DHS										
Blank (3L21702-BLK1)				Prepared & Analyzed: 17-Dec-02						
Diesel	ND	10	mg/kg							
Gasoline	ND	10	"							

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

TPH by GC FID - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L21702 - LUFT-DHS										
Matrix Spike (3L21702-MS1)	**Source: 3212010-27**			Prepared & Analyzed: 17-Dec-02						
Diesel	242	10	mg/kg	251	ND	96.4	67-125			
Gasoline	149	10	"	151	ND	98.7	67-125			
Matrix Spike Dup (3L21702-MSD1)	**Source: 3212010-27**			Prepared & Analyzed: 17-Dec-02						
Diesel	229	10	mg/kg	251	ND	91.2	67-125	5.52	30	
Gasoline	145	10	"	151	ND	96.0	67-125	2.72	30	

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

BTEX by 8021B - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L20403 - EPA 5030 Soil GC										
Blank (3L20403-BLK1)				Prepared & Analyzed: 03-Dec-02						
Methyl tert-butyl ether	ND	0.100	mg/kg							
Benzene	ND	0.050	"							
Toluene	ND	0.050	"							
Ethylbenzene	ND	0.050	"							
Xylenes (total)	ND	0.150	"							
Surrogate: a,a,a-Trifluorotoluene	*0.0870*		"	*0.100*		*87.0*	*60-140*			
Blank (3L20403-BLK2)				Prepared & Analyzed: 03-Dec-02						
Methyl tert-butyl ether	ND	0.100	mg/kg							
Benzene	ND	0.050	"							
Toluene	ND	0.050	"							
Ethylbenzene	ND	0.050	"							
Xylenes (total)	ND	0.150	"							
Surrogate: a,a,a-Trifluorotoluene	*0.109*		"	*0.100*		*109*	*60-140*			
Matrix Spike (3L20403-MS1)		Source: 3212006-19		Prepared & Analyzed: 03-Dec-02						
Methyl tert-butyl ether	0.760	0.100	mg/kg	1.00	ND	76.0	60-125			
Benzene	0.085	0.050	"	0.100	ND	85.0	60-125			
Toluene	0.088	0.050	"	0.100	ND	88.0	59-125			
Ethylbenzene	0.090	0.050	"	0.100	ND	90.0	52-125			
Xylenes (total)	0.267	0.150	"	0.300	ND	89.0	60-127			
Surrogate: a,a,a-Trifluorotoluene	*0.0860*		"	*0.100*		*86.0*	*60-140*			
Matrix Spike (3L20403-MS2)		Source: 3212006-16		Prepared & Analyzed: 03-Dec-02						
Methyl tert-butyl ether	0.992	0.100	mg/kg	1.00	ND	99.2	60-125			
Benzene	0.112	0.050	"	0.100	ND	112	60-125			

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

BTEX by 8021B - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L20403 - EPA 5030 Soil GC										
Matrix Spike (3L20403-MS2)		**Source: 3212006-16**		Prepared & Analyzed: 03-Dec-02						
Toluene	0.107	0.050	mg/kg	0.100	ND	107	59-125			
Ethylbenzene	0.111	0.050	"	0.100	ND	111	52-125			
Xylenes (total)	0.334	0.150	"	0.300	ND	111	60-127			
Surrogate: a,a,a-Trifluorotoluene	*0.109*		"	*0.100*		*109*	*60-140*			
Matrix Spike Dup (3L20403-MSD1)		**Source: 3212006-19**		Prepared & Analyzed: 03-Dec-02						
Methyl tert-butyl ether	0.944	0.100	mg/kg	1.00	ND	94.4	60-125	21.6	30	
Benzene	0.099	0.050	"	0.100	ND	99.0	60-125	15.2	30	
Toluene	0.100	0.050	"	0.100	ND	100	59-125	12.8	30	
Ethylbenzene	0.102	0.050	"	0.100	ND	102	52-125	12.5	30	
Xylenes (total)	0.299	0.150	"	0.300	ND	99.7	60-127	11.3	30	
Surrogate: a,a,a-Trifluorotoluene	*0.0980*		"	*0.100*		*98.0*	*60-140*			
Matrix Spike Dup (3L20403-MSD2)		**Source: 3212006-16**		Prepared & Analyzed: 03-Dec-02						
Methyl tert-butyl ether	0.984	0.100	mg/kg	1.00	ND	98.4	60-125	0.810	30	
Benzene	0.102	0.050	"	0.100	ND	102	60-125	9.35	30	
Toluene	0.101	0.050	"	0.100	ND	101	59-125	5.77	30	
Ethylbenzene	0.103	0.050	"	0.100	ND	103	52-125	7.48	30	
Xylenes (total)	0.311	0.150	"	0.300	ND	104	60-127	7.13	30	
Surrogate: a,a,a-Trifluorotoluene	*0.102*		"	*0.100*		*102*	*60-140*			
Batch 3L20603 - EPA 5030 Soil GC										
Blank (3L20603-BLK1)				Prepared & Analyzed: 04-Dec-02						
Methyl tert-butyl ether	ND	0.100	mg/kg							
Benzene	ND	0.050	"							
Toluene	ND	0.050	"							

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

BTEX by 8021B - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L20603 - EPA 5030 Soil GC										
Blank (3L20603-BLK1)				Prepared & Analyzed: 04-Dec-02						
Ethylbenzene	ND	0.050	"							
Xylenes (total)	ND	0.150	"							
Surrogate: a,a,a-Trifluorotoluene	*0.0940*		"	*0.100*		*94.0*	*60-140*			
Blank (3L20603-BLK2)				Prepared & Analyzed: 04-Dec-02						
Methyl tert-butyl ether	ND	0.100	mg/kg							
Benzene	ND	0.050	"							
Toluene	ND	0.050	"							
Ethylbenzene	ND	0.050	"							
Xylenes (total)	ND	0.150	"							
Surrogate: a,a,a-Trifluorotoluene	*0.105*		"	*0.100*		*105*	*60-140*			
Matrix Spike (3L20603-MS1)		Source: 3212006-30		Prepared & Analyzed: 04-Dec-02						
Methyl tert-butyl ether	0.981	0.100	mg/kg	1.00	ND	98.1	60-125			
Benzene	0.096	0.050	"	0.100	ND	96.0	60-125			
Toluene	0.098	0.050	"	0.100	ND	98.0	59-125			
Ethylbenzene	0.097	0.050	"	0.100	ND	97.0	52-125			
Xylenes (total)	0.289	0.150	"	0.300	ND	96.3	60-127			
Surrogate: a,a,a-Trifluorotoluene	*0.0900*		"	*0.100*		*90.0*	*60-140*			
Matrix Spike (3L20603-MS2)		Source: 3212006-31		Prepared & Analyzed: 04-Dec-02						
Methyl tert-butyl ether	0.870	0.100	mg/kg	1.00	ND	87.0	60-125			
Benzene	0.099	0.050	"	0.100	ND	99.0	60-125			
Toluene	0.096	0.050	"	0.100	ND	96.0	59-125			
Ethylbenzene	0.098	0.050	"	0.100	ND	98.0	52-125			
Xylenes (total)	0.298	0.150	"	0.300	ND	99.3	60-127			

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

BTEX by 8021B - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L20603 - EPA 5030 Soil GC										
Matrix Spike (3L20603-MS2)	Source: 3212006-31			Prepared & Analyzed: 04-Dec-02						
Surrogate: a,a,a-Trifluorotoluene	*0.0970*		*mg/kg*	*0.100*		*97.0*	*60-140*			
Matrix Spike Dup (3L20603-MSD1)	Source: 3212006-30			Prepared & Analyzed: 04-Dec-02						
Methyl tert-butyl ether	0.893	0.100	mg/kg	1.00	ND	89.3	60-125	9.39	30	
Benzene	0.088	0.050	"	0.100	ND	88.0	60-125	8.70	30	
Toluene	0.092	0.050	"	0.100	ND	92.0	59-125	6.32	30	
Ethylbenzene	0.095	0.050	"	0.100	ND	95.0	52-125	2.08	30	
Xylenes (total)	0.278	0.150	"	0.300	ND	92.7	60-127	3.88	30	
Surrogate: a,a,a-Trifluorotoluene	*0.0850*		"	*0.100*		*85.0*	*60-140*			
Matrix Spike Dup (3L20603-MSD2)	Source: 3212006-31			Prepared & Analyzed: 04-Dec-02						
Methyl tert-butyl ether	0.977	0.100	mg/kg	1.00	ND	97.7	60-125	11.6	30	
Benzene	0.102	0.050	"	0.100	ND	102	60-125	2.99	30	
Toluene	0.101	0.050	"	0.100	ND	101	59-125	5.08	30	
Ethylbenzene	0.102	0.050	"	0.100	ND	102	52-125	4.00	30	
Xylenes (total)	0.311	0.150	"	0.300	ND	104	60-127	4.27	30	
Surrogate: a,a,a-Trifluorotoluene	*0.0990*		"	*0.100*		*99.0*	*60-140*			
Batch 3L20604 - EPA 5030 Water GC										
Blank (3L20604-BLK1)				Prepared & Analyzed: 05-Dec-02						
Methyl tert-butyl ether	ND	20	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	2	"							

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

BTEX by 8021B - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L20604 - EPA 5030 Water GC										
Blank (3L20604-BLK1)				Prepared & Analyzed: 05-Dec-02						
Surrogate: a,a,a-Trifluorotoluene	*8.69*		*ug/l*	*10.0*		*86.9*	*60-140*			
LCS (3L20604-BS1)				Prepared & Analyzed: 05-Dec-02						
Methyl tert-butyl ether	99.3	20	ug/l	100		99.3	60-125			
Benzene	9.70	0.500	"	10.0		97.0	69-125			
Toluene	9.80	0.500	"	10.0		98.0	63-125			
Ethylbenzene	9.65	0.500	"	10.0		96.5	60-125			
Xylenes (total)	28.6	2	"	30.0		95.3	57-127			
Surrogate: a,a,a-Trifluorotoluene	*9.48*		*"*	*10.0*		*94.8*	*60-140*			
LCS Dup (3L20604-BSD1)				Prepared & Analyzed: 05-Dec-02						
Methyl tert-butyl ether	91.2	20	ug/l	100		91.2	60-125	8.50	30	
Benzene	10.4	0.500	"	10.0		104	69-125	6.97	30	
Toluene	10.2	0.500	"	10.0		102	63-125	4.00	30	
Ethylbenzene	10.3	0.500	"	10.0		103	60-125	6.52	30	
Xylenes (total)	31.4	2	"	30.0		105	57-127	9.33	30	
Surrogate: a,a,a-Trifluorotoluene	*10.0*		*"*	*10.0*		*100*	*60-140*			
Batch 3L20605 - EPA 5030 Soil GC										
Blank (3L20605-BLK1)				Prepared & Analyzed: 05-Dec-02						
Methyl tert-butyl ether	ND	0.100	mg/kg							
Benzene	ND	0.050	"							
Toluene	ND	0.050	"							
Ethylbenzene	ND	0.050	"							
Xylenes (total)	ND	0.150	"							

HP LABS

EnccoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

BTEX by 8021B - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L20605 - EPA 5030 Soil GC										
Blank (3L20605-BLK1)				Prepared & Analyzed: 05-Dec-02						
Surrogate: a,a,a-Trifluorotoluene	*0.0870*		*mg/kg*	*0.100*		*87.0*	*60-140*			
Matrix Spike (3L20605-MS1)		Source: 3212014-07		Prepared & Analyzed: 05-Dec-02						
Methyl tert-butyl ether	0.830	0.100	mg/kg	1.00	ND	83.0	60-125			
Benzene	0.086	0.050	"	0.100	ND	86.0	60-125			
Toluene	0.088	0.050	"	0.100	ND	88.0	59-125			
Ethylbenzene	0.093	0.050	"	0.100	ND	93.0	52-125			
Xylenes (total)	0.269	0.150	"	0.300	ND	89.7	60-127			
Surrogate: a,a,a-Trifluorotoluene	*0.0830*		*"*	*0.100*		*83.0*	*60-140*			
Matrix Spike Dup (3L20605-MSD1)		Source: 3212014-07		Prepared & Analyzed: 05-Dec-02						
Methyl tert-butyl ether	0.919	0.100	mg/kg	1.00	ND	91.9	60-125	10.2	30	
Benzene	0.106	0.050	"	0.100	ND	106	60-125	20.8	30	
Toluene	0.106	0.050	"	0.100	ND	106	59-125	18.6	30	
Ethylbenzene	0.109	0.050	"	0.100	ND	109	52-125	15.8	30	
Xylenes (total)	0.330	0.150	"	0.300	ND	110	60-127	20.4	30	
Surrogate: a,a,a-Trifluorotoluene	*0.102*		*"*	*0.100*		*102*	*60-140*			
Batch 3L21202 - EPA 5030 Water GC										
Blank (3L21202-BLK1)				Prepared & Analyzed: 11-Dec-02						
Methyl tert-butyl ether	ND	20	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	2	"							

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L21202 - EPA 5030 Water GC										
Blank (3L21202-BLK1)				Prepared & Analyzed: 11-Dec-02						
Surrogate: a,a,a-Trifluorotoluene	*10.5*		*ug/l*	*10.0*		*105*	*60-140*			
LCS (3L21202-BS1)				Prepared & Analyzed: 11-Dec-02						
Methyl tert-butyl ether	91.6	20	ug/l	100		91.6	60-125			
Benzene	11.1	0.500	"	10.0		111	69-125			
Toluene	10.9	0.500	"	10.0		109	63-125			
Ethylbenzene	11.1	0.500	"	10.0		111	60-125			
Xylenes (total)	33.3	2	"	30.0		111	57-127			
Surrogate: a,a,a-Trifluorotoluene	*10.3*		"	*10.0*		*103*	*60-140*			
LCS Dup (3L21202-BSD1)				Prepared & Analyzed: 11-Dec-02						
Methyl tert-butyl ether	121	20	ug/l	100		121	60-125	27.7	30	
Benzene	10.2	0.500	"	10.0		102	69-125	8.45	30	
Toluene	10.1	0.500	"	10.0		101	63-125	7.62	30	
Ethylbenzene	10.2	0.500	"	10.0		102	60-125	8.45	30	
Xylenes (total)	30.3	2	"	30.0		101	57-127	9.43	30	
Surrogate: a,a,a-Trifluorotoluene	*9.55*		"	*10.0*		*95.5*	*60-140*			
Batch 3L21203 - EPA 5030 Soil GC										
Blank (3L21203-BLK1)				Prepared & Analyzed: 06-Dec-02						
Methyl tert-butyl ether	ND	0.100	mg/kg							
Benzene	ND	0.050	"							
Toluene	ND	0.050	"							
Ethylbenzene	ND	0.050	"							
Xylenes (total)	ND	0.150	"							

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L21203 - EPA 5030 Soil GC										
Blank (3L21203-BLK1)				Prepared & Analyzed: 06-Dec-02						
Surrogate: a,a,a-Trifluorotoluene	*0.0980*		*mg/kg*	*0.100*		*98.0*	*60-140*			
Matrix Spike (3L21203-MS1)		Source: 3212010-16		Prepared & Analyzed: 12-Dec-02						
Methyl tert-butyl ether	0.788	0.100	mg/kg	1.00	ND	78.8	60-125			
Benzene	0.115	0.050	"	0.100	ND	115	60-125			
Toluene	0.110	0.050	"	0.100	ND	110	59-125			
Ethylbenzene	0.112	0.050	"	0.100	ND	112	52-125			
Xylenes (total)	0.339	0.150	"	0.300	ND	113	60-127			
Surrogate: a,a,a-Trifluorotoluene	*0.105*		*"*	*0.100*		*105*	*60-140*			
Matrix Spike Dup (3L21203-MSD1)		Source: 3212010-16		Prepared & Analyzed: 12-Dec-02						
Methyl tert-butyl ether	1.04	0.100	mg/kg	1.00	ND	104	60-125	27.6	30	
Benzene	0.112	0.050	"	0.100	ND	112	60-125	2.64	30	
Toluene	0.108	0.050	"	0.100	ND	108	59-125	1.83	30	
Ethylbenzene	0.111	0.050	"	0.100	ND	111	52-125	0.897	30	
Xylenes (total)	0.335	0.150	"	0.300	ND	112	60-127	1.19	30	
Surrogate: a,a,a-Trifluorotoluene	*0.0980*		*"*	*0.100*		*98.0*	*60-140*			
Batch 3L21204 - EPA 5030 Water GC										
Blank (3L21204-BLK1)				Prepared & Analyzed: 06-Dec-02						
Methyl tert-butyl ether	ND	20	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	2	"							

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L21204 - EPA 5030 Water GC										
Blank (3L21204-BLK1)				Prepared & Analyzed: 06-Dec-02						
Surrogate: a,a,a-Trifluorotoluene	*10.7*		*ug/l*	*10.0*		*107*	*60-140*			
LCS (3L21204-BS1)				Prepared & Analyzed: 06-Dec-02						
Methyl tert-butyl ether	80.2	20	ug/l	100		80.2	60-125			
Benzene	9.17	0.500	"	10.0		91.7	69-125			
Toluene	9.62	0.500	"	10.0		96.2	63-125			
Ethylbenzene	10.2	0.500	"	10.0		102	60-125			
Xylenes (total)	29.6	2	"	30.0		98.7	57-127			
Surrogate: a,a,a-Trifluorotoluene	*8.96*		*"*	*10.0*		*89.6*	*60-140*			
LCS Dup (3L21204-BSD1)				Prepared & Analyzed: 06-Dec-02						
Methyl tert-butyl ether	88.1	20	ug/l	100		88.1	60-125	9.39	30	
Benzene	10.2	0.500	"	10.0		102	69-125	10.6	30	
Toluene	9.83	0.500	"	10.0		98.3	63-125	2.16	30	
Ethylbenzene	10.3	0.500	"	10.0		103	60-125	0.976	30	
Xylenes (total)	32.3	2	"	30.0		108	57-127	8.72	30	
Surrogate: a,a,a-Trifluorotoluene	*9.57*		*"*	*10.0*		*95.7*	*60-140*			
Batch 3L21205 - EPA 5030 Soil GC										
Blank (3L21205-BLK1)				Prepared & Analyzed: 09-Dec-02						
Methyl tert-butyl ether	ND	0.100	mg/kg							
Benzene	ND	0.050	"							
Toluene	ND	0.050	"							
Ethylbenzene	ND	0.050	"							
Xylenes (total)	ND	0.150	"							

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

BTEX by 8021B - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L21205 - EPA 5030 Soil GC										
Blank (3L21205-BLK1)				Prepared & Analyzed: 09-Dec-02						
Surrogate: a,a,a-Trifluorotoluene	*0.104*		*mg/kg*	*0.100*		*104*	*60-140*			
Matrix Spike (3L21205-MS1)		Source: 3212015-41		Prepared & Analyzed: 09-Dec-02						
Methyl tert-butyl ether	0.866	0.100	mg/kg	1.00	ND	86.6	60-125			
Benzene	0.096	0.050	"	0.100	ND	96.0	60-125			
Toluene	0.102	0.050	"	0.100	ND	102	59-125			
Ethylbenzene	0.108	0.050	"	0.100	ND	108	52-125			
Xylenes (total)	0.313	0.150	"	0.300	ND	104	60-127			
Surrogate: a,a,a-Trifluorotoluene	*0.0920*		*"*	*0.100*		*92.0*	*60-140*			
Matrix Spike Dup (3L21205-MSD1)		Source: 3212015-41		Prepared & Analyzed: 09-Dec-02						
Methyl tert-butyl ether	1.02	0.100	mg/kg	1.00	ND	102	60-125	16.3	30	
Benzene	0.098	0.050	"	0.100	ND	98.0	60-125	2.06	30	
Toluene	0.104	0.050	"	0.100	ND	104	59-125	1.94	30	
Ethylbenzene	0.110	0.050	"	0.100	ND	110	52-125	1.83	30	
Xylenes (total)	0.321	0.150	"	0.300	ND	107	60-127	2.52	30	
Surrogate: a,a,a-Trifluorotoluene	*0.0970*		*"*	*0.100*		*97.0*	*60-140*			
Batch 3L21601 - EPA 5030 Water GC										
Blank (3L21601-BLK1)				Prepared & Analyzed: 09-Dec-02						
Methyl tert-butyl ether	ND	20	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	2	"							

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

BTEX by 8021B - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L21601 - EPA 5030 Water GC										
Blank (3L21601-BLK1)				Prepared & Analyzed: 09-Dec-02						
Surrogate: a,a,a-Trifluorotoluene	*9.40*		*ug/l*	*10.0*		*94.0*	*60-140*			
LCS (3L21601-BS1)				Prepared & Analyzed: 09-Dec-02						
Methyl tert-butyl ether	106	20	ug/l	100		106	60-125			
Benzene	10.0	0.500	"	10.0		100	69-125			
Toluene	10.5	0.500	"	10.0		105	63-125			
Ethylbenzene	11.2	0.500	"	10.0		112	60-125			
Xylenes (total)	32.3	2	"	30.0		108	57-127			
Surrogate: a,a,a-Trifluorotoluene	*9.70*		*"*	*10.0*		*97.0*	*60-140*			
LCS Dup (3L21601-BSD1)				Prepared & Analyzed: 09-Dec-02						
Methyl tert-butyl ether	115	20	ug/l	100		115	60-125	8.14	30	
Benzene	10.4	0.500	"	10.0		104	69-125	3.92	30	
Toluene	11.0	0.500	"	10.0		110	63-125	4.65	30	
Ethylbenzene	11.7	0.500	"	10.0		117	60-125	4.37	30	
Xylenes (total)	34.0	2	"	30.0		113	57-127	5.13	30	
Surrogate: a,a,a-Trifluorotoluene	*9.67*		*"*	*10.0*		*96.7*	*60-140*			
Batch 3L21703 - EPA 5030 Soil GC										
Blank (3L21703-BLK1)				Prepared & Analyzed: 17-Dec-02						
Methyl tert-butyl ether	ND	0.100	mg/kg							
Benzene	ND	0.050	"							
Toluene	ND	0.050	"							
Ethylbenzene	ND	0.050	"							
Xylenes (total)	ND	0.150	"							

HP LABS

EnecoTech 6160 Fairmount Ave., Suite A San Diego CA, 92120	Project: ETIC120302-L3 Project Number: 02-01686-001 Project Manager: Mr. Mike Gibbs	Reported: 30-Dec-02

BTEX by 8021B - Quality Control
HP Labs L3

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3L21703 - EPA 5030 Soil GC										
Blank (3L21703-BLK1)				Prepared & Analyzed: 17-Dec-02						
Surrogate: a,a,a-Trifluorotoluene	*0.0920*		*mg/kg*	*0.100*		*92.0*	*60-140*			
Matrix Spike (3L21703-MS1)		Source: 3212010-27		Prepared & Analyzed: 17-Dec-02						
Methyl tert-butyl ether	0.839	0.100	mg/kg	1.00	ND	83.9	60-125			
Benzene	0.093	0.050	"	0.100	ND	93.0	60-125			
Toluene	0.097	0.050	"	0.100	ND	97.0	59-125			
Ethylbenzene	0.102	0.050	"	0.100	ND	102	52-125			
Xylenes (total)	0.296	0.150	"	0.300	ND	98.7	60-127			
Surrogate: a,a,a-Trifluorotoluene	*0.0860*		*"*	*0.100*		*86.0*	*60-140*			
Matrix Spike Dup (3L21703-MSD1)		Source: 3212010-27		Prepared & Analyzed: 17-Dec-02						
Methyl tert-butyl ether	0.951	0.100	mg/kg	1.00	ND	95.1	60-125	12.5	30	
Benzene	0.106	0.050	"	0.100	ND	106	60-125	13.1	30	
Toluene	0.108	0.050	"	0.100	ND	108	59-125	10.7	30	
Ethylbenzene	0.109	0.050	"	0.100	ND	109	52-125	6.64	30	
Xylenes (total)	0.326	0.150	"	0.300	ND	109	60-127	9.65	30	
Surrogate: a,a,a-Trifluorotoluene	*0.0980*		*"*	*0.100*		*98.0*	*60-140*			

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B - Quality Control
HP Labs

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL21701 - EPA 5030										
Blank (EL21701-BLK1)				Prepared & Analyzed: 17-Dec-02						
Methyl tert-butyl ether	ND	1	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
m,p-Xylene	ND	1	"							
o-Xylene	ND	0.500	"							
Surrogate: Dibromofluoromethane	*4.19*		"	*5.00*		*83.8*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*3.74*		"	*5.00*		*74.8*	*62-139*			
Surrogate: Toluene-d8	*4.40*		"	*5.00*		*88.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*4.33*		"	*5.00*		*86.6*	*75-125*			
LCS (EL21701-BS1)				Prepared & Analyzed: 17-Dec-02						
Benzene	4.25	0.500	ug/l	5.00		85.0	75-125			
Toluene	4.31	0.500	"	5.00		86.2	74-125			
Surrogate: Dibromofluoromethane	*4.16*		"	*5.00*		*83.2*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*3.69*		"	*5.00*		*73.8*	*62-139*			
Surrogate: Toluene-d8	*4.34*		"	*5.00*		*86.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*4.20*		"	*5.00*		*84.0*	*75-125*			
LCS Dup (EL21701-BSD1)				Prepared & Analyzed: 17-Dec-02						
Benzene	4.32	0.500	ug/l	5.00		86.4	75-125	1.63	20	
Toluene	4.20	0.500	"	5.00		84.0	74-125	2.59	20	
Surrogate: Dibromofluoromethane	*4.30*		"	*5.00*		*86.0*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*4.08*		"	*5.00*		*81.6*	*62-139*			
Surrogate: Toluene-d8	*4.38*		"	*5.00*		*87.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*4.34*		"	*5.00*		*86.8*	*75-125*			

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

HP Labs

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL21701 - EPA 5030										
Matrix Spike (EL21701-MS1)	**Source: 3212010-14**			Prepared & Analyzed: 17-Dec-02						
Benzene	4.48	0.500	ug/l	5.00	0.3	83.6	75-125			
Toluene	13.0	0.500	"	5.00	9.8	64.0	74-125			QM-07
Surrogate: Dibromofluoromethane	*4.25*		"	*5.00*		*85.0*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*3.94*		"	*5.00*		*78.8*	*62-139*			
Surrogate: Toluene-d8	*4.25*		"	*5.00*		*85.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*4.25*		"	*5.00*		*85.0*	*75-125*			
Matrix Spike Dup (EL21701-MSD1)	**Source: 3212010-14**			Prepared & Analyzed: 17-Dec-02						
Benzene	4.49	0.500	ug/l	5.00	0.3	83.8	75-125	0.223	20	
Toluene	13.4	0.500	"	5.00	9.8	72.0	74-125	3.03	20	QM-07
Surrogate: Dibromofluoromethane	*4.34*		"	*5.00*		*86.8*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*4.06*		"	*5.00*		*81.2*	*62-139*			
Surrogate: Toluene-d8	*4.37*		"	*5.00*		*87.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*4.21*		"	*5.00*		*84.2*	*75-125*			

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B - Quality Control
HP Labs

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL21101 - EPA 5030										
Blank (EL21101-BLK1)				Prepared & Analyzed: 11-Dec-02						
Methyl tert-butyl ether	2.68	5	ug/kg							J
Benzene	ND	5	"							
Toluene	ND	5	"							
Ethylbenzene	ND	5	"							
m,p-Xylene	ND	5	"							
o-Xylene	ND	5	"							
Surrogate: Dibromofluoromethane	*21.8*		"	*25.0*		*87.2*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*19.0*		"	*25.0*		*76.0*	*52-149*			
Surrogate: Toluene-d8	*22.4*		"	*25.0*		*89.6*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*21.2*		"	*25.0*		*84.8*	*65-135*			
LCS (EL21101-BS1)				Prepared & Analyzed: 11-Dec-02						
Benzene	21.9	5	ug/kg	25.0		87.6	64-135			
Toluene	25.7	5	"	25.0		103	65-135			
Surrogate: Dibromofluoromethane	*22.1*		"	*25.0*		*88.4*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*20.4*		"	*25.0*		*81.6*	*52-149*			
Surrogate: Toluene-d8	*22.7*		"	*25.0*		*90.8*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*21.5*		"	*25.0*		*86.0*	*65-135*			
Matrix Spike (EL21101-MS1)	**Source: 3212006-17**			Prepared & Analyzed: 11-Dec-02						
Benzene	28.0	5	ug/kg	25.0	12	64.0	65-135			QM-07
Toluene	24.7	5	"	25.0	6.4	73.2	64-135			
Surrogate: Dibromofluoromethane	*21.5*		"	*25.0*		*86.0*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*19.3*		"	*25.0*		*77.2*	*52-149*			
Surrogate: Toluene-d8	*21.8*		"	*25.0*		*87.2*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*19.9*		"	*25.0*		*79.6*	*65-135*			

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

HP Labs

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL21101 - EPA 5030										
Matrix Spike Dup (EL21101-MSD1)	**Source: 3212006-17**			Prepared & Analyzed: 11-Dec-02						
Benzene	26.8	5	ug/kg	25.0	12	59.2	65-135	4.38	30	QM-07
Toluene	24.4	5	"	25.0	6.4	72.0	64-135	1.22	30	
Surrogate: Dibromofluoromethane	*21.8*		"	*25.0*		*87.2*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*20.2*		"	*25.0*		*80.8*	*52-149*			
Surrogate: Toluene-d8	*21.5*		"	*25.0*		*86.0*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*20.4*		"	*25.0*		*81.6*	*65-135*			
Batch EL21601 - EPA 5030										
Blank (EL21601-BLK1)				Prepared & Analyzed: 16-Dec-02						
Methyl tert-butyl ether	3.44	5	ug/kg							J
Benzene	ND	5	"							
Toluene	ND	5	"							
Ethylbenzene	ND	5	"							
m,p-Xylene	ND	5	"							
o-Xylene	ND	5	"							
Surrogate: Dibromofluoromethane	*22.0*		"	*25.0*		*88.0*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*19.4*		"	*25.0*		*77.6*	*52-149*			
Surrogate: Toluene-d8	*22.6*		"	*25.0*		*90.4*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*21.8*		"	*25.0*		*87.2*	*65-135*			
LCS (EL21601-BS1)				Prepared & Analyzed: 16-Dec-02						
Benzene	22.0	5	ug/kg	25.0		88.0	64-135			
Toluene	28.5	5	"	25.0		114	65-135			
Surrogate: Dibromofluoromethane	*23.3*		"	*25.0*		*93.2*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*20.8*		"	*25.0*		*83.2*	*52-149*			
Surrogate: Toluene-d8	*23.6*		"	*25.0*		*94.4*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*23.4*		"	*25.0*		*93.6*	*65-135*			

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Volatile Organic Compounds by EPA Method 8260B - Quality Control

HP Labs

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL21601 - EPA 5030										
Matrix Spike (EL21601-MS1)	**Source: E212020-03**			Prepared & Analyzed: 16-Dec-02						
Benzene	20.5	5	ug/kg	25.0	ND	82.0	65-135			
Toluene	21.1	5	"	25.0	1.9	76.8	64-135			
Surrogate: Dibromofluoromethane	*23.2*		"	*25.0*		*92.8*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*21.4*		"	*25.0*		*85.6*	*52-149*			
Surrogate: Toluene-d8	*22.3*		"	*25.0*		*89.2*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*20.4*		"	*25.0*		*81.6*	*65-135*			
Matrix Spike Dup (EL21601-MSD1)	**Source: E212020-03**			Prepared & Analyzed: 16-Dec-02						
Benzene	21.9	5	ug/kg	25.0	ND	87.6	65-135	6.60	30	
Toluene	22.2	5	"	25.0	1.9	81.2	64-135	5.08	30	
Surrogate: Dibromofluoromethane	*21.1*		"	*25.0*		*84.4*	*65-135*			
Surrogate: 1,2-Dichloroethane-d4	*20.0*		"	*25.0*		*80.0*	*52-149*			
Surrogate: Toluene-d8	*20.0*		"	*25.0*		*80.0*	*65-135*			
Surrogate: 4-Bromofluorobenzene	*18.1*		"	*25.0*		*72.4*	*65-135*			

HP LABS

EnecoTech	Project: ETIC120302-L3	
6160 Fairmount Ave., Suite A	Project Number: 02-01686-001	Reported:
San Diego CA, 92120	Project Manager: Mr. Mike Gibbs	30-Dec-02

Notes and Definitions

D-06	The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
D-12	Results in the Gasoline Range are primarily due to overlap from a heavier fuel hydrocarbon product.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Chain of Custody Record

HP LABS

☒ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/3/02
HPL Project # ETIC120302-L3
Outside Lab:

Client: EnegoTech
Address: 6160 FAIRMOUNT AVE. SUITE A. SAN DIEGO, CA. 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Client Project # 686-001 TASK BG 014
Location: 11427 Woodside AV. SANTEE
Turn around time: ON-SITE

Page: 1 Of 3
Project Manager MIKE G, BB

Global ID: EDF: Yes / No

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX				3212006	Total # of containers
B1-25			0909	12/3/02	S	4x Tube	X		X													01	1
B1-30							X		X									X				02	1
B1-32							X		X													03	1
B1-34							X		X													04	1
B1-36							X		X													05	1
B1-38									X													06	1
B1-7.5																						07	1
B1-8.0																						08	1
B1-9.5																						09	1
B1-10																						10	1
B1-20							X															11	1
B1-40																						12	1
B2-7																						13	1
B2-10																						14	1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: 12/3/02	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

E2774

Chain of Custody Record

HP LABS

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/3/02
HPL Project # ETIL 1203043
Outside Lab:

Client: EnecoTech
Address: 6960 FAIRMOUNT AVE., SUITE A
SAN DIEGO, CA. 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Client Project # 686-001 TASK B694
Location: 11427 WOODSIDE AV. SANTEE
Page: 2 Of 3
Project Manager MIKE GIBBS
Turn around time: ON-SITE

Global ID: EDF: Yes / No

Sample Receipt
Intact: Yes ☐ No
Seal Intact: ☐ Yes ☐ No N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX				3/2006	Total # of containers
B2-20				12/3/02	S	AC Tube																15	1
B2-30							X		X													16	1
B2-32							X		X									X				17	1
B2-34							X		X													18	1
B2-40							X		X													19	1
B3-7							X															20	1
B3-10							X															21	1
B3-20							X		X													22	1
B3-25							X		X													23	1
B3-30							X		X													24	1
B3-32							X		X									X				25	1
B3-34							X		X													26	1
B3-36									X													27	1
B3-40									X													28	1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: 12/3/02 Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS

☑ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/3/02
HPL Project # ETLC 120302-13
Outside Lab:

Client: EnecoTech
Address: 6160 Fairmount Ave, Suite A
San Diego, CA. 92120
Phone: 619-922-6210 Fax: 619-299-0087

Collector:
Client Project # 686-001/Task B6014
Location: 11478 Woodside Ave. Santee
Turn around time: On-site

Page: 3 Of 3
Project Manager: Mike Gibbs

Global ID: EDF: Yes / No

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☑ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX				3/1/2006	Total # of containers
B4-7				12/3/02	S	AC TUBE	X		X														29	1
B4-10				↓	↓	↓	X		X														30	1
B4-20							X		X														31	1
B4-30							X		X														32	1
B4-32							X		X									X	B4				33	1
B4-34							X		X														34	1
B4-36							X		X														35	1
B4-38									X														36	1
B4-40									X														37	1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: 12/3/02	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/4/02
HPL Project # ETL120302-13
Outside Lab:

Client: Enecotech
Address: 6160 Fairmount Av., Suite A
San Diego, CA. 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Client Project # 636-001 Task BG Dig
Location: 11427 Woodside Av., Santee
Turn around time: On-site

Page: 1 Of 3
Project Manager: Mike Gibbs

Global ID: EDF: Yes / No

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX			3/2/2010	Total # of containers
B6-30				12/4/02	S	AC TUBE			X												-01	1
B6-32							X		X									X			02	1
B6-34							X		X												03	1
B6-36									X												04	1
B6-40									X												05	1
B5-7																					06	1
B5-10																					07	1
B5-20							X		X												08	1
B5-28.5							X		X												09	1
B1					W	3 VOAs 1 L	X		X									X			10	4
B3							X		X									X			11	4
B4							X		X									X			12	4
B6-33					S	4 oz J	X		X												13	1
B2					W	3 VOAs 1 L	X		X									X			14	4

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
	12/4/02		HP LABS	12/4/02	
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/4/02
HPL Project # ETIC 120302-L3
Outside Lab:

Client: Enecotech
Address: 6160 Fairmont Av., suite A
San Diego, CA. 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Client Project # 686-001 TASK BG 014
Location: 11427 Woodside Av., Santee
Turn around time: on-site

Page: 2 Of 3
Project Manager: Mike Gibbs

Global ID: EDF: Yes / No

Sample Receipt
Intact: X Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX			3/2/2010	Total # of containers
B7-25				12/4/02	S	4C TUBE			X												15	1
B7-30									X VOA												16	1
B7-32							X TEH		X BTEX												17	1
B7-36							X		X												18	1
B7-40									X												19	1
B8-25							X TEH		X												20	1
B8-32							X		X									X BTEX			21	1
B8-34							X		X												22	1
B8-36									X												23	1
B8-38									X												24	1
B7					W	3 VOAS	X		X									X BTEX			25	~~4~~ 5
B6							X		X									X BTEX			26	5
B9-25'					S	4C TUBE	X TEH														27	1
B9-31									X												28	1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
	12/4/02		HP LABS	12/4/02	
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

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Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/4/02
HPL Project # ETIC120302-L3
Outside Lab:

Client: Eneco Tech
Address: 6160 FAIRMOUNT AV., SUITE A
SAN DIEGO, CA. 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Client Project # 86-001 TASK B6 014
Location: 11427 WOODSIDE AV. SANTEE
Turn around time: ON-SITE

Page: 3 Of 3
Project Manager MIKE GIBBS

Global ID: EDF: Yes / No

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX			321010	Total # of containers
B9-33'				12/4/02	S	ACTUBE	X		X									X			29	1
B9-35							X		X												30	1
B9-40																					31	1
B8					W	VOA-S	X		X									X			32	5
B9							X		X									X			33	5

Relinquished by: (Signature) (company) 12/4/02
Relinquished by: (Signature) (company)
Relinquished by: (Signature) (company)

Received by: (Signature) (company) HPLABS
Received by: (Signature) (company)
Received by: (Signature) (company)

Date: 12/4/02 Time:
Date: Time:
Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/5/02
HPL Project # ETL 120302-13
Outside Lab:

Client: Enecotech
Address: 6160 Fairmont Ave. suite A
San Diego, CA. 92120
Phone: _____ Fax: _____

Collector: _____ Page: 1 Of 2
Client Project # 686-001 TASK BG 014 Project Manager Mike Gibbs
Location: 11427 Woodside Av., Santee
Turn around time: on-site

Global ID: _____ EDF: Yes / No

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX				3212014	Total # of containers
B10-7'				12/5/02	S	AC TUBE																a	1
B10-10																						02	1
B10-15																						03	1
B10-20																						04	1
B10-27																						05	1
B10-29																						06	1
B10-30									X													07	1
B10-32									X													08	1
B10-34									X													09	1
B10-40									X													10	1
B10					W	VOAS	X		X								X					11	5
B11-27					Soil	AC TUBE																12	1
B11-31									X													13	1
B11-36				↓			X		X								X					14	1

E2120

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company) HPLABS
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)

Date	Time
12/5/02	

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ *Disposal @ $2.00 each* ☐ *Return to client* ☐ *Pickup*

Chain of Custody Record

HP LABS

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/5/02
HPL Project # ETIC1203024-3
Outside Lab:

Client: Enecotech
Address: 6160 Fairmount Ave, Suite A
San Diego, CA. 92120
Phone: Fax:

Collector:
Client Project # 686-001 TACL BG 014
Location: 11427 Woodside Ave., Santee
Turn around time: On-site

Page: 2 Of 2
Project Manager Mike Gibbs

Global ID: EDF: Yes / No

Sample Receipt
Intact: Yes ☐ No
Seal Intact: ☐ Yes ☐ No N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	8260 MTBE/BTEX				8260 12014	Total # of containers
B11-40				12/5/02	S	AC TUBE	X		X													15	1
B11-45					↓	↓			X													16	1
B11					W	VOAS	X		X									X				17	5
B12-27					S	AC TUBE																18	1
B12-32							X		X													19	1
B12-34							X		X													20	1
B12-36							X		X													21	1
B12-38'									X													22	1
B12-40																						23	1
B12-42																						24	1
B12-44					↓	↓																25	1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)

Date: 12/5/02 Time:
Date: Time:
Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS

☒ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/6/02
HPL Project # ETIC 120302-L3
Outside Lab:

Client: EnecoTech
Address: 6160 FAIRMOUNT AV. Suite A
San Diego, CA 92120
Phone: 619-727-6210 Fax: 619-299-0087

Collector:
Client Project # 686-001 TASK GL 014
Location: 11427 Woodside Av. Santee
Turn around time: On-site

Page: 1 Of 3
Project Manager: Mike G. Bibbs

Global ID: EDF: Yes / No

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
☑ N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases					321205	Total # of containers
B13-25				12/5/02	S	AC TUBE			X													01	1
B13-30							X		X													02	1
B13-35							X		X													03	1
B13-40									X													04	1
B13-45																						05	1
B12				12/6/02	W	VOAS	X		X													06	5
B14-7					SOIL	AC TUBE																07	1
B14-10																						08	1
B14-20																						09	1
B14-25									X													10	1
B14-30							X		X													11	1
B14-35									X													12	1
B14-37																						13	1
B13					WATER	VOAS	X		X													14	5

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: 12/6/02	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ *Disposal @ $2.00 each* ☐ *Return to client* ☐ *Pickup*

HPL LABS
S. V[redacted]ood [redacted]scon[redacted] CA 9[redacted] • ph[redacted]735.3[redacted] fax [redacted]35.2[redacted]
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

HPL Project # [redacted] 1C[redacted]-03[redacted]-3[redacted]

Outside Lab: _____

Client: EnccoTech

Address: 6160 FAIRMOUNT AV., SUITE A
SAN DIEGO, CA 92120

Phone: 619-722-6210 Fax: 619-299-0087

Collector: _____ Page: 1 Of 3

Client Project # 686-001 TASK BG 014 Project Manager MIKE G. HPLABS

Location: 11427 WOODSIDE AV. SANTEE

Turn around time: ON-SITE

Global ID: _____ EDF: Yes / No

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases						3212015	Total # of containers
B13-25				12/5/02	S	AC TUBE			X														01	1
B13-30							X		X														02	1
B13-35							X		X														03	1
B13-40									X														04	1
B13-45																							05	1
B12				12/6/02	W	VOAS	X		X														06	5
B14-7					SOIL	AC TUBE																	07	1
B14-10																							08	1
B14-20																							09	1
B14-25									X														10	1
B14-30							X		X														11	1
B14-35									X														12	1
B14-37																							13	1
B13					WATER	VOAS	X		X														14	5

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: 12/6/02 Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back. Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/6/02
HPL Project # ETIL120302-L3
Outside Lab:

Client: EnecoTech
Address: 6160 Fairmount Ave., Suite A
San Diego, CA 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Page: 3 Of 3
Client Project # 686-001 Task B6 014 Project Manager Mike Gibbs
Location: 11427 Woodside Av., Santee
Turn around time: On-site

Global ID: EDF: Yes / No

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases					3212015	Total # of containers
B16-45				12/6/02	S	AC TUBE																29	1
B16					W	VOAs	X		X													30	5
B3-FP					prod.		X															31	1
B4-FP					↓		X															32	1
B17-7					GOIL	AC TUBE																33	1
B17-10																						34	1
B17-15																						35	1
B17-20																						36	1
B17-25																						37	1
B17-30								X														38	1
B17-32							X	X														39	1
B17-34							X	X														40	1
B17-36								X														41	1
B17-40				↓	↓	↓																42	1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company) HPLABS
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company) Date: 12/6/02 Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company) Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS
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432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/6/02
HPL Project # ETK120302-L3
Outside Lab:

Client: Enecotech
Address: 6160 FAIRMOUNT AV., SUITE A. SAN DIEGO, CA. 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Client Project # 686-001 TASK 06 014
Location: 11427 WOODSIDE AV., SANTEE
Turn around time: ON SITE

Page: 2 Of 3
Project Manager MIKE GIBBS

Global ID: EDF: Yes / No

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases					3212015	Total # of containers
B15-33				12/6/02	S	AC TUBE			X													15	1
B15-34									X													16	1
B15-35									X													17	1
B15-36									X													18	1
B15-38																						19	1
B15					W	VOAS	X		X													20	5
B15-32					S	4OZ J			X													21	1
B16-29'						AC TUBE			X													22	1
B16-31									X													23	1
B16-32																						24	1
B16-33									X													25	1
B16-35																						26	1
B16-40																						27	1
B16-44																						28	1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: 12/6/02	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Chain of Custody Record

HP LABS

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/6/02
HPL Project # ETIL120302-L3
Outside Lab:

Client: EnecoTech
Address: 6160 FAIRMOUNT AVE., SUITE A SAN DIEGO, CA. 92120
Phone: 619-722-6210 Fax: 619-299-0087

Collector:
Page: 3 Of 3
Client Project # 686-001 TASK 136 014 Project Manager MIKE GIBBS
Location: 11427 Woodside Av., SANTEE
Turn around time: On-site

Global ID: EDF: Yes / No

Sample Receipt
Intact: ☑ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☑ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases						3212015	Total # of containers
B16-45				12/6/02	S	ACTUBE																	29	1
B16					W	VOAS	X		X														30	5
B3-FP					prod.		X																31	1
B4-FP					↓		X																32	1
B17-7					SOIL	AC TUBE																	33	1
B17-10																							34	1
B17-15																							35	1
B17-20																							36	1
B17-25																							37	1
B17-30								X															38	1
B17-32							X	X															39	1
B17-34							X	X															40	1
B17-36								X															41	1
B17-40				↓	↓	↓																	42	1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: 12/6/02	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Del Mar Analytical
2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4867 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689

CHAIN OF CUSTODY FORM

Page _____ of _____

Client Name/Address: EnecoTech
6160 Fairmount Ave Suite A
San Diego, CA

Project/PO Number: 02-01686-001

Project Manager: Mike Gibbs

Phone Number: (619) 299-0033

Sampler: Edward Kontos

Fax Number: (619) 299-0078

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required: 8015 GAS + Diesel	8021 BTEX + MTBE	Hold							Special Instructions
																Confirm BTEX and MTBE by 8260
B17	W	VOA	5	12/6/02	1500	HCl	X	X								3212016-01
B14	↓	↓	5	12/6/02	1700	HCl	X	X								-02
B13-FP	Product	VOA	1	12/6/02	1510	ICE	X									03
B18-5'	S	Sleeve	1	12/6/02	1526	ICE			X							04
10'					1530				X							05
15'					1534				X							06
20'					1540			X	X							07
25'					1548			X								08
32'					1559		X	X								09
34'					1604			X								10
36'					1619			X								11
40'	↓	↓	↓	↓	1625	↓		X								12

Relinquished By: _____ Date/Time: 12-9-02 940 Received by: Jamie Phelps Date/Time: 12-9-02 940

Relinquished By: _____ Date/Time: _____ Received by: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____ Received in Lab by: _____ Date/Time: _____

Turnaround Time: (Check)
same day _____ 72 hours _____
24 hours _____ 5 days _____
48 hours _____ normal _____

Sample Integrity: (Check)
intact _____ on ice _____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Del Mar Analytical
2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689

CHAIN OF CUSTODY FORM

Client Name/Address: EnecoTech
6160 Fairmount Ave Suite A
San Diego, CA

Project/PO Number: 02-01686-001

Project Manager: Mike Gibbs

Phone Number: 619 299-0033

Sampler: Ed Kontos

Fax Number: 619 299-0087

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required: 8015 Gas+Diesel	3270	Special Instructions
MW2-FP	Product	VOA	1	4/24/02	1300	ICE	X	-01	Do not puncture septum. please return sample when finished.
MW3-FP	↓	↓	↓	↓	1800	↓	X	02	

Relinquished By: [signature] Date/Time: 12/10/02 0945
Received by: Janie Phelps Date/Time: 12/10/02 945

Relinquished By: Date/Time:
Received by: Date/Time:

Relinquished By: Date/Time:
Received in Lab by: Date/Time:

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact ____ on ice ____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Del Mar Analytical
2852 Alton Ave., Irvine, CA 92606 (949) 261-1022 FAX (949) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
7277 Hayvenhurst, Suite B-12, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
9830 South 51st St., Suite B-120, Phoenix, AZ 85044 (480) 785-0043 FAX (480) 785-0851
9484 Chesapeake Dr., Suite 805, San Diego, CA 92123 (858) 505-9596 FAX (858) 505-9689

CHAIN OF CUSTODY FORM

Client Name/Address: EnecoTech
6160 Fairmount Ave Suite A
San Diego, CA

Project/PO Number: 02-01686-001

Project Manager: Mike Gibbs

Phone Number: 619-299-0033

Sampler: Ed Kontos

Fax Number: 619-299-0087

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required: 8015 GAS + Diesel	8021 BTEX + MTBE						8260	Special Instructions
B18	W	VOAs	5	12/9/02	0900	HCL	X	X						03	Confirm BTEX + MTBE by 8260
~~B17-FP~~	~~Product~~	~~VOA~~	~~1~~	~~12/9/02~~	~~1000~~	~~ICE~~	~~X~~			~~12/9/02~~					

Relinquished By:	Date/Time:	Received by:	Date/Time:	Turnaround Time: (Check)	
	12/10/02 0800	Tania Phelps	12/10 945	same day ____	72 hours ____
Relinquished By:	Date/Time:	Received by:	Date/Time:	24 hours ____	5 days ____
				48 hours ____	normal ____
Relinquished By:	Date/Time:	Received in Lab by:	Date/Time:	Sample Integrity: (Check)	
				intact ____	on ice ____

Note: By relinquishing samples to Del Mar Analytical, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

Chain of Custody Record

HP LABS

☒ 148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
☐ 432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
☐ 2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/4/02
HPL Project #: ETIC 120502-L3
Outside Lab:

Client: EnecoTech
Address: 6160 Fairmont Av. Suite A
San Diego, CA. 92120
Phone: 619-722-6210 Fax: 619-299-0087
Global ID:
EDF: Yes / No

Collector:
Client Project #: 686-001 TAL BG OH
Location: 11427 Woodside Av., Santee
Turn around time: on-site

Page: 2 of 3
Project Manager: Mike Gibbs

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☐ No
(N/A) Received on Site)

| Sample Name | Field Point Name | Depth | Time | Date | Sample Type | Container Type | TPH gasoline / diesel | TPH extended | 8021 for BTEX/MTBE | 8021 for Halogenated compounds | 418.1 TRPH | 8260B: BTEX / Oxygenates | Oxygenates | VOC's | VOC's and Oxygenates | Methane | Fixed Gases | 8260 MTBE/BTEX | | |

Chain of Custody Record

HP LABS

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3208 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/6/02
HRL Project #: ETIC 121207-43
Outside Lab:

Client: EnecoTech
Address: 6160 FAIRMOUNT AV. SUITE A
SAN DIEGO, CA 92120
Phone: 619-727-6210 Fax: 619-294-0087
Global ID:
EDF: Yes / No

Collector:
Page: 1 of 3
Client Project #: 696-001 TASK 04 014
Project Manager: MIKE GIBBS
Location: 11427 WOODSIDE AV. SANTEE
Turn around time: ON-SITE

Sample Receipt
Intact: Yes / No
Seal Intact: Yes / No / N/A
Cold: Yes / No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	8260B: BTEX / Oxygenates MTBE	8260B: Oxygenates	8260B: VOC's	8260B: VOC's and Oxygenates	Methane	Fixed Gases	5102/5327	Total # of containers
B13-25				12/5/02	S	AC TUBE			X									01	1
B13-30							X		X									02	1
B13-35							X		X									03	1
B13-40									X									04	1
B13-45																		05	1
B12				12/5/02	W	VOAS	X		X									06	5
B14-7					SOIL	AC TUBE												07	1
B14-10																		08	1
B14-20																		09	1
B14-25																		10	1
B14-30							X		X									11	1
B14-35							X		X									12	1
B14-37									X									13	1
B13					WATER	VOAS	X		X									14	5

12/16

Relinquished by: (Signature) (company)
Received by: (Signature) (company)
Date: 12/6/02 Time:
Relinquished by: (Signature) (company)
Received by: (Signature) (company)
Date: Time:
Relinquished by: (Signature) (company)
Received by: (Signature) (company)
Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of conditions on back.

Sample disposal instruction: ☐ Dispose @ $2.00 each ☐ Return to client ☐ Pickup

12/16/2002 13:19 7607358469 HP LABS PAGE 10 ☑ 010

Chain of Custody Record

HP LABS

148 S. Vinewood St., Escondido, CA 92029 • ph 760.735.3206 • fax 760.735.2469
432 N. Cedros Ave., Solana Beach, CA 92075 • ph 858.793.0401 • fax 858.793.0404
2373 208th Street Unit F-1, Torrance, CA 90501 • ph 310.782.2929 • fax 310.782.2798

Date: 12/6/02
HPL Project #: ETIC 121002-13
Outside Lab:

Client: EnerTech
Address: 6160 Fairmount Ave, Suite A
San Diego CA 92120
Phone: 619-722-6210 Fax: 619-299-0087
Global ID:

Collector:
Client Project # 676-001 Task B4 914 Project Manager: Mike Gibbs
Location: 11427 Woodside Av., Santee
Turn around time: On-site
Page: 3 of 3

EDF: Yes / No

Sample Receipt
Intact: Yes / No
Seal Intact: Yes / No / N/A
Cold: Yes / No
N/A (Received on Site)

Sample Name	Field Point Name	Depth	Time	Date	Sample Type	Container Type	TPH gasoline / diesel	TPH extended	8021 for BTEX/MTBE	8021 for Halogenated compounds	418.1 TRPH	BTEX / Oxygenates 8260B	Oxygenates	VOC's	VOC's and Oxygenates	Methane	Fixed Gases	12/15/2002	Total # of containers
B16-45																		27	
B16				12/6/02	S	ACTube												29	1
B3-FP					W	VOAs	X		X									30	5
B4-FP					Plast.		X											31	
B17-7							X											32	1
B17-10					Soil	Ac Tube	X											33	1
B17-15							X											34	1
B17-20							X											35	1
B17-25							X											36	1
B17-30							X											37	1
B17-32							X	X										38	1
B17-34							X	X										39	1
B17-36							X	X										40	1
B17-40							X	X										41	1
																		42	1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instructions: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

HP LABS PAGE 12

7607352469

APPENDIX E

WASTE MANIFEST

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 4139	2. Page 1 of 1	

3. Generator's Name and Mailing Address
Wigington/El Capitan Oil
11427 Woodside Ave., Santee, CA 92071-4725
4. Generator's Phone (619) 299-0033 Contact: Mike Gibbs

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
EFR Environmental Services, Inc.	C.A.R.0.0.0.0.1.1.2.0.5	619-956-2770
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
Dome Rock Industries, Inc. 3125 West Dome Rock Road Quartzsite, AZ 85346	A.Z.R.0.0.0.0.3.5.9.1.5	928-927-7688

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous Waste Solid	002	D.M	0.07.00	P
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above
11a. Acceptance#D1055 (Soil Cuttings) Mail C/O Enecotech Southwest-6160 Fairmount Ave., Ste. A San Diego, CA 92120	

15. Special Handling Instructions and Additional Information

Always wear appropriate protective clothing and use safe handling methods.
24 Hour Emergency Number 1-800-244-1202/619-956-2770 *EFR*

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Octavio Quintero agent	Octavio Quintero	12	16	07

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Octavio Quintero	Octavio Quintero	12	16	07

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

APPENDIX F

CHROMATOGRAPH DATA

Table F1	Tank and Product piping Removal Petroleum Hydrocarbon Chromatograph Results
Table F-2	Additional Site Assessment TPH and Chromatograph
Table F-3	Comprehensive Site Assessment TPH and Chromatograph

Del Mar Standards
Product Piping Removal (10/97)
Tank Removal (4/98)
Monitoring Well Groundwater and MW8 Soil

Latest Assessment
HP Lab Standards
Soil Samples
Groundwater Samples
Product Samples

Table F-1: Tank and Piping Removal Petroleum Hydrocarbon Chromatograph Summary
(Soil)

Sample ID	Date Analyzed	Product	EPA 8015 (mg/kg)		EPA 418.1	Analytes Present per Chromatographs			Est. % Gasoline	Estimated Confidence
			TPHg	TPHd	TRPH	Gasoline	Diesel	Other		
P-1	10/10/1997	D	43	9,799			X		<1%	High
P-2	10/10/1997	D	175	21,218			X		<1%	High
P-3	10/10/1997	D	<10	<10						
P-4	10/10/1997	D	30	9,584			X		<1%	High
P-5	10/10/1997	G	65	3,025		X	X		2%	High
P-6	10/10/1997	G&D	136	6,624		X	X		2%	High
P-7	10/10/1997	D	467	13,372		X	X		4%	High
P-8	10/10/1997	G&D	2,279	10,632		X	X		18%	High
P-9	10/10/1997	G&D	3,043	5,759		X	X		35%	High
P-10	10/10/1997	D	224	115,444			X		<1%	High
T1-1-15.5'	4/29/1998	G	<10	<10					100%	
T1-2-15'	4/29/1998	G	400	2,000		X*	X**	X***	50%	
T2-1-14'	4/29/1998	D	<10	11			X**	X***	50%	
T2-2-16'	4/29/1998	D	<10	<10						
T3-6.4'	4/29/1998	W			4,300	NC	NC			
T3-9.5'	4/29/1998	W	220	1,200	1,900	X*	X**	X***	50%	
T4-10'	4/29/1998	S,G	820	<10		X*		X***	50%	
T5-E-6.3'	4/29/1998	K,S,W			260	NC	NC			
T5-W-6'	4/29/1998	K,S,W			5,900	NC	NC			
T6-E-16'	4/29/1998	D	<10	1,100			X		100%	
T6-W-16.5'	4/29/1998	D	<10	1,800			X		100%	
T7-E-16'	4/29/1998	D	<10	800			X		100%	
T7-W-16'	4/29/1998	D	<10	23,000			X		100%	
T8-E-16'	4/29/1998	D	<10	25			X		100%	
T8-W-16'	4/29/1998	D	<10	1,900			X		100%	
T9-E-15.5'	4/29/1998	D	<10	30			X		100%	
T9-W-17'	4/29/1998	D	<10	4,200			X		100%	
P1-4.0'	4/29/1998	S,G?	<10	370			X**	X***	50%	

Notes:

Product = Product dispensed or Held at time of removal D=Diesel G=Gasoline W=Waste Oil S=Solvent K=Kerosene

NC = No Chromatograph

* = Gasoline range organics (C_8-C_{12}) not identified as gasoline.

** = Diesel range organics (C_{13}-C_{24}) not identified as diesel.

*** = Sample pattern does not match any available standards.

Table F-2: Additional Site Assessment TPH and Chromatograph Summary

Sample ID	Date Sampled	Analytes			% Confidence
		Gasoline	Diesel	Other	
Groundwater					
MW1	4/26/2002	#	X	X*	65%
MW2	4/26/2002	#	X		90%
MW3	4/26/2002	#	X		90%
MW4	4/26/2002	#	X		85%
MW5	4/26/2002	#	X	X*	65%
MW6	4/26/2002	#	X	X*	65%
MW7	4/26/2002	#	X		90%
MW8	4/26/2002	#	X	X*	70%
Soil					
MW8-33.0	4/19/2002	#	X**		80%
MW8-34.5	4/19/2002	#	X**		80%
MW8-35.5	4/19/2002	#	X**		80%
MW8-37.0	4/19/2002	#	X**		80%
MW8-38.5	4/19/2002	#	X**		80%

Notes:

= Gasoline components present however doesn't match fresh gasoline standard.

X = Sample pattern appears to match diesel fuel standard.

X* = Sample chromatogram appears to have both low concentrations of diesel fuel and a substance lighter than diesel.

X** = Sample was only analyzed for gasoline. Review of the chromatograms indicate hydrocarbons present are the lighter components of diesel Fuel.

Recycled Paper

Enecotech
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITY

Table F-3: Comprehensive Site Assessment TPH and Chromatograph

Sample ID	Matrix	Date Analyzed	Analytes				Suspected Sources(s)
			Gasoline	Weathered Gasoline	Diesel #1	Diesel #2	
Groundwater							
B1	WATER	12/5/2002	XX			X	
B3	WATER	12/5/2002		XX	XX	X	
B4	WATER	12/5/2002			XX	X	
B6	WATER	12/5/2002	X				
B7	WATER	12/5/2002		X			
B8	WATER	12/5/2002	X				
B9	WATER	12/5/2002		XX	XX	X	
B10	WATER	12/5/2002		X			
B11	WATER	12/5/2002		X			
B12	WATER	12/6/2002	X				
B13	WATER	12/6/2002		X	XX	X	
B14	WATER	12/9/2002		X	XX		
B17	WATER	12/9/2002		X	XX	X	
Soil							
B1-30'	SOIL	12/3/2002	XX		X		
B1-32'	SOIL	12/3/2002	XX			X	
B3-30'	SOIL	12/3/2002		X	XX	X	
B3-32'	SOIL	12/3/2002		XX	XX	X	
B4-30'	SOIL	12/4/2002		X		XX	
B4-32'	SOIL	12/4/2002		XX	XX	X	
B4-34'	SOIL	12/3/2002			XX	X	
B4-36'	SOIL	12/3/2002			X		
B6-32'	SOIL	12/4/2002	XX			X	
B6-33'	SOIL	12/4/2002		XX		X	
B8-32'	SOIL	12/4/2002	XX			X	
B9-31'	SOIL	12/6/2002		X	XX	X	
B9-33'	SOIL	12/4/2002		X	XX	X	
B12-34'	SOIL	12/5/2002		XX	XX	X	
B13-30'	SOIL	12/6/2002		X	XX	X	
B14-25'	SOIL	12/17/2002		X	XX	X	
B14-30'	SOIL	12/6/2002		X	XX	X	
B17-25'	SOIL	12/17/2002		X		XX	
B17-32'	SOIL	12/9/2002		X	XX	X	
B18-32'	SOIL	12/9/2002			XX	X	
Product							
MW2-FP	PRODUCT	12/11/2002		X	XX	X	
MW3-FP	PRODUCT	12/11/2002		X	XX	X	
B3-FP	PRODUCT	12/9/2002		X	XX	X	
B4-FP	PRODUCT	12/9/2002		X	XX	X	
B13-FP	PRODUCT	12/9/2002		X	XX	X	

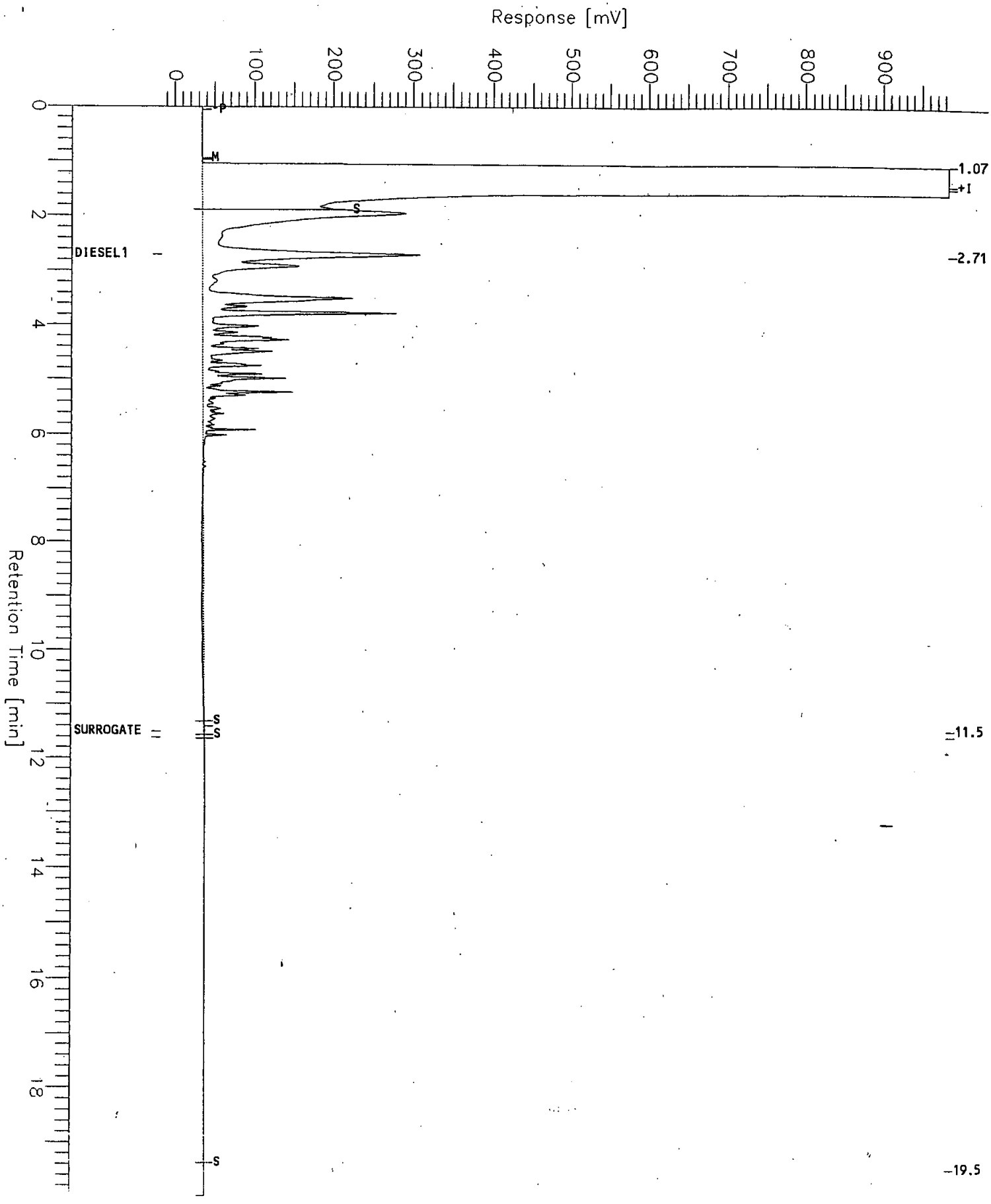
Notes:
X - Minor Constituent
XX - Major Constituent

Del Mar Standards

M8015 Diesel Chromatogram

Sample Name : GASOLINE REG LEAD, 2000 P[redacted]
FileName : H:\DATA\GC2\G08A028.RAW
Method : SHRTDSL.ins
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 1.0 Plot Offset: -16 mV

Sample #: GA-002-40[redacted]
Date : 7/9/99 07:38 AM
Time of Injection: 7/8/99 09:35 PM
Low Point : -15.83 mV High Point : 984.17 mV
Plot Scale: 1000.0 mV



M8015 Diesel Chromatogram

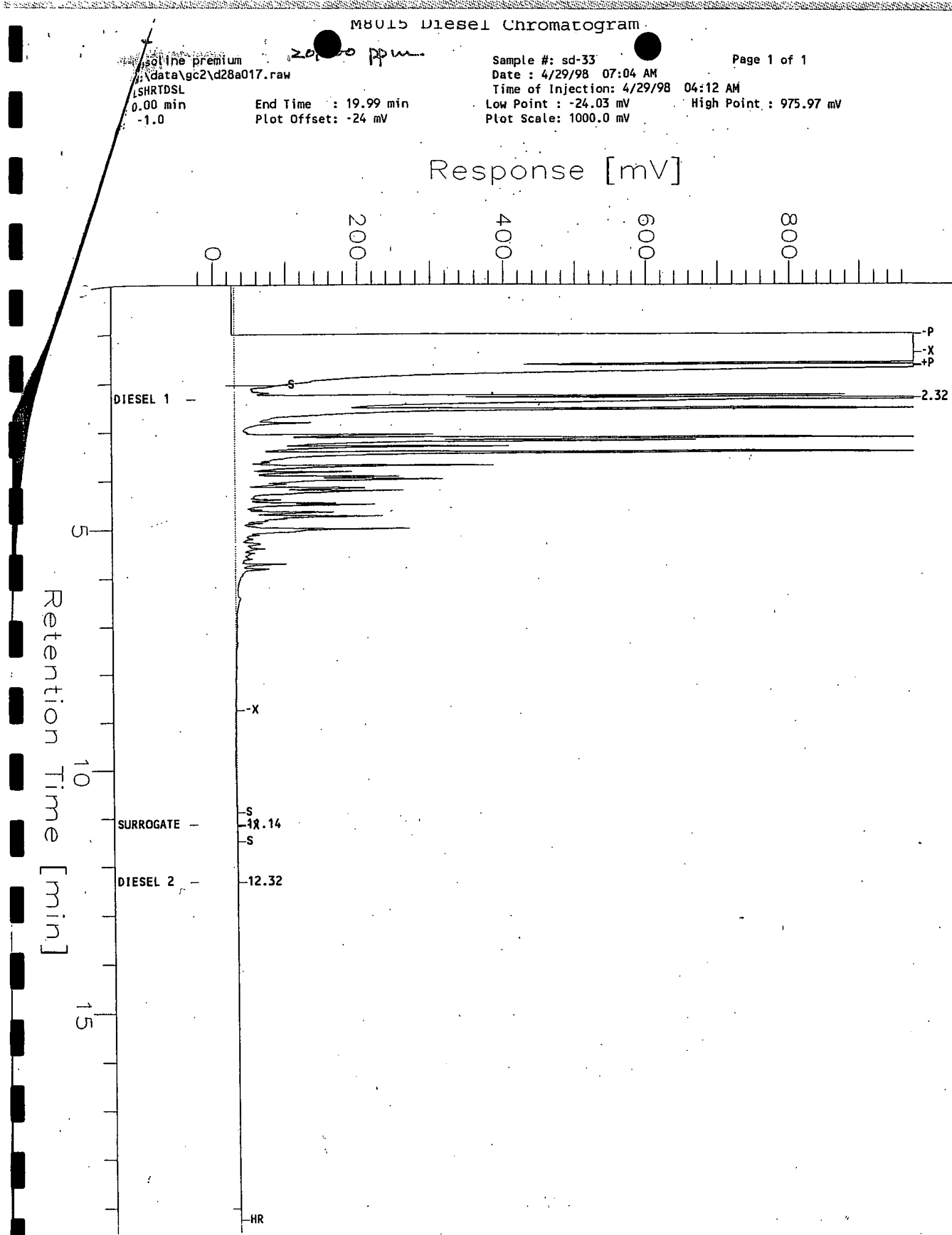
20,000 ppm

soline premium
:\data\gc2\d28a017.raw
LSHRTDSL
0.00 min
-1.0

End Time : 19.99 min
Plot Offset: -24 mV

Sample #: sd-33
Date : 4/29/98 07:04 AM
Time of Injection: 4/29/98 04:12 AM
Low Point : -24.03 mV
Plot Scale: 1000.0 mV

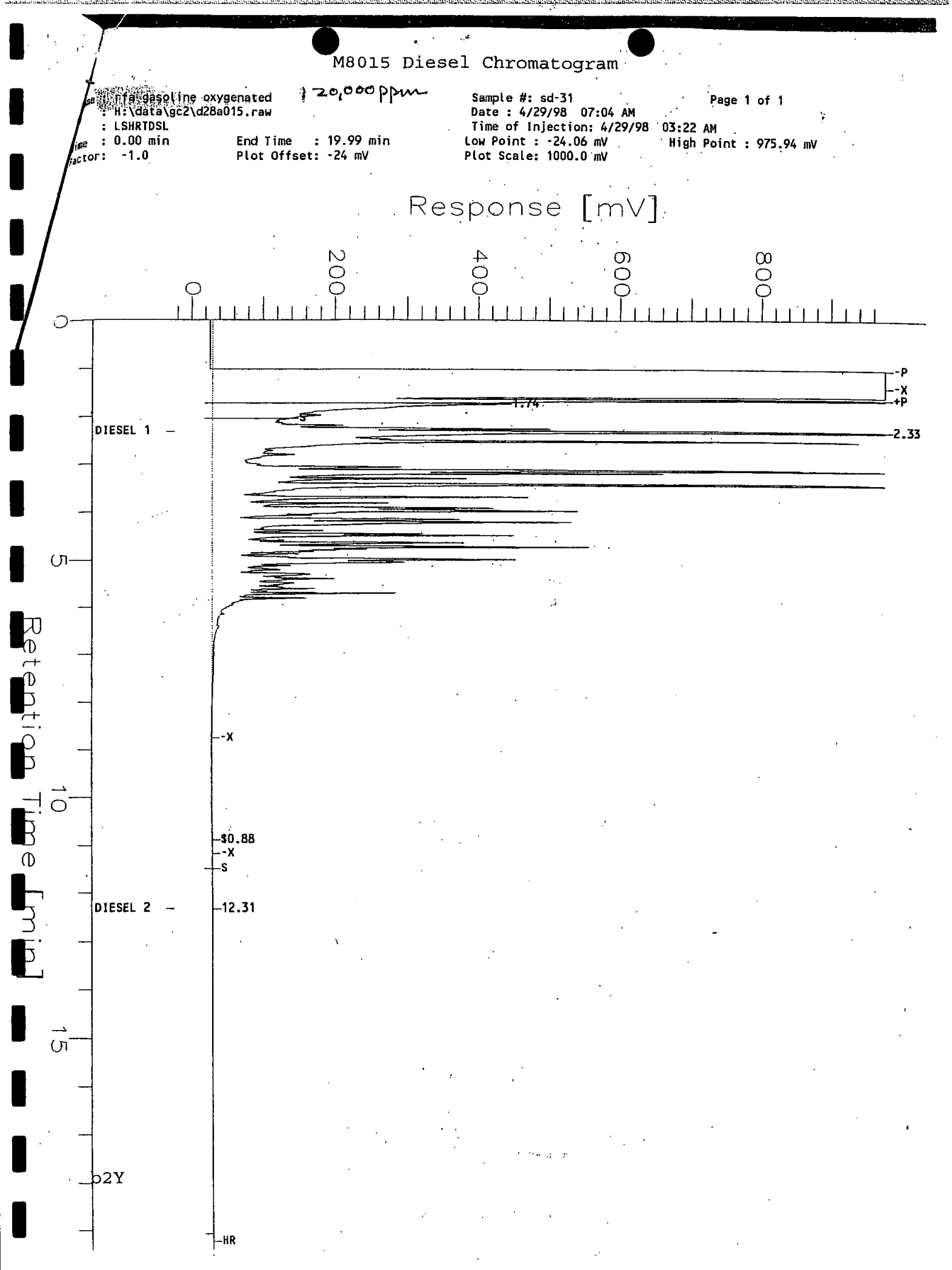
High Point : 975.97 mV



M8015 Diesel Chromatogram

[redacted] rfa gasoline oxygenated 120,000 ppm
: H:\data\gc2\d28a015.raw
: LSHRTDSL
ime : 0.00 min End Time : 19.99 min
actor: -1.0 Plot Offset: -24 mV

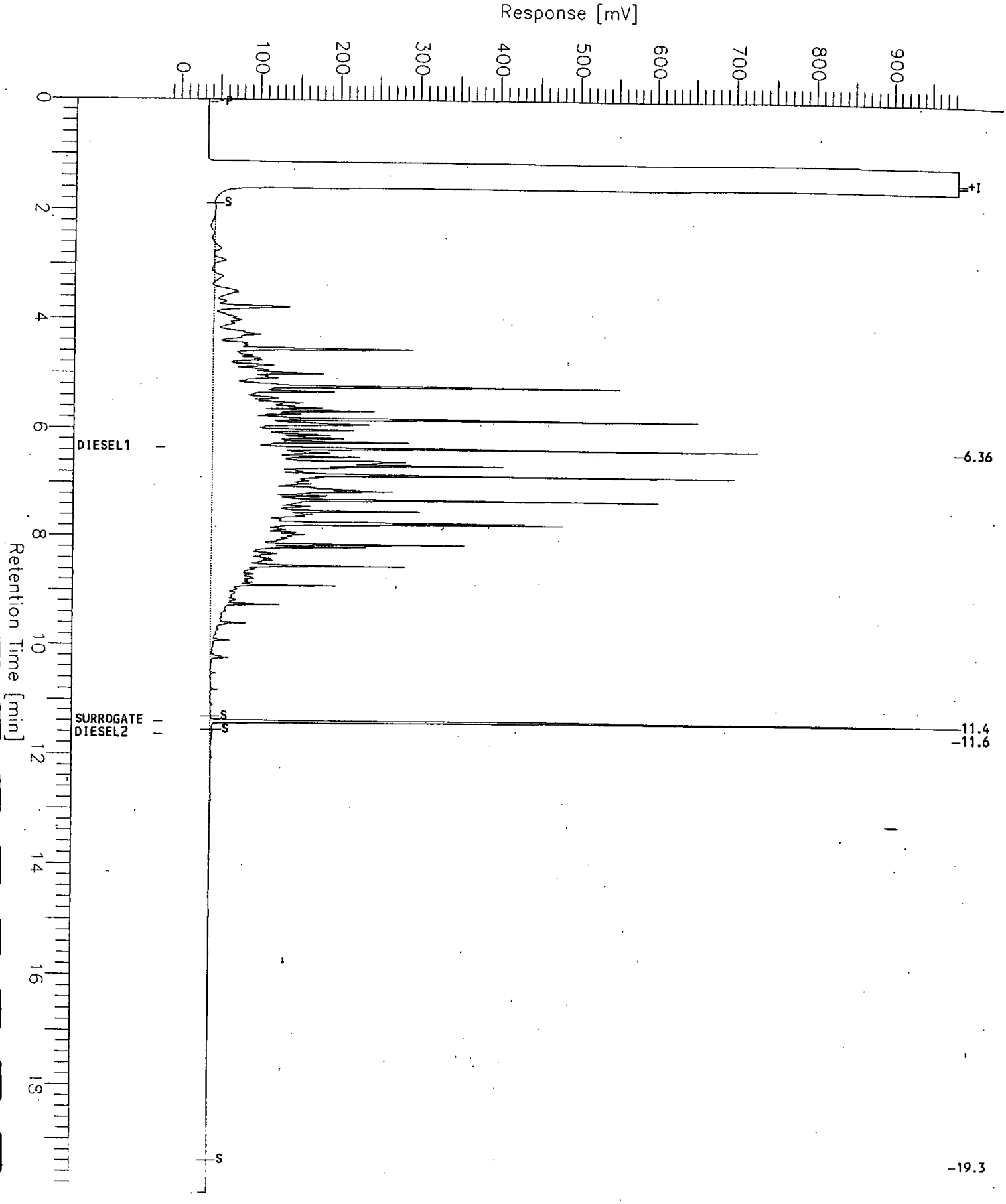
Sample #: sd-31
Date : 4/29/98 07:04 AM
Time of Injection: 4/29/98 03:22 AM
Low Point : -24.06 mV High Point : 975.94 mV



M8015 Diesel Chromatogram

Sample Name : DIESEL CV, 2000 PPM
FileName : H:\DATA\GC2\G08A009.RAW
Method : SHRTDSL.ins
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 1.0 Plot Offset: -16 mV

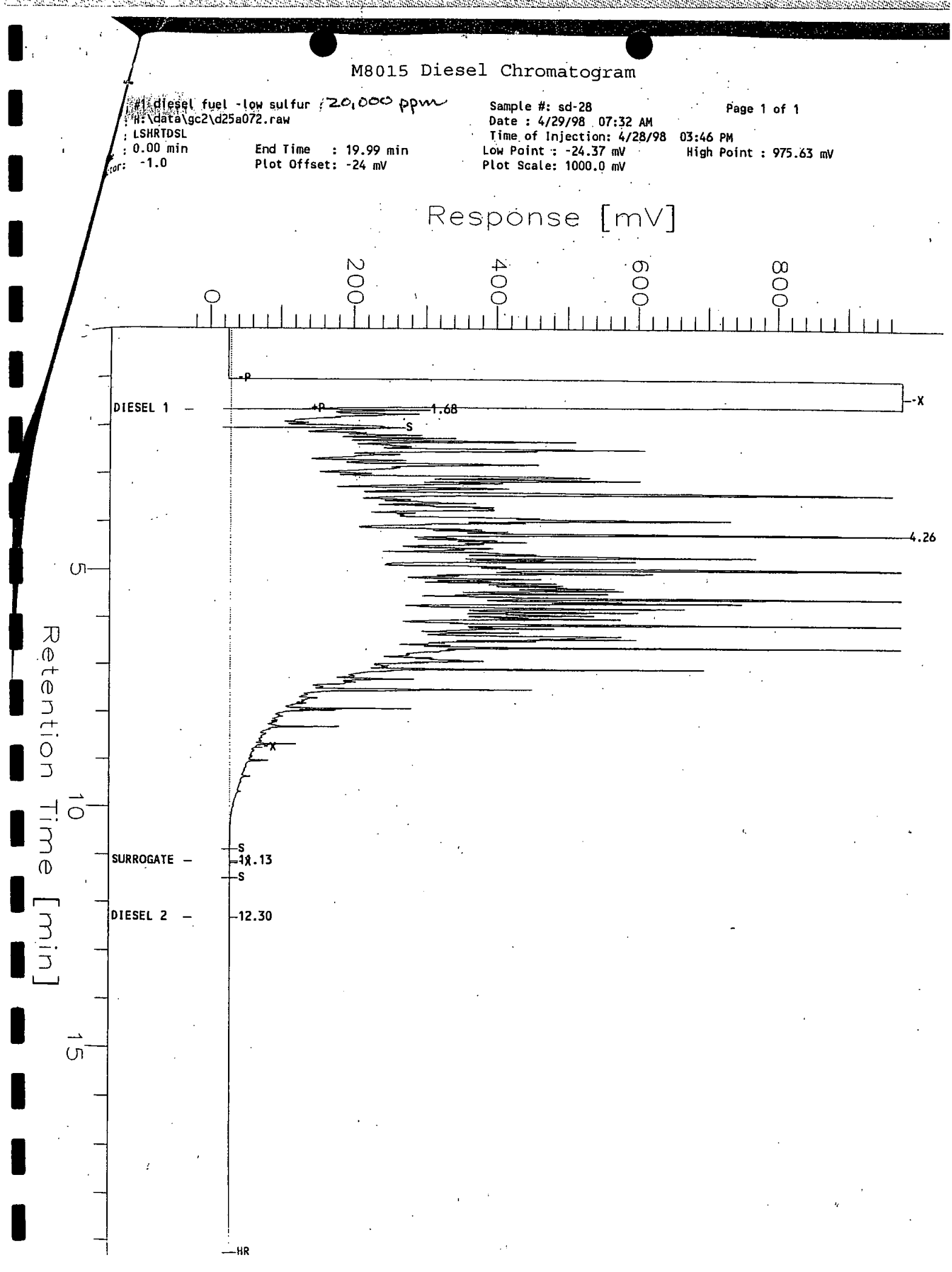
Sample #: IE27DECV
Date : 7/9/99 07:02 AM
Time of Injection: 7/8/99 01:22 PM
Low Point : -16.15 mV High Point : 983.85 mV
Plot Scale: 1000.0 mV



M8015 Diesel Chromatogram

#1 diesel fuel -low sulfur (20,000 ppm)
H:\data\gc2\d25a072.raw
LSHRTDSL
0.00 min End Time : 19.99 min
tor: -1.0 Plot Offset: -24 mV

Sample #: sd-28 Page 1 of 1
Date : 4/29/98 07:32 AM
Time of Injection: 4/28/98 03:46 PM
Low Point : -24.37 mV High Point : 975.63 mV
Plot Scale: 1000.0 mV

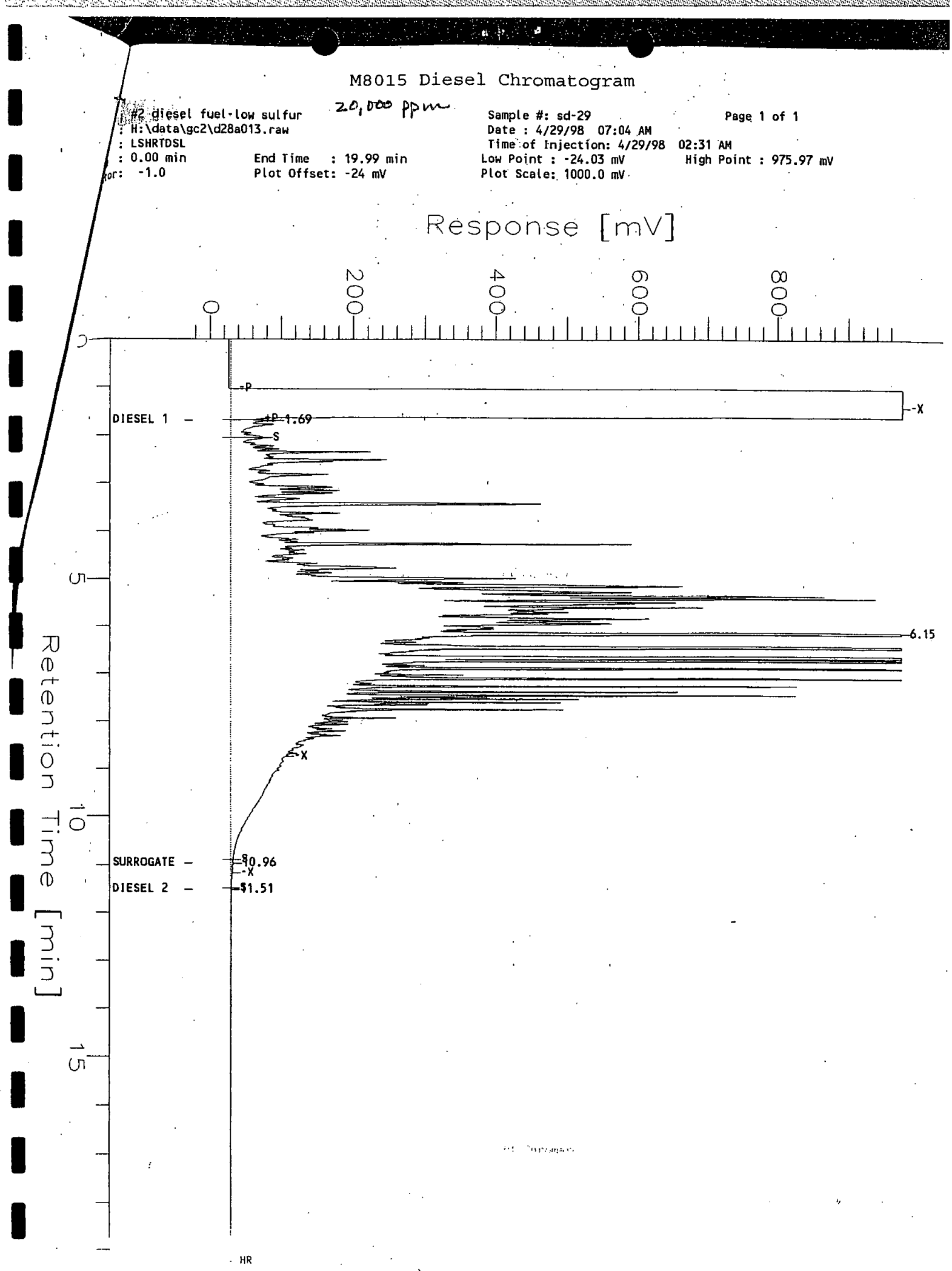


M8015 Diesel Chromatogram

20,000 ppm

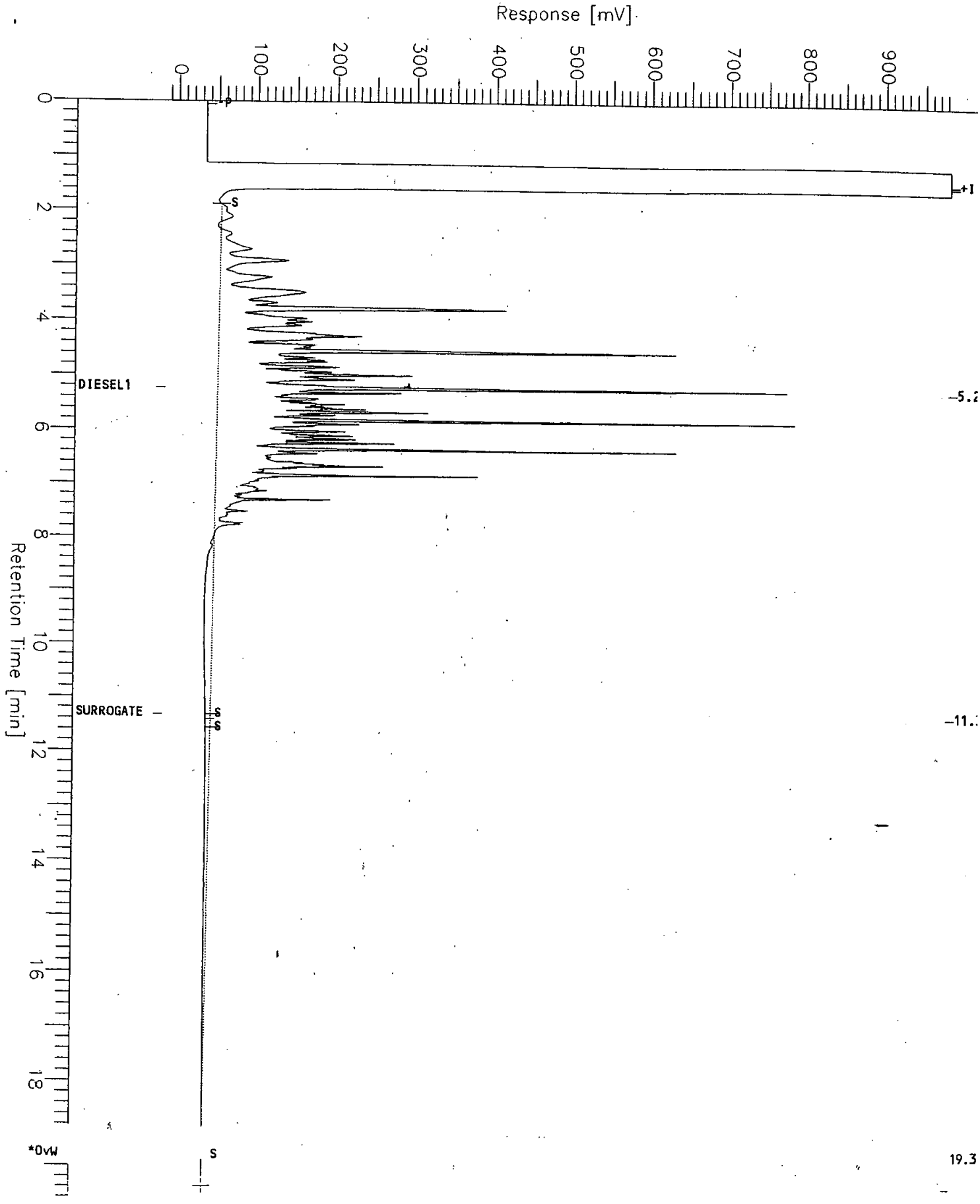
: #2 diesel fuel-low sulfur
: H:\data\gc2\d28a013.raw
: LSHRTDSL
: 0.00 min End Time : 19.99 min
or: -1.0 Plot Offset: -24 mV

Sample #: sd-29 Page 1 of 1
Date : 4/29/98 07:04 AM
Time of Injection: 4/29/98 02:31 AM
Low Point : -24.03 mV High Point : 975.97 mV
Plot Scale: 1000.0 mV



Sample Name : KEROSENE, 2000 PPM
FileName : H:\DATA\GC2\G08A040.RA[redacted]
Method : SHRTDSL.ins
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 1.0 Plot Offset: -16 mV

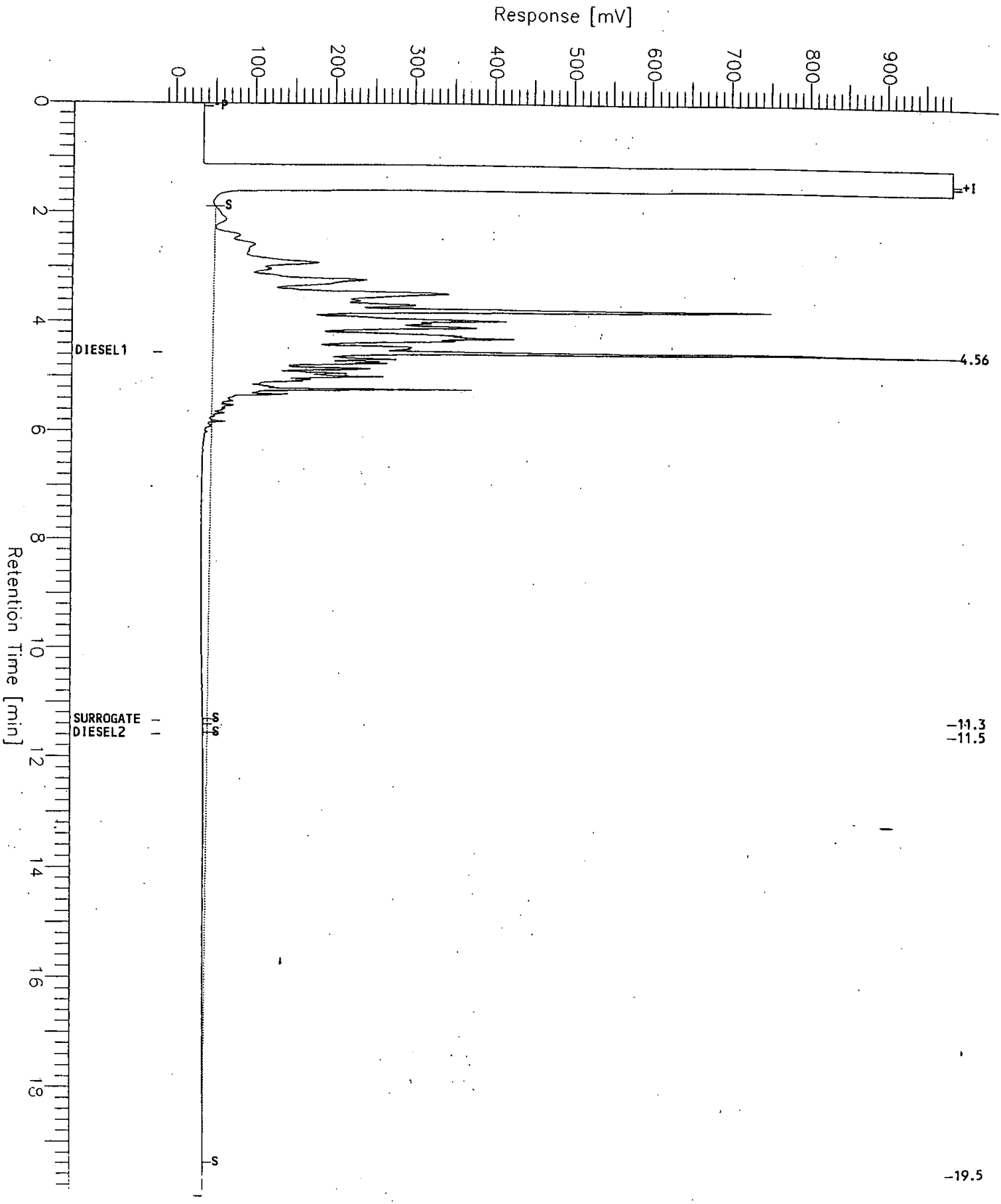
Sample #: FU-005[redacted]
Date : 7/9/99 07[redacted] AM
Time of Injection: 7/9/99 02:45 AM
Low Point : -15.84 mV High Point : 984.16 mV
Plot Scale: 1000.0 mV



M8015 Diesel Chromatogram

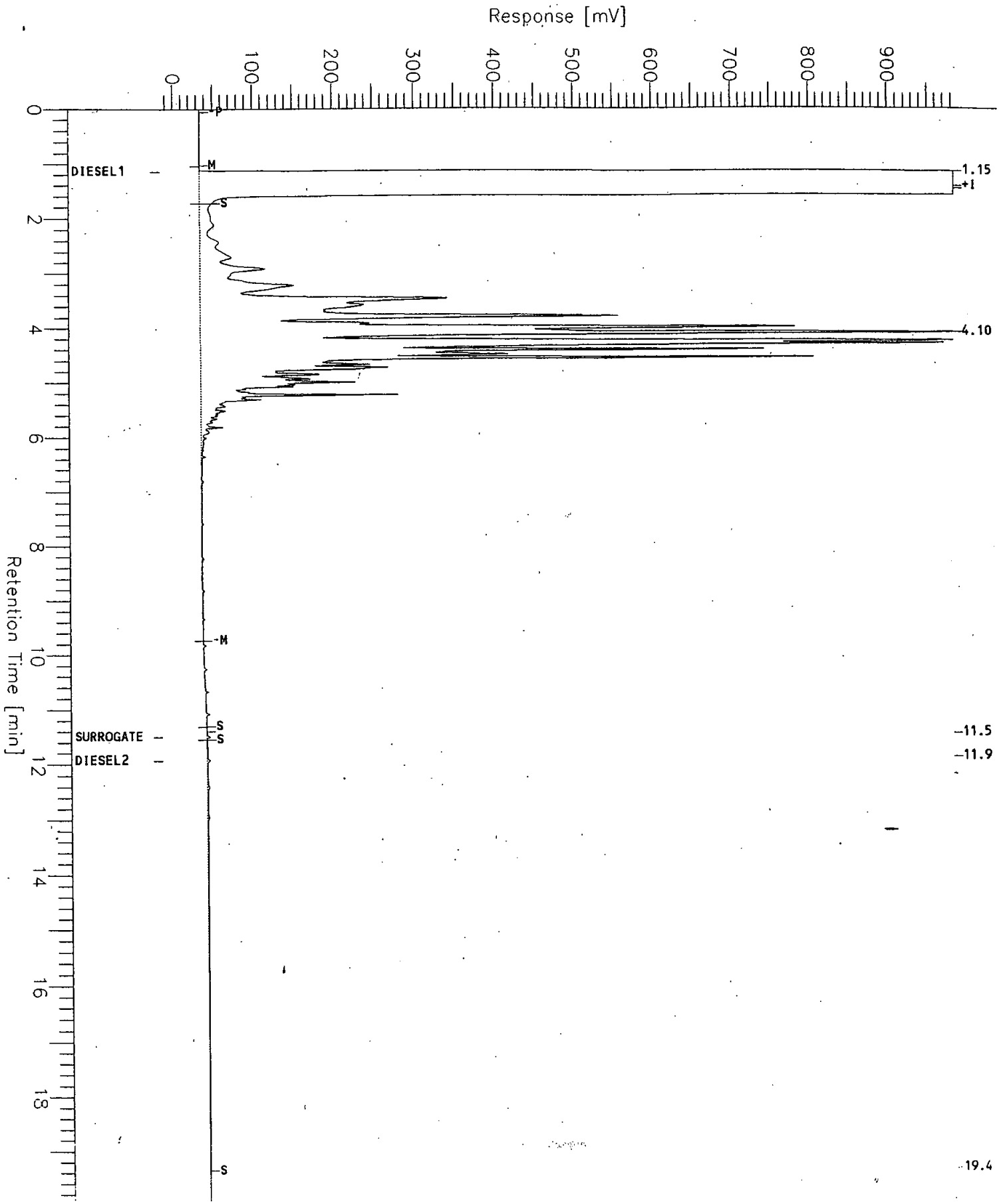
Sample Name : MINERAL SPIRITS, 2000 PPM
FileName : H:\DATA\GC2\G08A044.RAW
Method : SHRTDSL.ins
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 1.0 Plot Offset: -16 mV

Sample #: HS-002S-D
Date : 7/9/99 07:45 AM
Time of Injection: 7/9/99 04:28 AM
Low Point : -15.80 mV High Point : 984.20 mV
Plot Scale: 1000.0 mV



Sample Name : JP-TS AVIATION FUEL, 2000 PPM
FileName : H:\DATA\GC2\G08A012.RAW
Method : SHRTDSL.ins
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 1.0 Plot Offset: -16 mV

Sample #: FU-016-D Page 1 of 1
Date : 7/9/99 07:12
Time of Injection: 7/8/99 02:40 PM
Low Point : -16.16 mV High Point : 983.84 mV
Plot Scale: 1000.0 mV



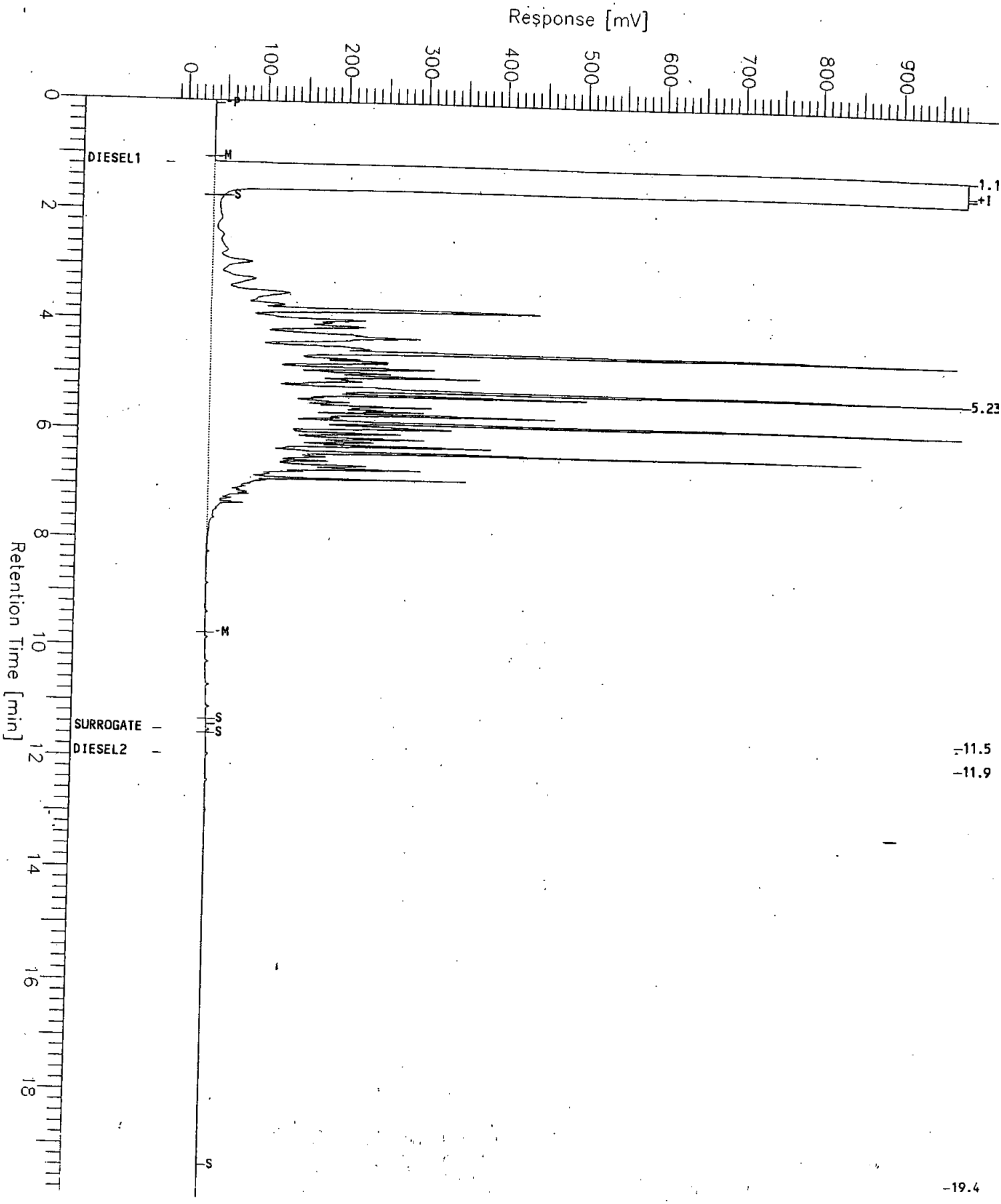
M8015 Diesel Chromatogram

Sample Name : JP-5 JET FUEL, 2000 PPM
FileName : H:\DATA\GC2\G08A014.RAW
Method : SHRTDSL.ins
Start Time : 0.00 min
Scale Factor: 1.0

End Time : 19.99 min
Plot Offset: -16 mV

Sample #: FU-012-[redacted]
Date : 7/9/99 07:13 AM
Time of Injection: 7/8/99 03:32 PM
Low Point : -16.16 mV
Plot Scale: 1000.0 mV

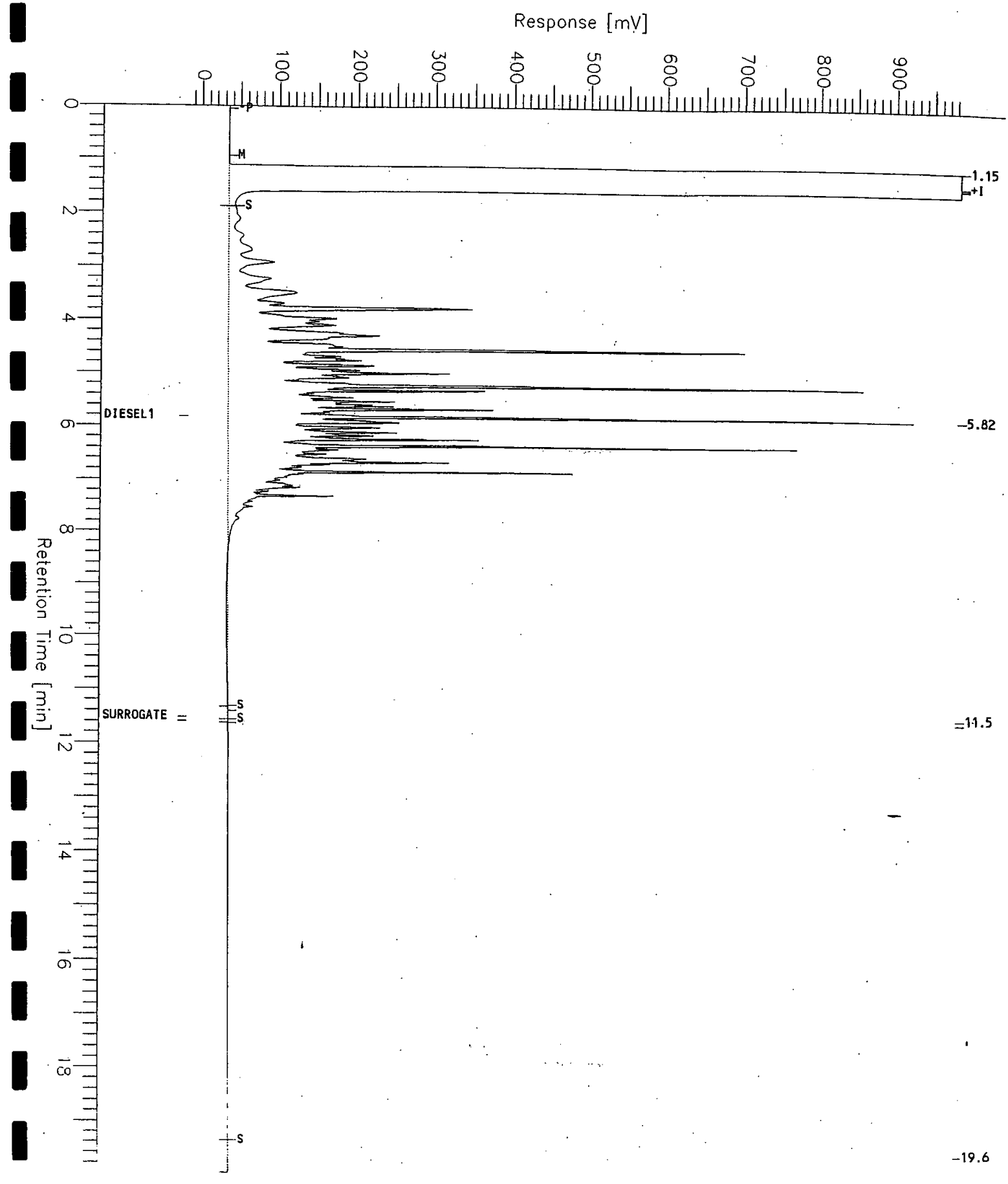
High Point : 983.84 mV



M8015 Diesel Chromatogram

Sample Name : #1 FUEL OIL, 2000 PPM
FileName : H:\DATA\GC2\G08A035.RAW
Method : SHRTDSL.ins
Start Time : 0.00 min End Time : 19.99 min
Scale Factor: 1.0 Plot Offset: -16 mV

Sample #: FU-001-D
Date : 7/9/99 07:39 AM
Time of Injection: 7/9/99 12:36 AM
Low Point : -15.80 mV High Point : 984.20 mV
Plot Scale: 1000.0 mV



B&W Motor oil 20,000 ppm

M8015 Diesel Chromatogram

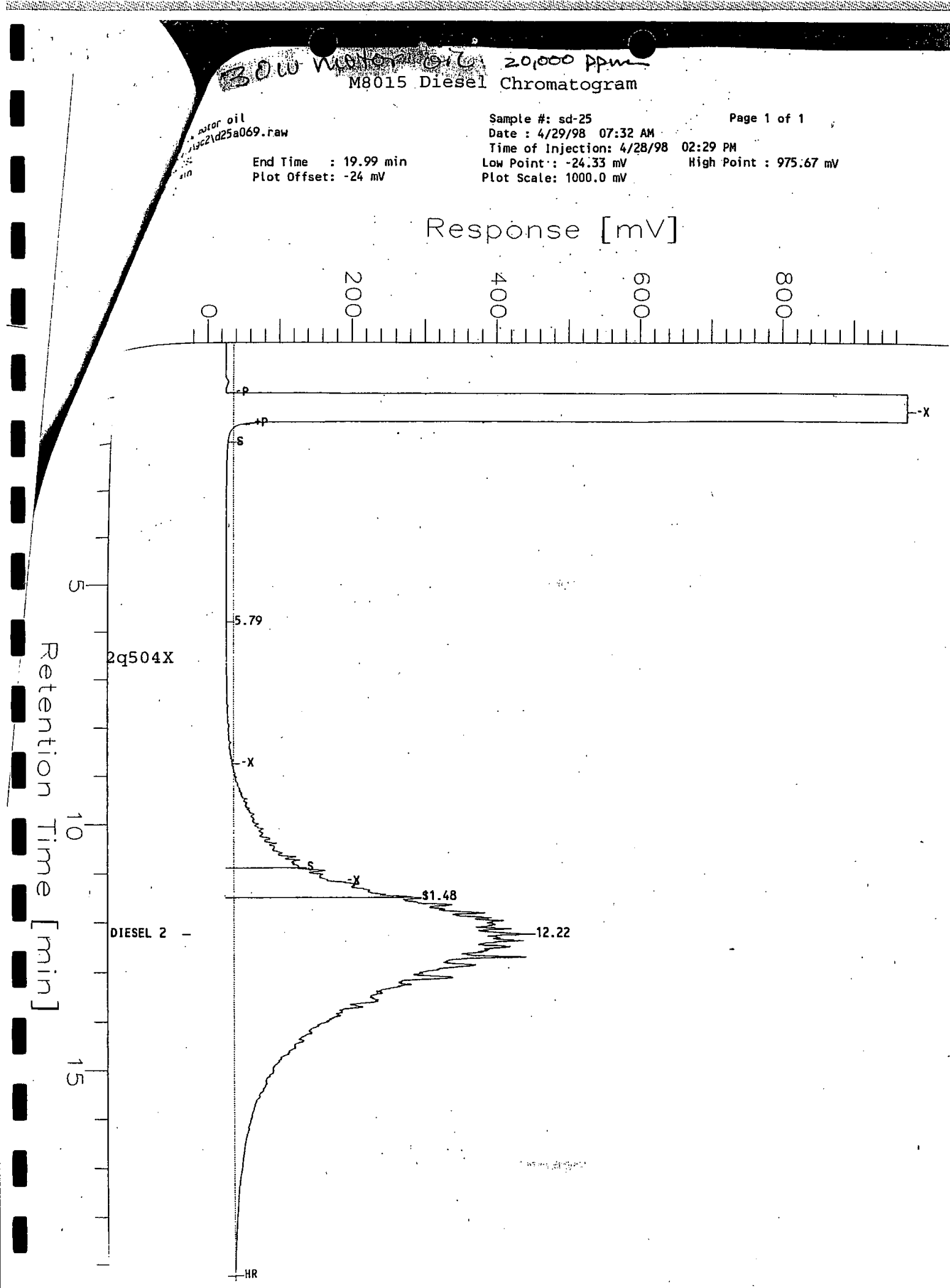
motor oil
gc2\d25a069.raw

Sample #: sd-25
Date : 4/29/98 07:32 AM
Time of Injection: 4/28/98 02:29 PM

End Time : 19.99 min
Plot Offset: -24 mV

Low Point : -24.33 mV
Plot Scale: 1000.0 mV

High Point : 975.67 mV



Product Piping Removal (10/97)

teg

For [illegible]

See if you can get chromatograms from TPH

GTB COMPANY PROJECT #19469-NT1976
EL CAPITAN OIL
11427 WOODSIDE AVENUE
SAN DIEGO, CA

GTB was working for Linda Likens.

OCT [illegible] 2 35 PM '97

TEG Project #971007-10

TPH (DOHS EPA Method 8015 Modified) ANALYSES OF SOILS

SAMPLE NUMBER	DATE ANALYZED	TPH-GAS C5-C11 (mg/kg)	TPH-DIESEL C12-C24 (mg/kg)
METHOD BLANK	10/10/97	ND	ND
P-1	10/10/97	18	5,537
P-1 DUP	10/10/97	43	9,799
P-2	10/10/97	175	21,218
P-3	10/10/97	ND	ND
P-4	10/10/97	30	9,584
P-5	10/10/97	65	3,025
P-6	10/10/97	136	6,624
P-7	10/10/97	467	13,372
P-8	10/10/97	2,279	10,632
P-9	10/10/97	3,043	5,759
P-10	10/10/97	224	115,444
DETECTION LIMITS		10	10

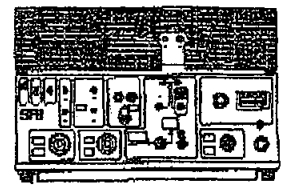
ND INDICATES NOT DETECTED AT LISTED DETECTION LIMITS

ANALYSES PERFORMED IN TEG'S CA DOHS CERTIFIED MOBILE LABORATORY (CERT #1839)
ANALYSES PERFORMED BY: MS. SHERI HARTMAN
DATA REVIEWED BY: Sheri Hartman
10-20-97

Diesel only

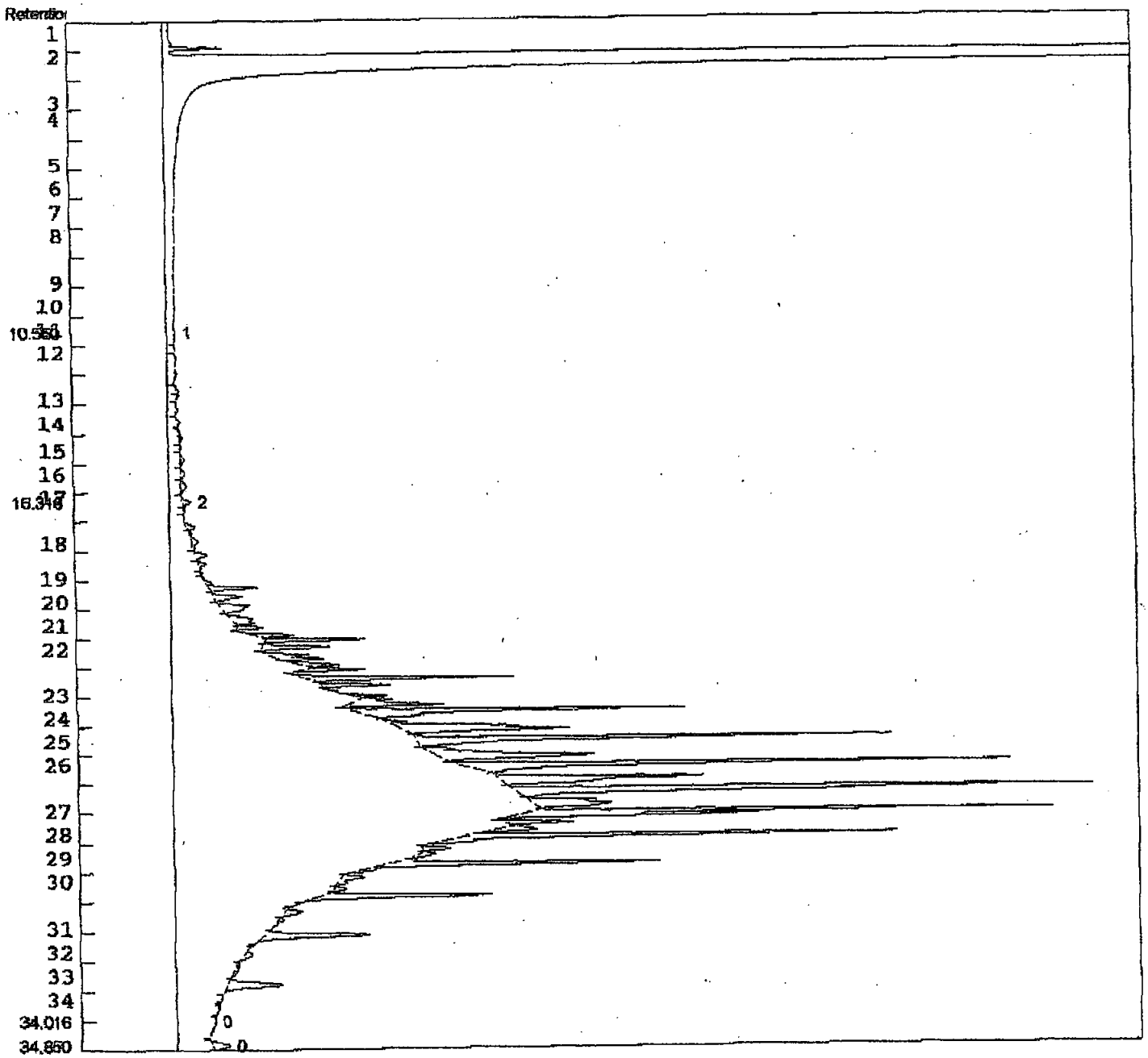
P-1

Lab name: TEG Trailer #1839
Client: GTB
Client ID: El Capitan
Analysis date: 10/10/1997 06:06:19
Method: EPA Method 8015 Mod.
Lab ID: 971007-10
Description: Ch. 2 - FID
Column: 20 m Glass
Data file: 1006F70.CHR (c:\peakw95\data\0923)
Sample: P-1
Operator: S. W. Hartman



-5.000mV

50.000mV



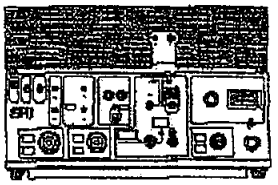
Component	Retention	Area	External	Units	Internal	Units
Gasoline	10.550	16.980	18.43	mg/kg	18.4265	mg/kg
Diesel	16.316	1954.683	5537.35	mg/kg	5537.3456	mg/kg
(unknow		1.711	0.00		0.0000	

NO.1111 P. 3/13 HP LABS NOV.12. 2002 11:21AM

Diesel only

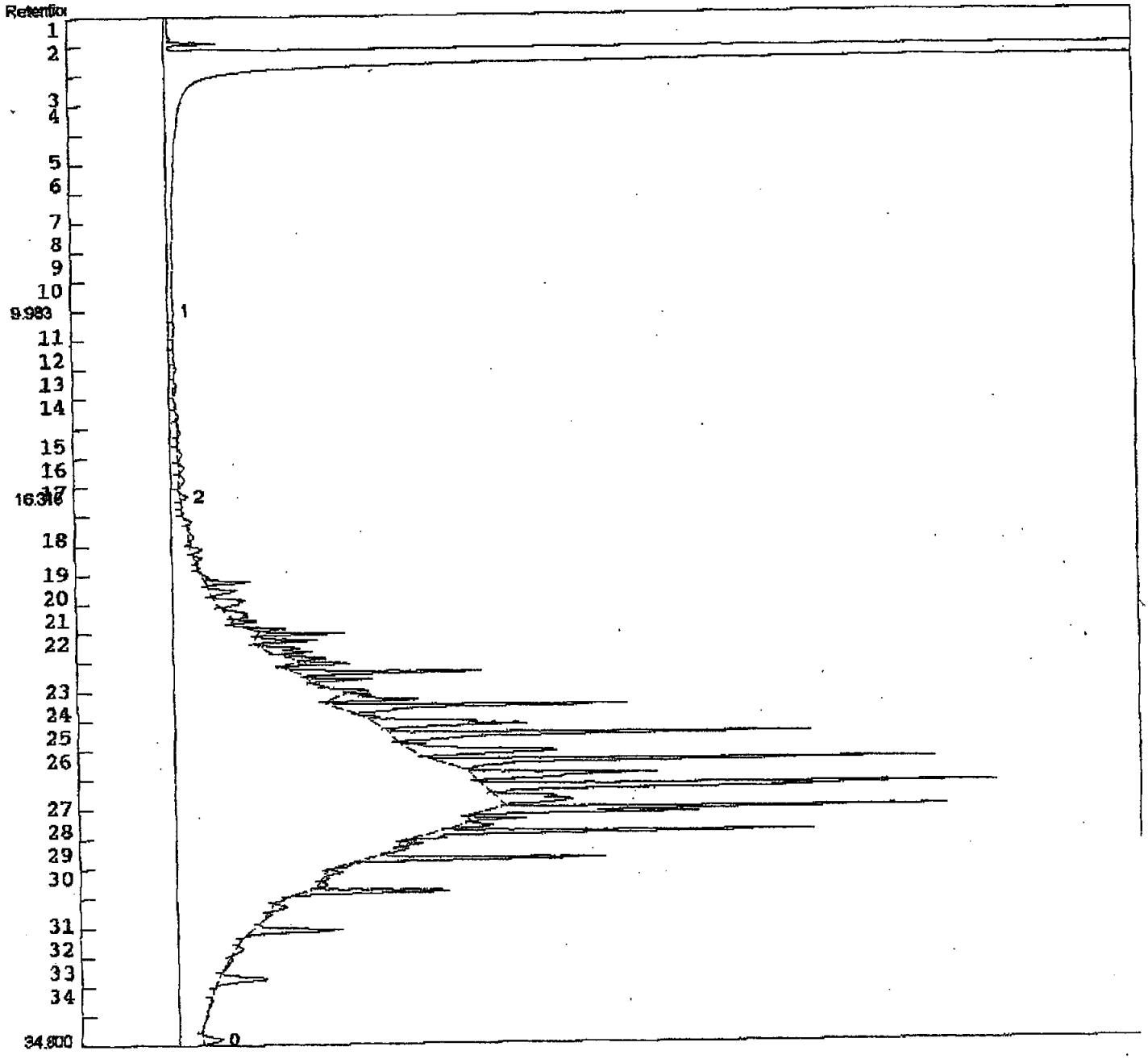
P-1 dup

Lab name: TEG Trailer #1839
Client: GTB
Client ID: El Capitan
Analysis date: 10/10/1997 05:21:37
Method: EPA Method 8015 Mod.
Lab ID: 971007-10
Description: Ch. 2 - FID
Column: 20 m Glass
Data file: 1008F69.CHR (c:\peakw95\data\0923)
Sample: P-1 DUP
Operator: S. W. Hartman



-10.000mV

100.000mV



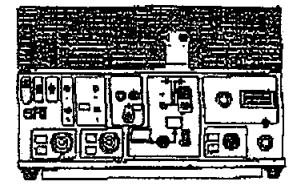
Component	Retention	Area	External	Units	Internal	Units
Gasoline	9.983	39.651	43.03	mg/kg	43.0286	mg/kg
Diesel	16.316	3459.216	9799.48	mg/kg	9799.4788	mg/kg
(unknow		22.690	0.00		0.0000	

NO.1711 P. 4/13
NOV.12. 2002 11:21AM HP LABS

Diesel Only

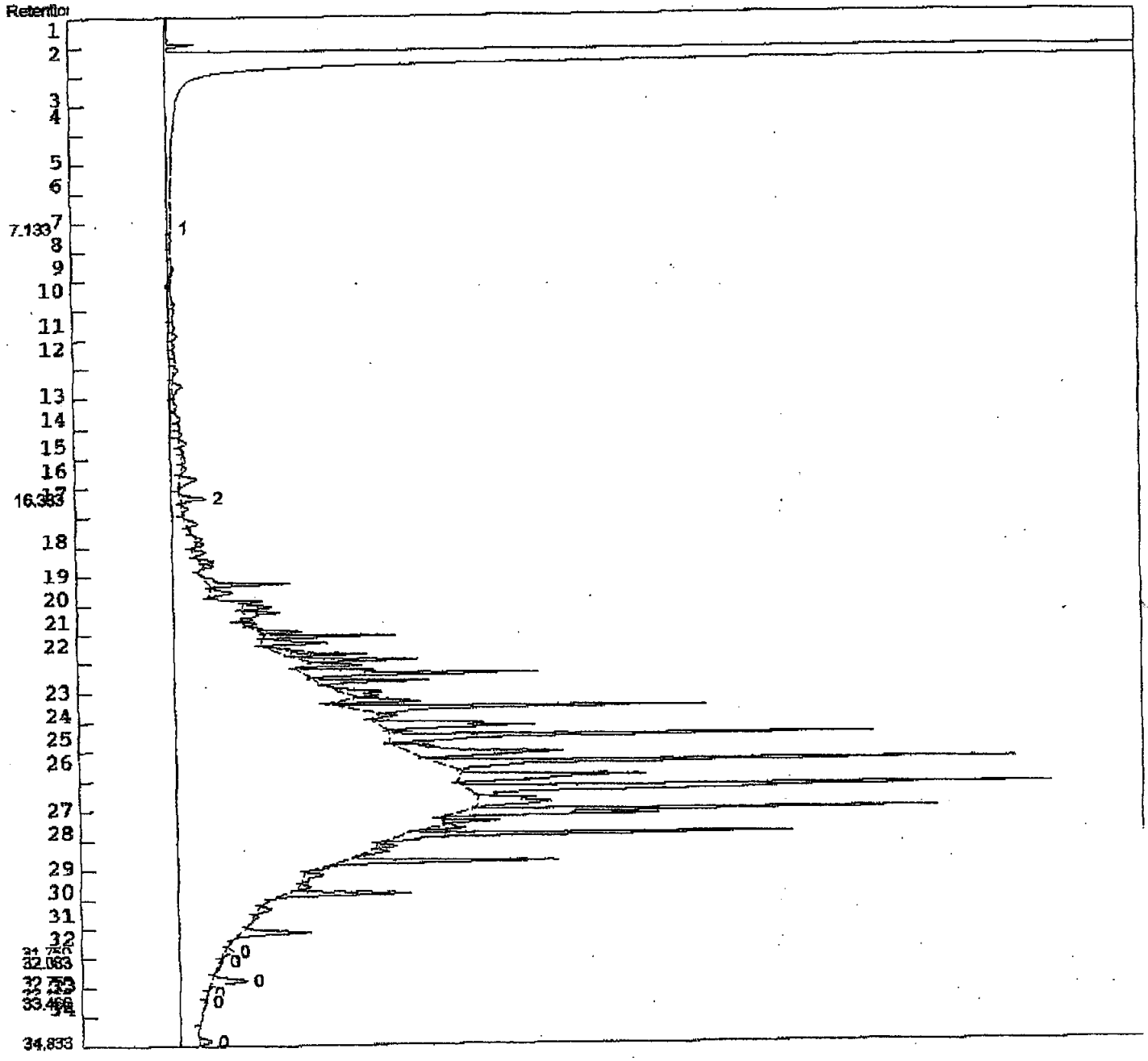
P-2

Lab name: TEG Trailer #1839
Client: GTB
Client ID: El Capitan
Analysis date: 10/10/1997 03:07:38
Method: EPA Method 8015 Mod.
Lab ID: 971007-10
Description: Ch. 2 - FID
Column: 20 m Glass
Data file: 1008F66.CHR (c:\peakw95\data\0923)
Sample: P-2
Operator: S. W. Hartman



-20.000mV

200.000mV



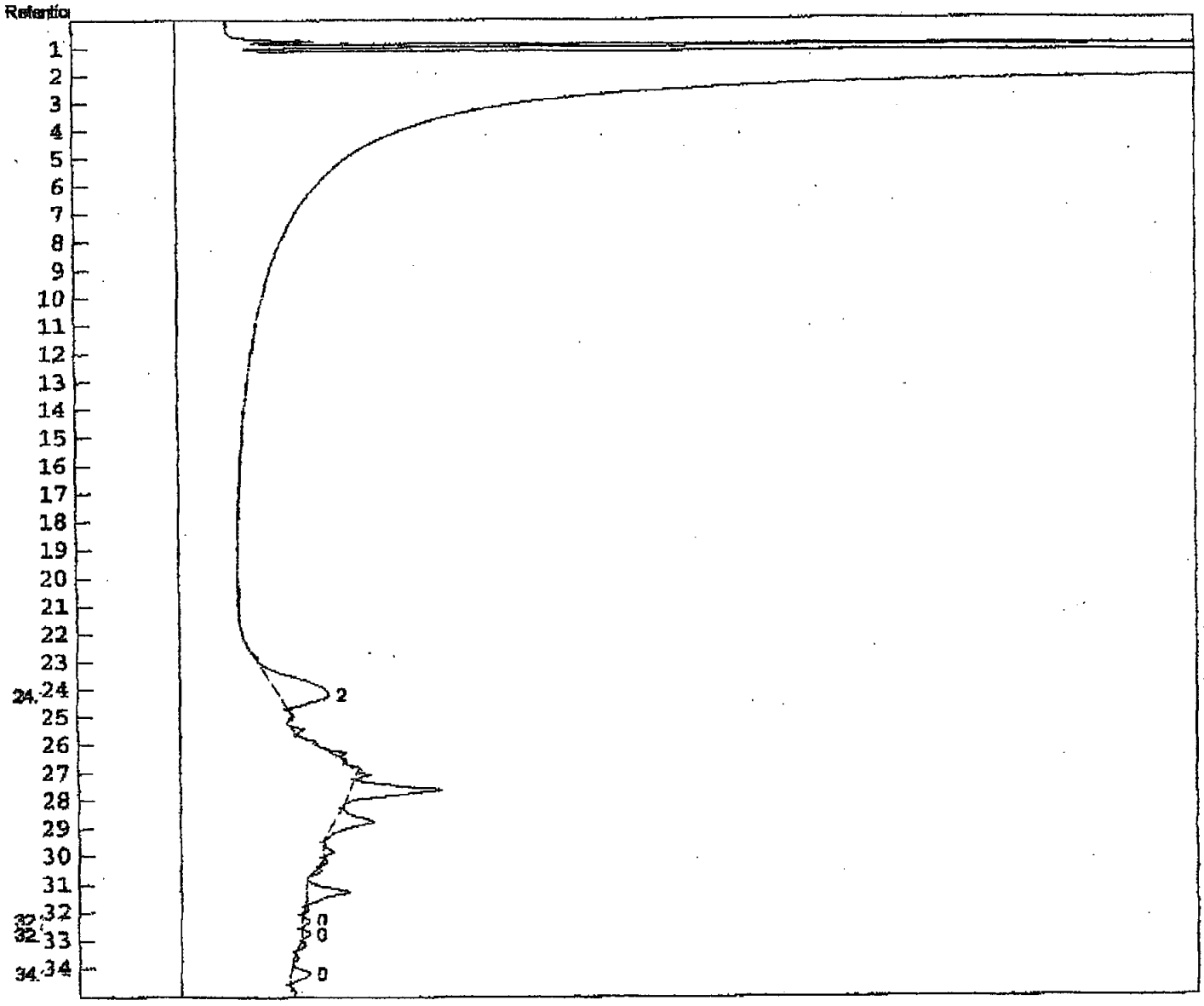
Component	Retention	Area	External	Units	Internal	Units
Gasoline	7.133	161.675	175.45	mg/kg	175.4476	mg/kg
Diesel	16.333	7490.070	21218.33	mg/kg	21218.3286	mg/kg
(unknow		18.296	0.00		0.0000	

NO.111 P. 5/13 HP LABS NOV.12. 2002 11:22AM

Non Detect

Lab name: TEG Trailer #1639
Client: [redacted] GTB
Client ID: [redacted] El Capitan Oil
Analysis date: 10/10/1997 02:22:59
Method: EPA Method 8015 Mod.
Lab ID: [redacted] 971007-10
Description: Ch. 2 - FID
Data file: 1008f65.chr (A:\)
Sample: [redacted] P-3
Operator: S. W. Hartman

-0.625mV 6.250mV



Component	Retention	Area	External	Units	Internal	Units
Diesel	24.183	46.660	129.35	mg/kg	129.3484	mg/kg
(unknown)	32.283	0.620	0.00		0.0000	
(unknown)	32.766	0.578	0.00		0.0000	
(unknown)	34.166	2.523	0.00		0.0000	
		49.381	129.35		129.3484	

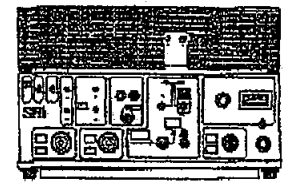
Non-Detect

NOV.12. 2002 11:22AM HP LABS NO.1/11 P. 6/13

Lab name: TEG Trailer #1839
Client: GTB
Client ID: El Capitan
Analysis date: 10/10/1997 01:38:18
Method: EPA Method 8015 Mod.
Lab ID: 971007-10.
Description: Ch. 2 - FID
Column: 20 m Glass
Data file: 1008F64.CHR (c:\peakw95\data\0823)
Sample: P-4
Operator: S. W. Hartman

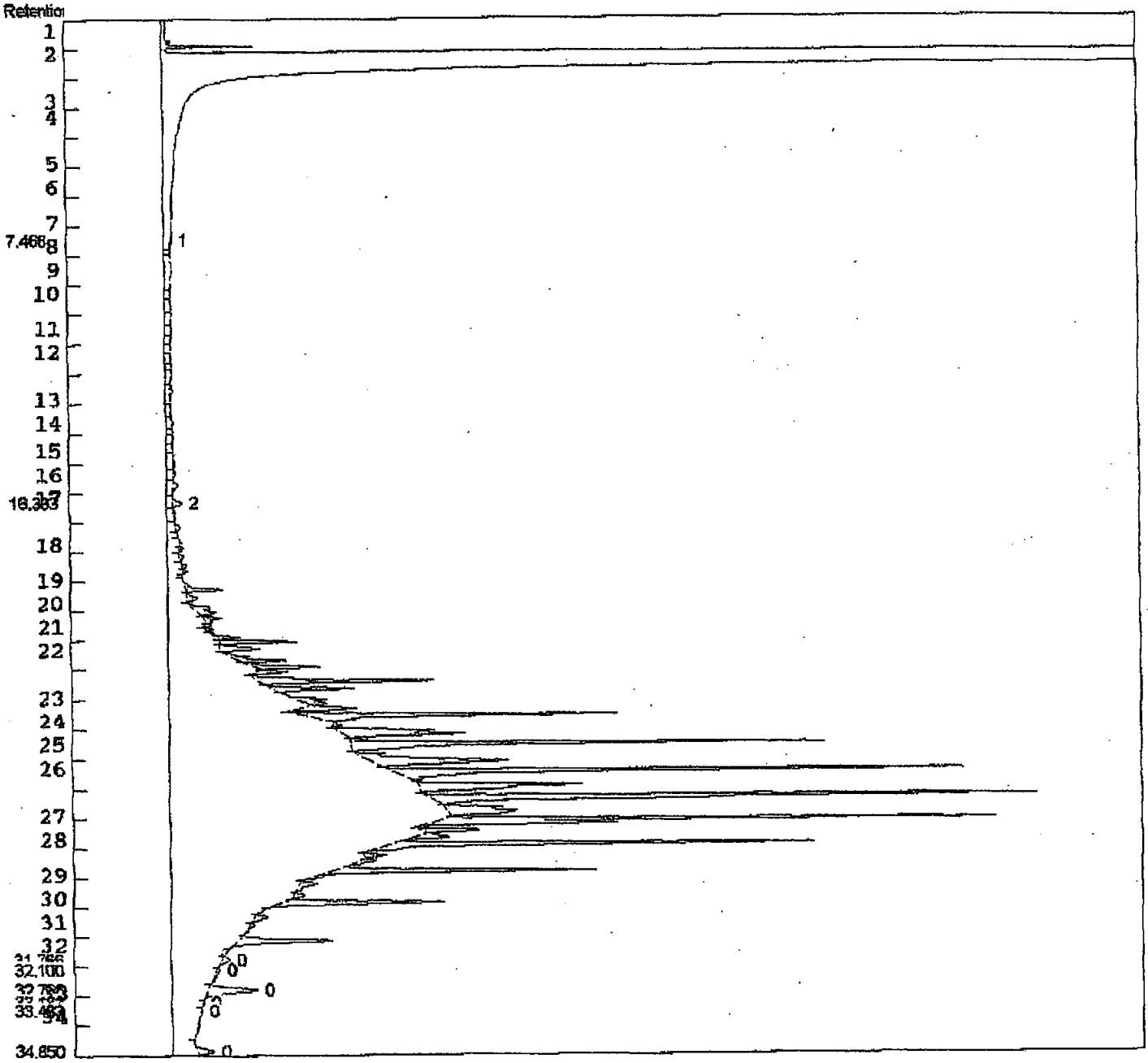
P-4

Diesel only



-10.000mV

100.000mV



Component	Retention	Area	External	Units	Internal	Units
Gasoline	7.466	27.254	29.58	mg/kg	29.5757	mg/kg
Diesel	16.333	3383.109	9583.88	mg/kg	9583.8782	mg/kg
(unknown)	[illegible]	6.559	0.00		0.0000	

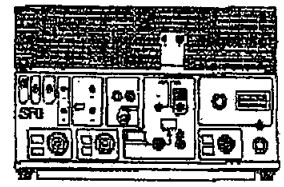
NOV.12. 2002 11:22AM HP LABS P. 7/13

~~Diesel and gas~~

P-5

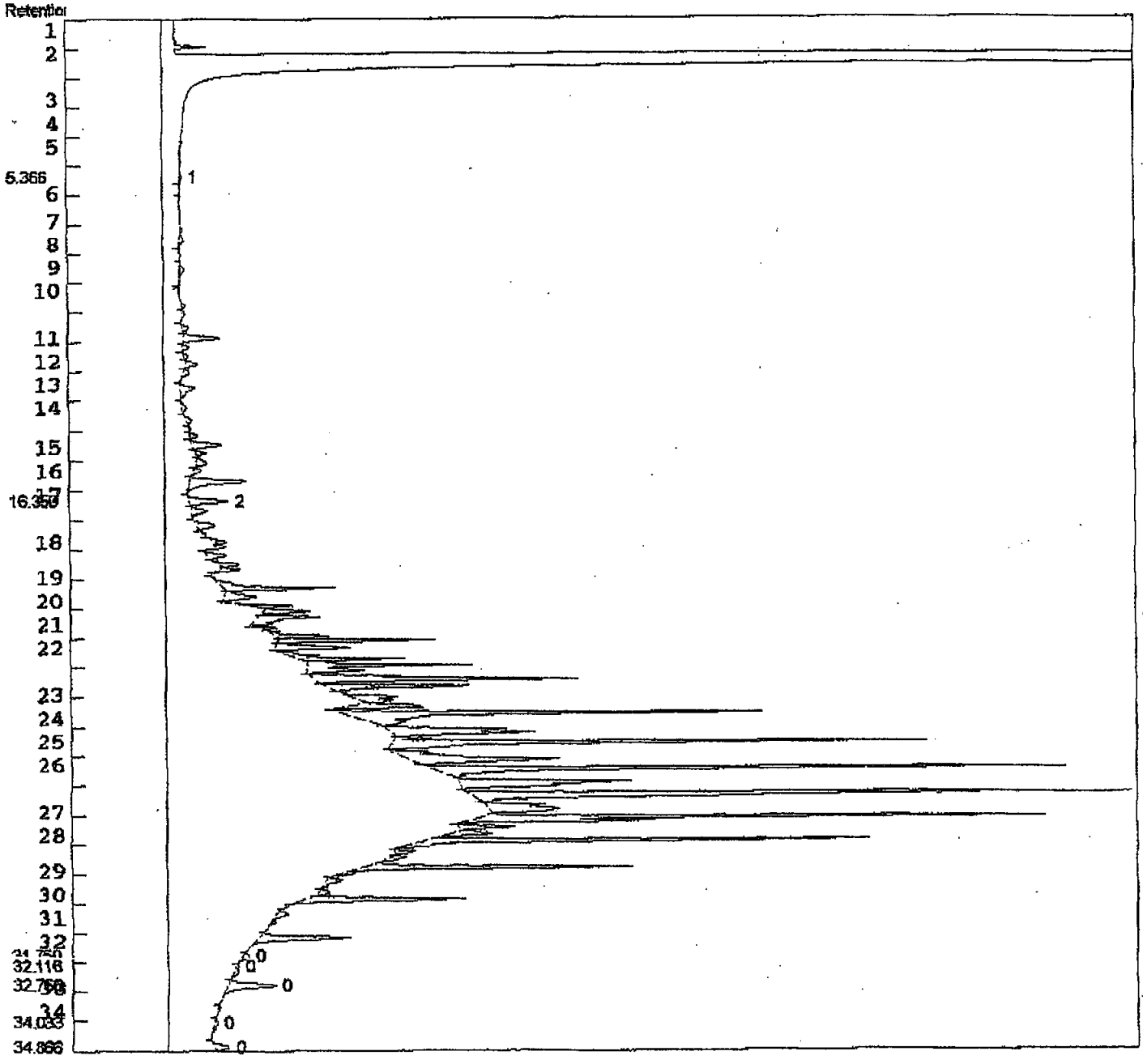
Diesel and possible gas

Lab name: TEG Trailer #1839
Client: GTB
Client ID: El Capitan
Analysis date: 10/10/1997 00:53:36
Method: EPA Method 8015 Mod.
Lab ID: 971007-10
Description: Ch. 2 - FID
Column: 20 m Glass
Data file: 1008F63.CHR (c:\peakw95\data\0923)
Sample: P-5
Operator: S. W. Hartman



-2.500mV

25.000mV

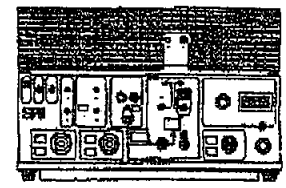


Component	Retention	Area	External	Units	Internal	Units
Gasoline	5.366	60.315	55.45	mg/kg	65.4531	mg/kg
Diesel	16.350	1067.884	3025.17	mg/kg	3025.1671	mg/kg
(unknown)		2.100	0.00		0.0000	

NO.1711 P. 8/13
NOV.12. 2002 11:22AM HP LABS

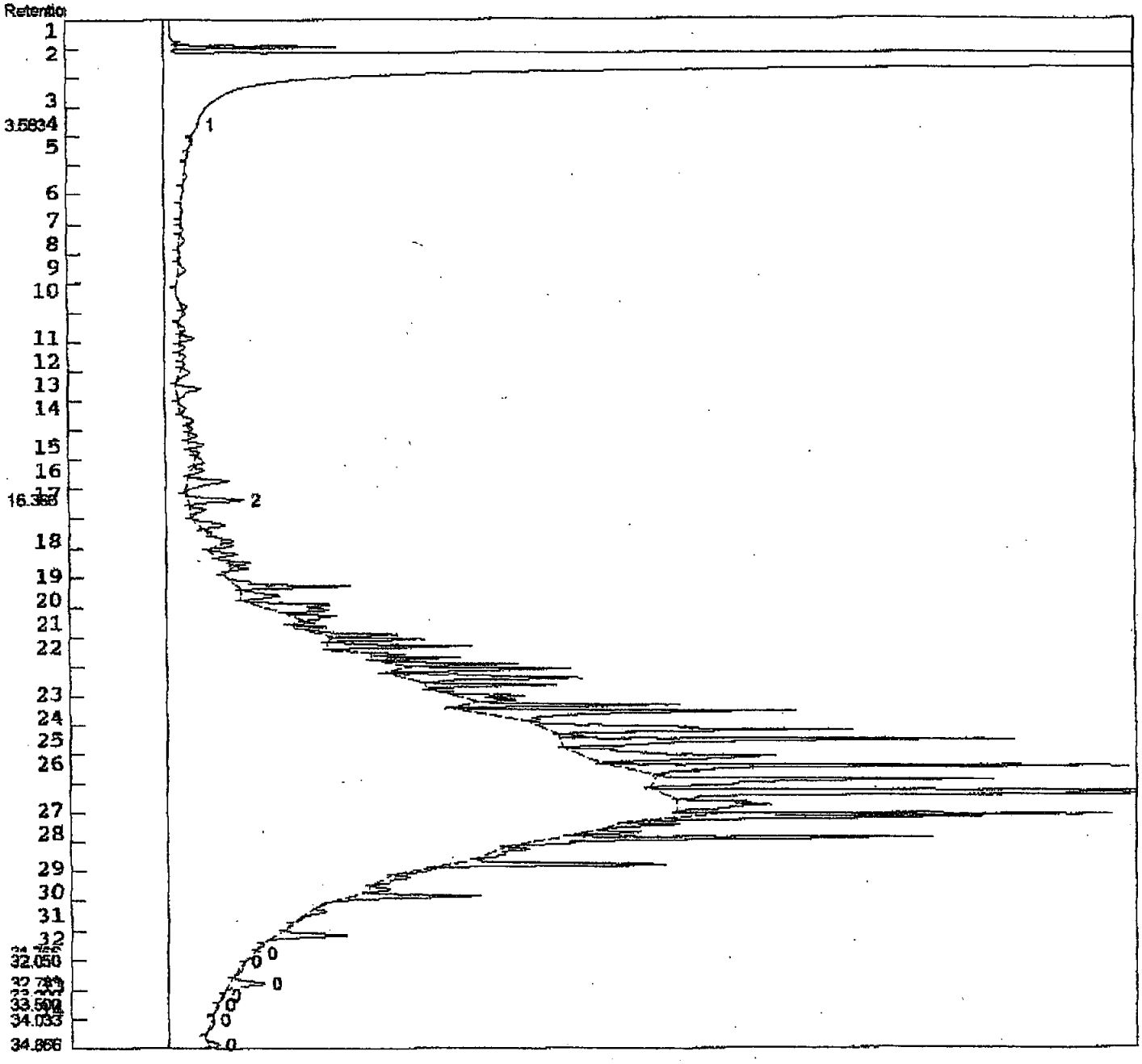
P-6

Diesel ~~only~~ and possible gas



Lab name: TEG Trailer #1839
Client: GTB
Client ID: El Capitan
Analysis date: 10/10/1997 00:08:47
Method: EPA Method 8015 Mod.
Lab ID: 971007-10
Description: Ch. 2 - FID
Column: 20 m Glass
Data file: 1008F62.CHR (c:\peakw65\data\0923)
Sample: P-6
Operator: S. W. Hartman

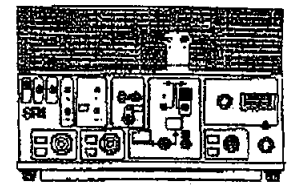
-5.000mV 50.000mV



Component	Retention	Area	External	Units	Internal	Units
Gasoline	3.583	125.376	136.08	mg/kg	136.0564	mg/kg
Diesel	16.366	2338.110	6623.54	mg/kg	6623.5411	mg/kg
(unknown)	31.766	5.094	0.00		0.0000	

No. 1711 P. 9/13
Nov. 12. 2002 11:23AM HP LABS

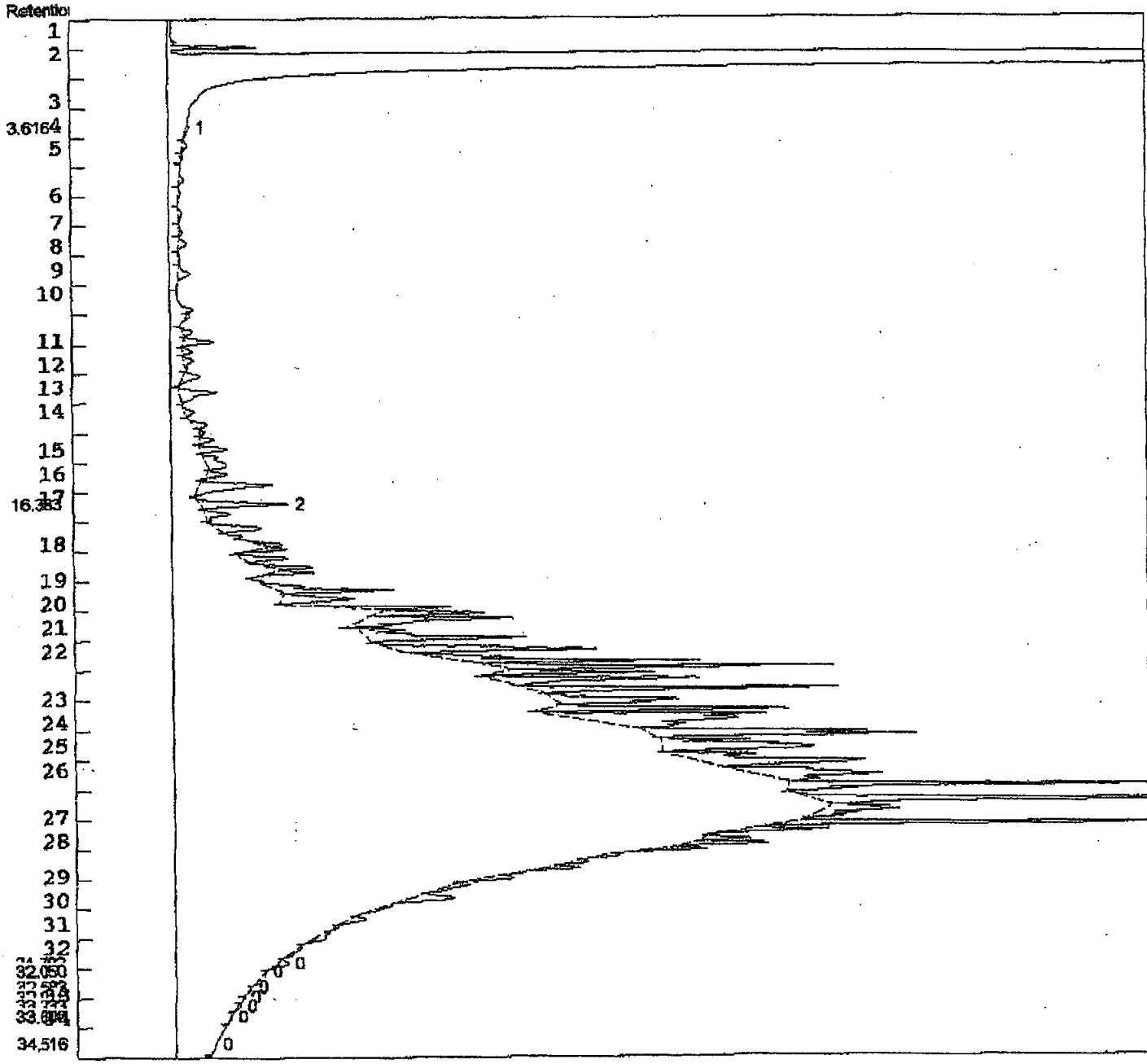
Lab name: TEG Trailer #1839
Client: GTB
Client ID: El Capitan
Analysis date: 10/09/1997 23:23:52
Method: EPA Method 8015 Mod.
Lab ID: 971007-10
Description: Ch. 2 - FID
Column: 20 m Glass
Data file: 1008F61.CHR (c:\pealw95\data\0923)
Sample: P-7
Operator: S. W. Hartman



diesel and possible gas

-10.000mV

100.000mV



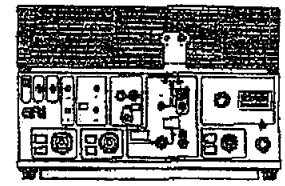
Component	Retention	Area	External	Units	Internal	Units
Gasoline	3.616	430.113	466.75	mg/kg	466.7531	mg/kg
Diesel	16.383	4720.160	13371.56	mg/kg	13371.5581	mg/kg
(unknown)	31.783	14.464	0.00		0.0000	

No.1711 P. 10/13
HP LABS Nov.12. 2002 11:23AM

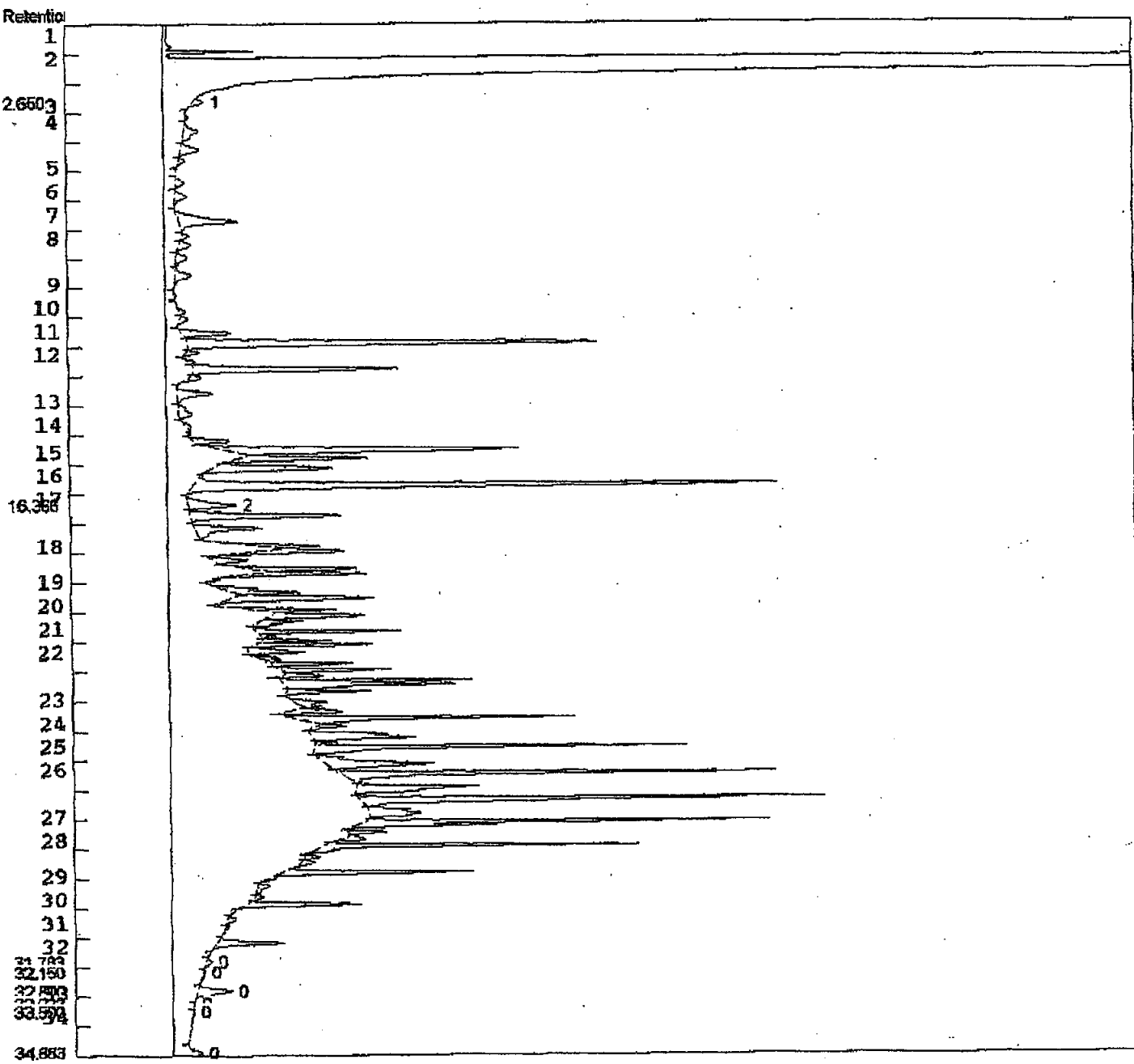
gas + Diesel

P-8

Lab name: TEG Trailer #1639
Client: GTB
Client ID: El Capitan
Analysis date: 10/09/1997 22:38:59
Method: EPA Method 8015 Mod.
Lab ID: 971007-10
Description: Ch. 2 - FID
Column: 20 m Glass
Data file: 1008F60.CHR (c:\peakw95\data\0823)
Sample: P-8
Operator: S. W. Hartman



-10.000mV 100.000mV



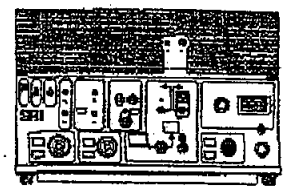
Component	Retention	Area	External	Units	Internal	Units
Gasoline	2.650	2099.714	2278.58	mg/kg	2278.5827	mg/kg
Diesel	16.368	3753.018	10631.78	mg/kg	10631.7790	mg/kg
(unknown	[illegible]	6.259	0.00		0.0000	

NO.1711 P. 11/13
HP LABS NOV.12. 2002 11:23AM

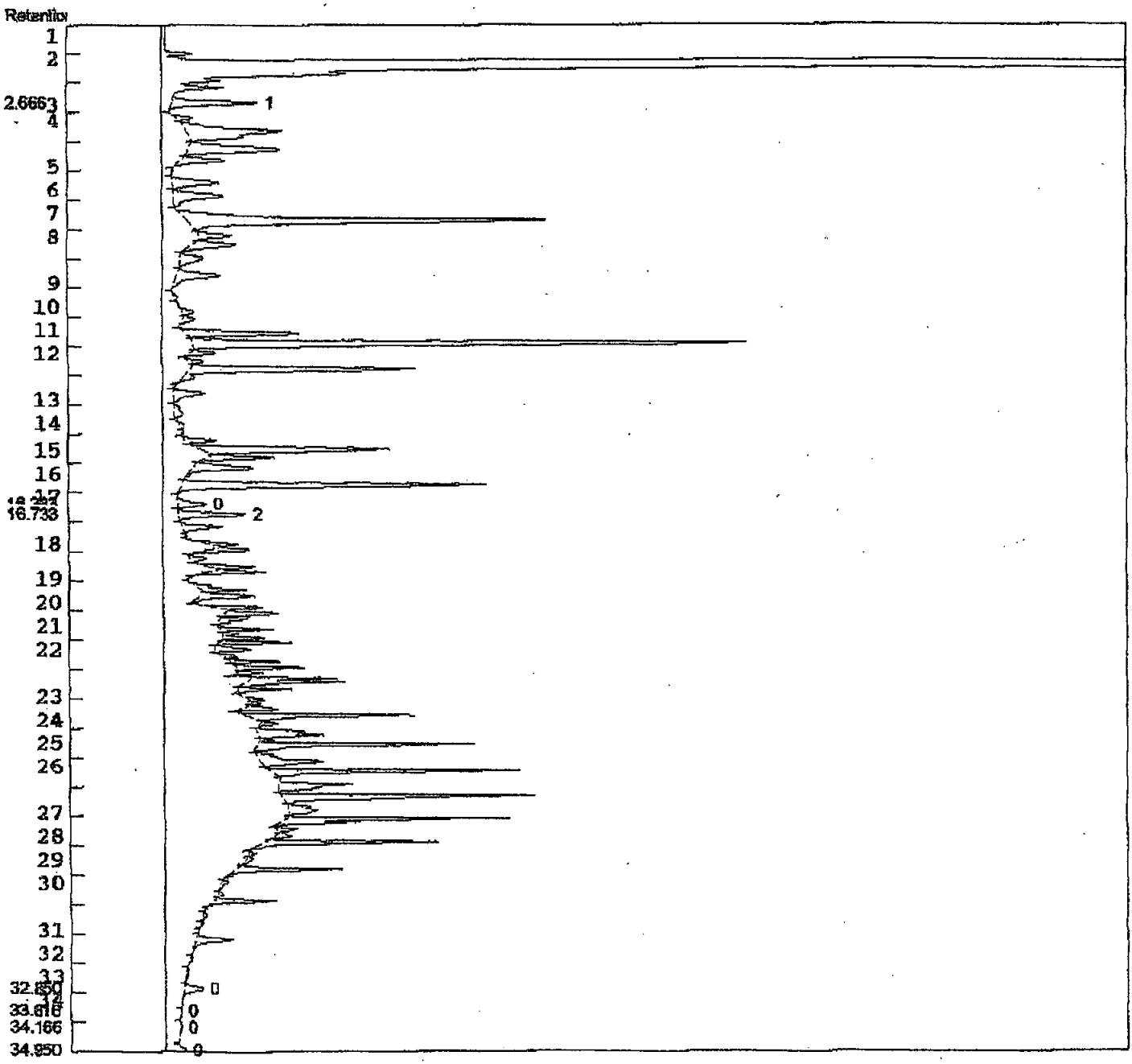
Gas + Diesel

P-9

Lab name: TEG Trailer #1839
Client: GTB
Client ID: El Capitan
Analysis date: 10/10/1997 09:50:43
Method: EPA Method 8015 Mod.
Lab ID: 971007-10
Description: Ch. 2 - FID
Column: 20 m Glass
Data file: 1006F75.CHR (c:\peakw95\data\0923)
Sample: P-9
Operator: S. W. Hartman



-10.000mV 100.000mV



Component	Retention	Area	External	Units	Internal	Units
Gasoline	2.666	2803.966	3042.83	mg/kg	3042.8280	mg/kg
(unknown)	16.383	30.163	0.00		0.0000	
Diesel	[illegible]	2032.752	5758.50	mg/kg	5758.5042	mg/kg

P. 12/13 NO. 1/11 HP LABS NOV. 12. 2002 11:23AM

Tank Removal (4/98)

MOBILE ONE LABORATORIES INC.

Report Summary

(B)

Client: South Bay Environmental Services
Project: El Capitan Oil
Matrix: soil

Method	TPH gasoline	TPH diesel	TRPH	MTBE **	Benzene	Toluene	Ethyl-benzene	Xylenes
Detection Limit (mg/kg)	10	10	10	0.1	0.05	0.05	0.05	0.15
SAMPLE I.D.								
Date Analyzed: 04/29/98								
T1-1-15.5'	nd	nd						
T1-2-15'	400&	2,000#		3.7**	0.12	0.95	11	64
T2-1-14'	nd	11#						
T2-2-16'	nd	nd						
T3-6.4'			4,300					
T4-10'	820&	nd						
T5-E-6.3'			260					
T5-W-6'			5,900					
T6-E-16'	nd	1,100						
T6-W-16.5'	nd	1,800						
T7-E-16'	nd	800						
T7-W-16'	nd	23,000						
T8-E-16'	nd	25						
T8-W-16'	nd	1,900						
T9-E-15.5'	nd	30						
T9-W-17'	nd	4,200						
P1-4.0'	nd	370#						

Method	TPH gasoline	TPH diesel	TPH C_{25}-C_{44}	TRPH	Benzene	Toluene	Ethyl-benzene	Xylenes
Detection Limit (mg/kg)	10	10	10	10	0.05	0.05	0.05	0.15
T3-9.5'	220&	1200#	190	1,900				

nd = not found above the detection limit
& = gasoline range organics (C_6-C_{12}) not identified as gasoline
# = diesel range organics (C_{13}-C_{24}) not identified as diesel
* = sample dilution was required. Detection limits were adjusted accordingly.
** = This compound has been screened by EPA method 8020. Any positive results should be confirmed by a second analysis.
= A second analysis has been performed on this sample by Mass Spectrometry. The results are as indicated.
Analyses performed by: Bret Hutchinson

SB3

148 SO. VINEWOOD STREET • ESCONDIDO, CA 92029 • PHONE (760) 735-3208 • FAX (760) 735-2469

SAM Chain-of-Custody Record

Date 4/29/98 Page 1 of 2

Project Name El Capitan Oil
Reference
Address 11427 Woodside Ave.
Santee, CA 92071
Sampler's Signature
Lab To Be Used MOBILE ONE

SAMPLE NO.	DATE	TIME	LOCATION	TPH DOHS METHOD	TRPH EPA 418.1	BTXE/mTBE (8020/602)	HALOGENATED (8010/601)		TPH ext.	SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
T5-E-6.3	4/29/98	11:57	East end of w.o. tank, Tank 5 @ 6.3 ft. bgs		X					X		X		1	
T5-W-6	4/29/98	11:52	west end of w.o. tank Tank 5 @ 6.0 ft bgs		X					X		X		1	Please provide
T3-9.5	4/29/98	12:04	collected below T3-6.4 vertical sample @ 9.5'		X				X	X		X		1	carbon range
T3-6.4	4/29/98	12:02	collected below w.o. tank Tank 3 @ 6.4 ft. bgs		X					X		X		1	
P1-4.0	4/29/98	12:18	piping sample @ 4.0' bgs 8 ft. from Bldg-8' North	X						X		X		1	BTEX / MTBE
T4-10	4/29/98	12:11	10 ft. bgs middle of T4 (gap) @ 10 ft. bgs.	X						X		X		1	requested by PVC
T1-1-15.5	4/29/98	12:38	collected beneath sample T1-2-15	X		X	PVC		PVC	X		X		1	County Inspector.
T1-2-15	4/29/98	12:40	center of Tank 1 @ 15 ft. bgs	X		X				X		X		1	
T2-1-14	4/29/98	12:44	collected from center of Tank 2 @ 14 ft. bgs.	X						X		X		1	

ANALYSIS REQUESTED | SAMPLE TYPE

COPY OF LAB RESULTS MUST BE SENT TO:
Dept. of Environmental Health
Site Assessment and Mitigation Division
P.O. Box 85261
San Diego, CA 92186-5261

COMMENTS

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
Signature	4/29/98	Signature		Signature	
Printed Name Steve Hoggatt	Time 1:36	Printed Name	Time	Printed Name	Time
Company		Company		Company	
RECEIVED BY	Date	RECEIVED BY	Date	RECEIVED BY (LAB)	Date
Signature BRET HUTCHINSON	4/29/98	Signature		Signature	
Printed Name MOL	Time 1:36	Printed Name	Time	Printed Name	Time
Company		Company		Company	

9 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice N/A Yes/No
Tape Seal Intact N/A Yes/No

Special Shipment/Handling Or Storage Requirements: None
mobile lab onsite.

Split Sample Location
none

Site Identification
H# 19469 AT# 4031
SAM Pamela Villa Clay

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - SAM

DEH:SAM-999 (8/95) NCR

County of San Diego
Department of Environmental Health

SAM Chain-of-Custody Record

Date 4/29/98 Page 2 of 2

Project Name El Capitan Oil
Reference
Address 11427 Woodside Ave
Santee, CA 92071
Sampler's Signature [signature]
Lab To Be Used MOBILE ONE

SAMPLE NO.	DATE	TIME	LOCATION	TPH DOHS METHOD	TRPH EPA 418.1	BTXE (8020/602)	HALOGENATED (8010/601)			SOLID	LIQUID	GRAB	COMPOSITE	NO. OF CONTAINERS	COMMENTS
T2-2-16	4/29/98	12:45	sample beneath former Tank 2 @ 16' bgs; below T2-1-14	X						X		X		1	
T9-E-15.5	4/29/98	12:55	East end of Tank 9 @ 15.5 ft. bgs.	X						X		X		1	please provide
T9W-17	4/29/98	1:00	west end of Tank 9 @ 17 ft. bgs	X						X		X		1	~~DH~~ Carbon
T8E-16	4/29/98	1:03	east end of Tank 8 @ 16 ft bgs	X						X		X		1	range
T8W-16	4/29/98	1:07	west end of Tank 8 @ 16 ft. bgs	X						X		X		1	
T7-W-16	4/29/98	1:09	west end of Tank 7 @ 16' bgs	X						X		X		1	
T7-E-16	4/29/98	1:10	east end of Tank 7 @ 16' bgs	X						X		X		1	
T6-E-16	4/29/98	1:12	east end of Tank 6 @ 16 ft. bgs	X						X		X		1	
T6-W-16.5	4/29/98	1:14	west end of Tank 6 @ 16.5 ft. bgs	X						X		X		1	

ANALYSIS REQUESTED | SAMPLE TYPE

COPY OF LAB RESULTS MUST BE SENT TO:
Dept. of Environmental Health
Site Assessment and Mitigation Division
P.O. Box 85261
San Diego, CA 92186-5261

1 RELINQUISHED BY	Date	2 RELINQUISHED BY	Date	3 RELINQUISHED BY	Date
[signature]	4/29/98				
Signature Steve Angeli	Time 1:36	Signature	Time	Signature	Time
Printed Name		Printed Name		Printed Name	
Company		Company		Company	
RECEIVED BY [signature]	Date 4/29/98	RECEIVED BY	Date	RECEIVED BY (LAB)	Date
Signature BRET HUTCHINSON	Time 1:36	Signature	Time	Signature	Time
Printed Name MOL		Printed Name		Printed Name	
Company		Company		Company	

9 TOTAL NO. OF CONTAINERS

Sample Conditions
Received On Ice N/A Yes/No
Tape Seal Intact Yes/No

Special Shipment/Handling Or Storage Requirements: None
mobile lab on site

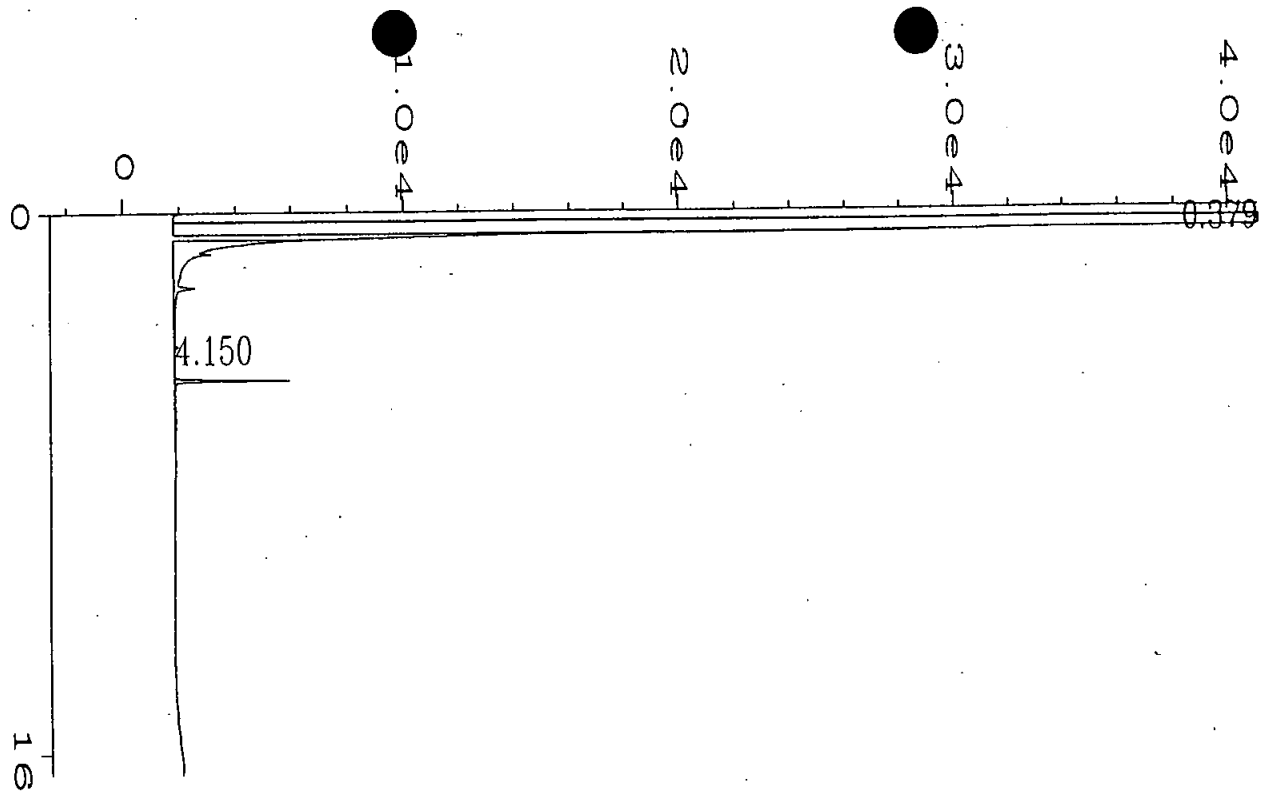
Split Sample Location
none

Site Identification
H# 19469 AT# 4031
SAM Pamela Villa Clay

Distribution: White - Laboratory
Yellow - Contractor/Responsible Party
Pink - SAM

DEH:SAM-999 (8/95) NCR

County of San Diego
Department of Environmental Health



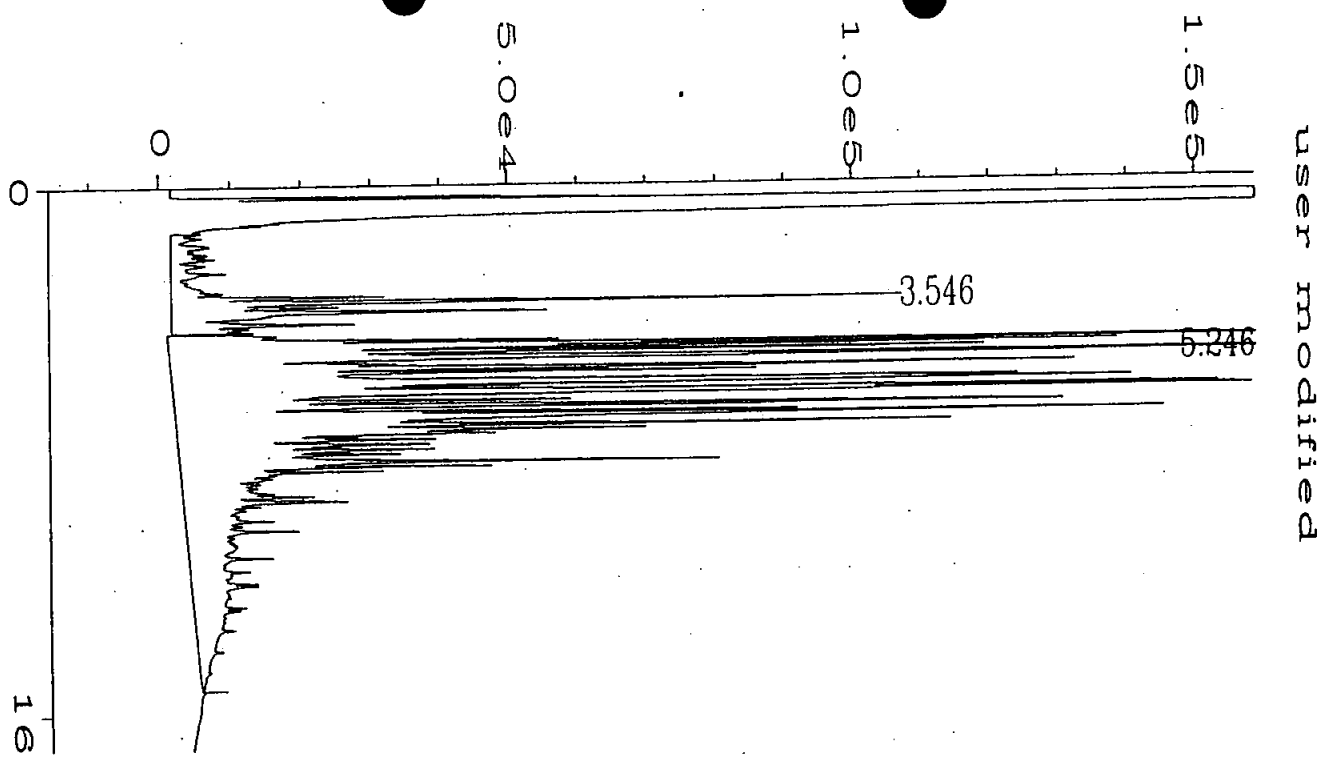
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\042998\030R0101.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 30
Sample Name	: T1-1@15.5'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 01:29 PM	Instrument Method	: TPHF0506.MTH
Report Created on	: 29 Apr 98 01:52 PM	Analysis Method	: TPHREAR.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\042998\030R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
4.150	112159	VB +	0.000	1	~~17~~ nd ~~#47~~	gasoline
12.252	* not found *			1		diesel

Not all calibrated peaks were found



External Standard Report

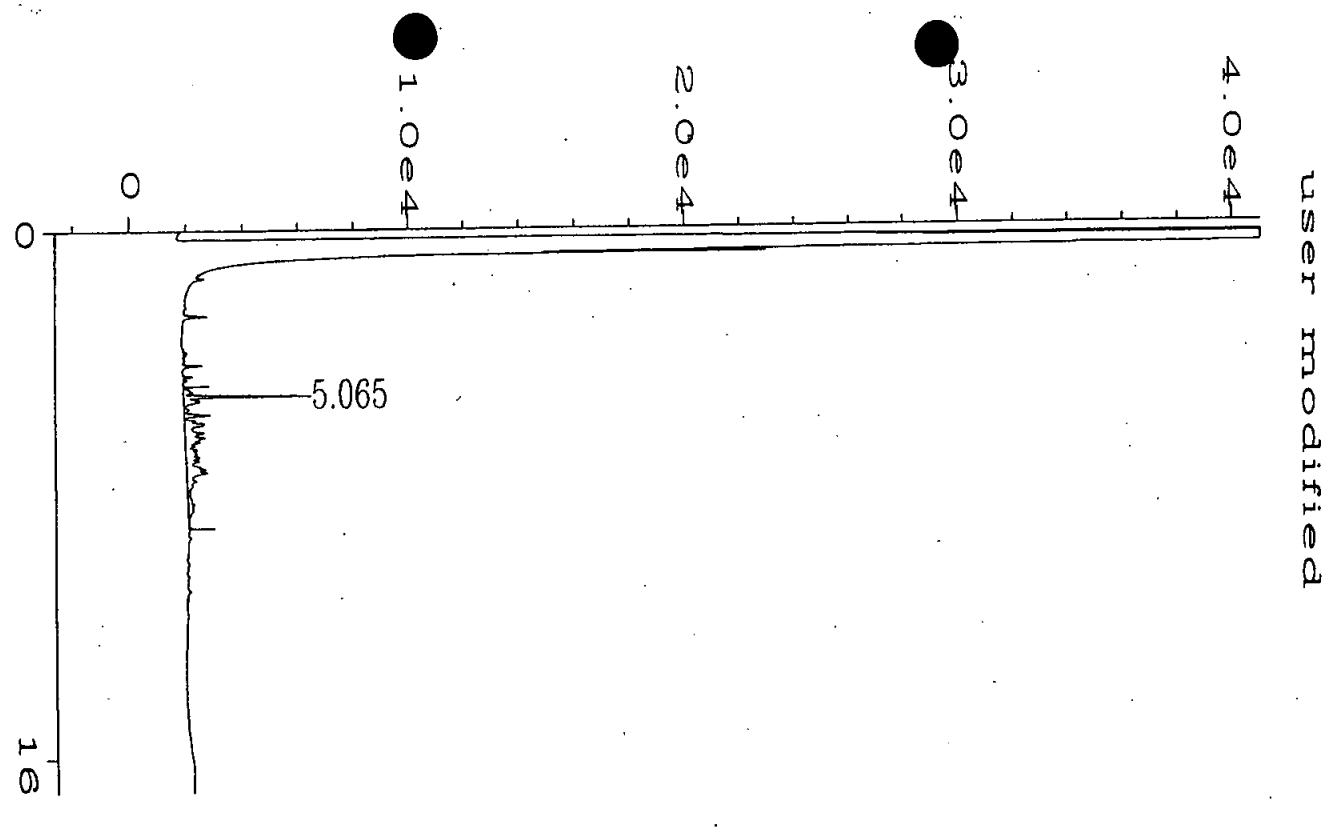
Data File Name : C:\HPCHEM\1\DATA\042998\006F0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T1-2@15'
Run Time Bar Code:
Acquired on : 29 Apr 98 01:53 PM
Report Created on: 29 Apr 98 02:21 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

Page Number : 1
Vial Number : 6
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHF0506.MTH
Analysis Method : TPHF0403.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\042998\006F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
3.546	1715204	MM	0.270	1	401.351	gasoline range
5.246	1.50006E+007	MM	0.569	1	1953.676	diesel range

User Modified



External Standard Report

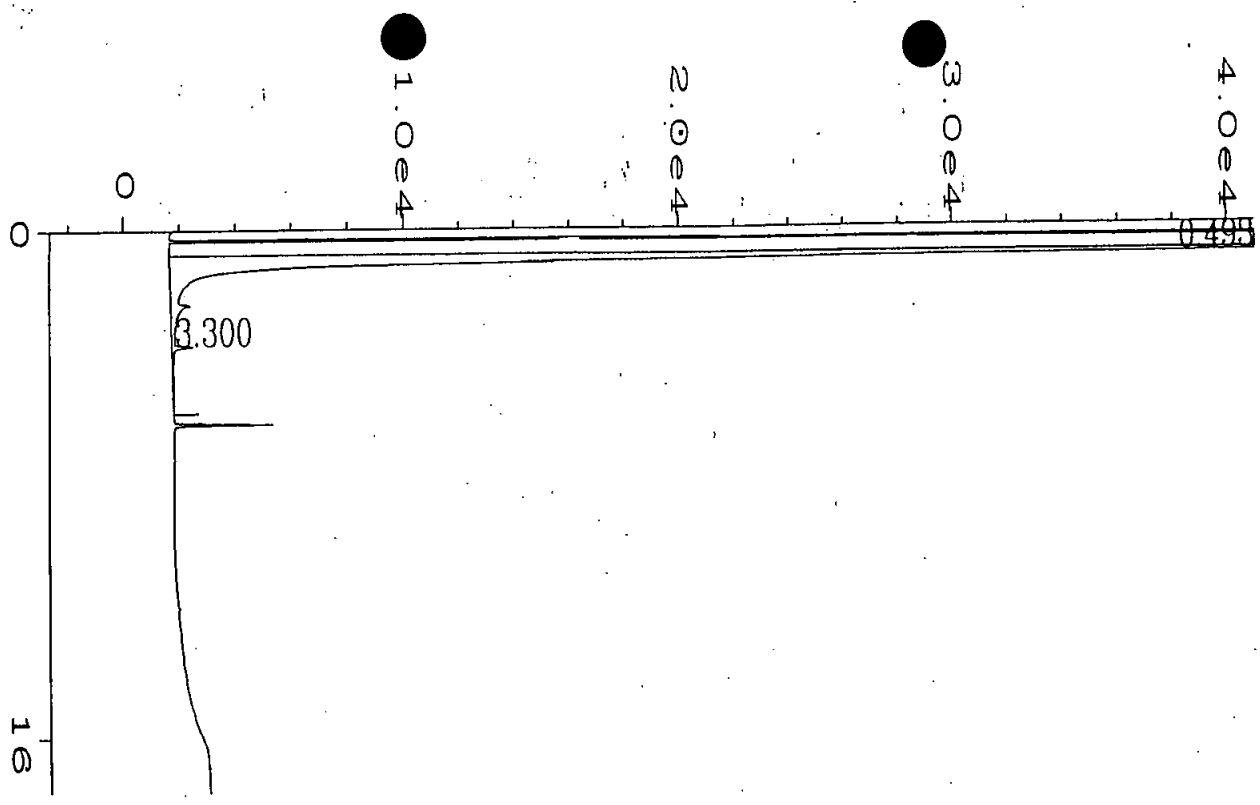
Data File Name	: C:\HPCHEM\1\DATA\042998\031R0101.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 31
Sample Name	: T2-1@14'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 01:53 PM	Instrument Method	: TPHF0506.MTH
Report Created on	: 29 Apr 98 02:22 PM	Analysis Method	: TPHR0403.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\042998\031R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
5.063	* not found *			1		gasoline
5.065	78091	MM	0.285	1	11.214	diesel range

Not all calibrated peaks were found

User Modified



External Standard Report

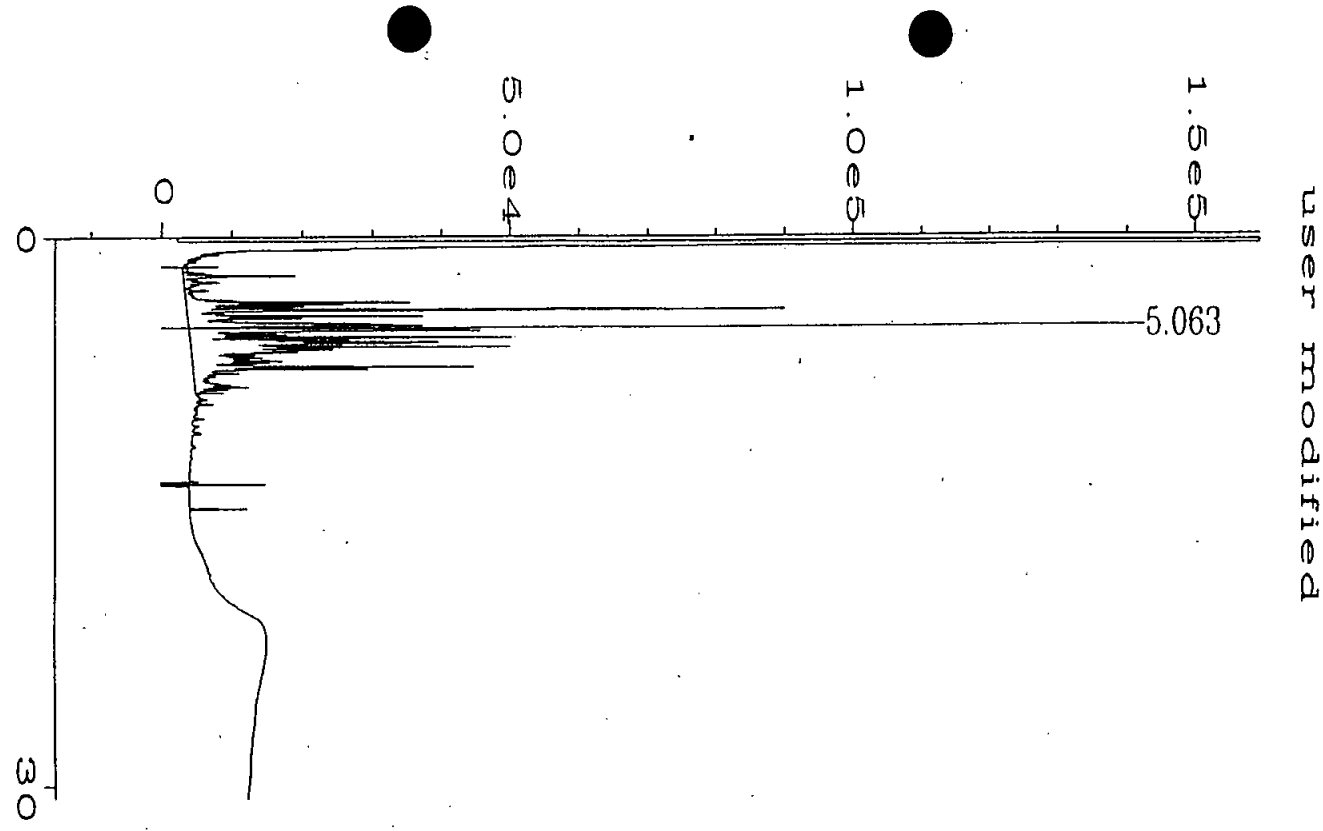
Data File Name : C:\HPCHEM\1\DATA\042998\007F0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T2-2@16'
Run Time Bar Code:
Acquired on : 29 Apr 98 02:18 PM
Report Created on: 29 Apr 98 02:38 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

Page Number : 1
Vial Number : 7
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHF0506.MTH
Analysis Method : TPHF0506.MTH
Sample Amount : 0
ISTD Amount :

Fig. 1 in C:\HPCHEM\1\DATA\042998\007F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
4.150	* not found *			1		gasoline
12.252	* not found *			1		diesel

Not all calibrated peaks were found



External Standard Report

Data File Name : C:\HPCHEM\1\DATA\042998\029R0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T4@10'
Run Time Bar Code:
Acquired on : 29 Apr 98 12:51 PM
Report Created on: 29 Apr 98 01:36 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

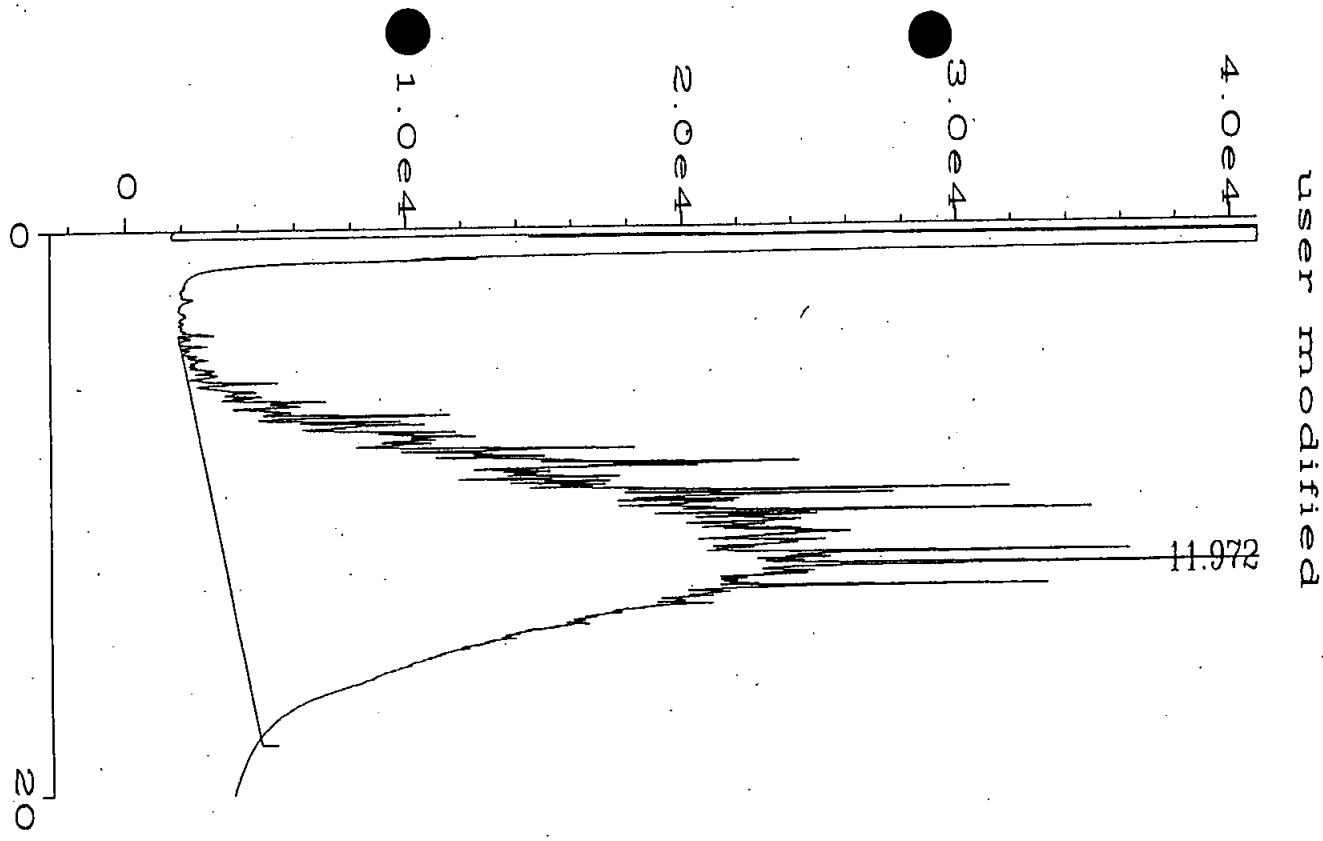
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Vial Number : 29
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHEXT.MTH
Analysis Method : TPHR0403.MTH
Sample Amount : 0
ISTD Amount :

Sig. 2 in C:\HPCHEM\1\DATA\042998\029R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
5.063	3600913	MM	0.432	1	820.463	gasoline range
10.767	* not found *			1		diesel

Not all calibrated peaks were found

User Modified



External Standard Report

Data File Name : C:\HPCHEM\1\DATA\042998\011F0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T6-E-16'
Run Time Bar Code:
Acquired on : 29 Apr 98 03:54 PM
Report Created on: 29 Apr 98 04:20 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

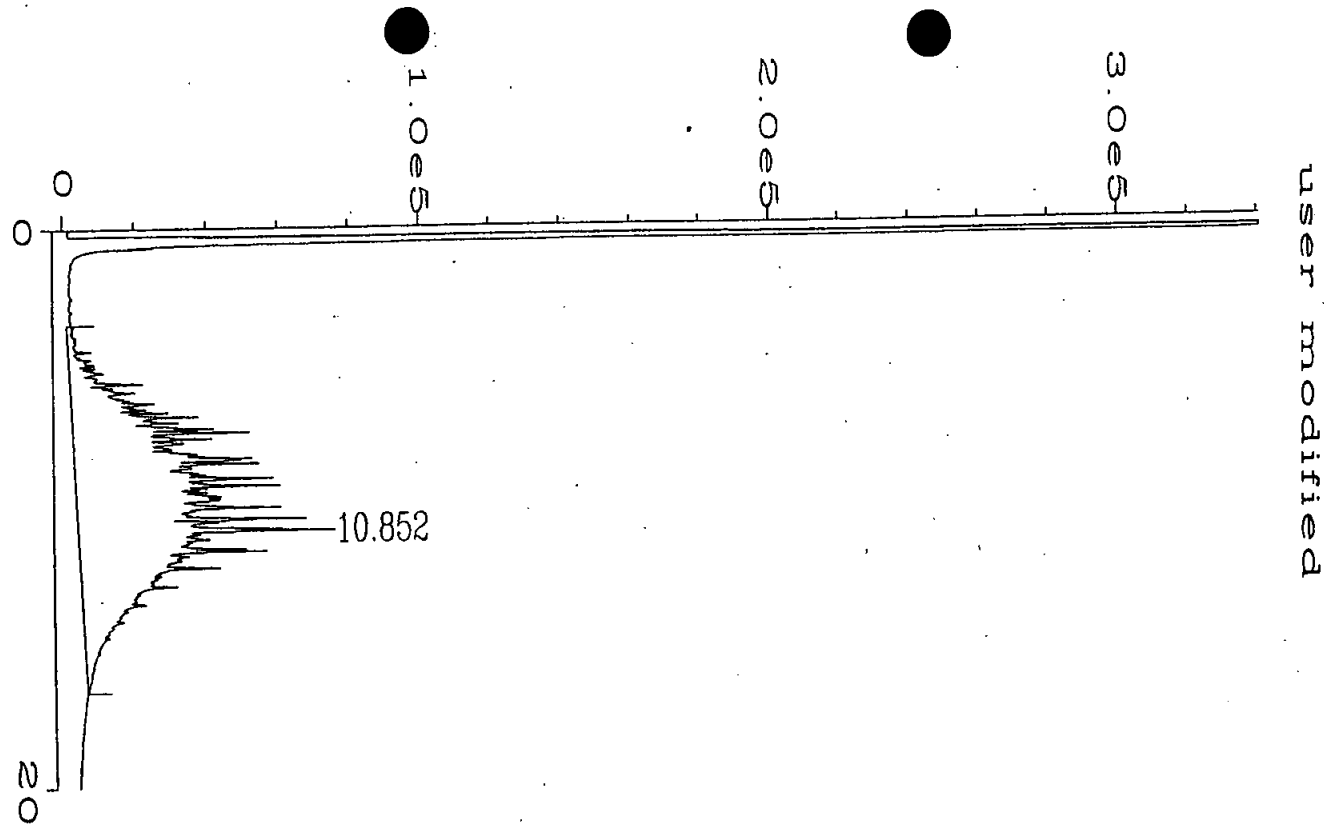
Page Number : 1
Vial Number : 11
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHF0506.MTH
Analysis Method : TPHF0403.MTH
Sample Amount : 0
ISTD Amount :

Sig. 1 in C:\HPCHEM\1\DATA\042998\011F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
3.546	* not found *			1		gasoline
11.972	8055719	MM	3.190	1	1086.758	diesel

Not all calibrated peaks were found

User Modified



External Standard Report

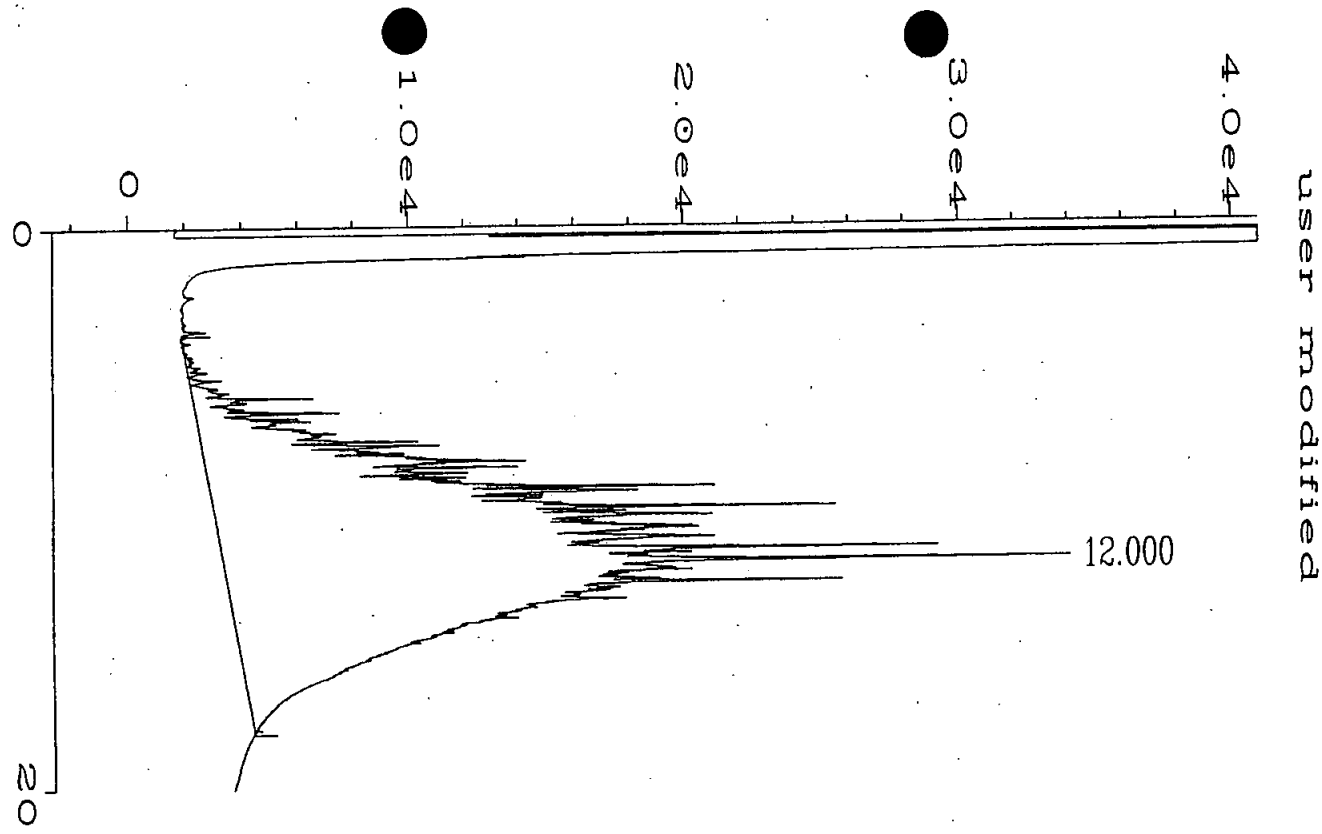
Data File Name	: C:\HPCHEM\1\DATA\042998\035R0101.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 35
Sample Name	: T6-W-16.5'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 03:28 PM	Instrument Method	: TPHF0506.MTH
Report Created on	: 29 Apr 98 03:59 PM	Analysis Method	: TPHR0403.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\042998\035R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
4.094	* not found *			1		gasoline
10.852	1.45827E+007	MM	3.377	1	1818.737	diesel

Not all calibrated peaks were found

User Modified



External Standard Report

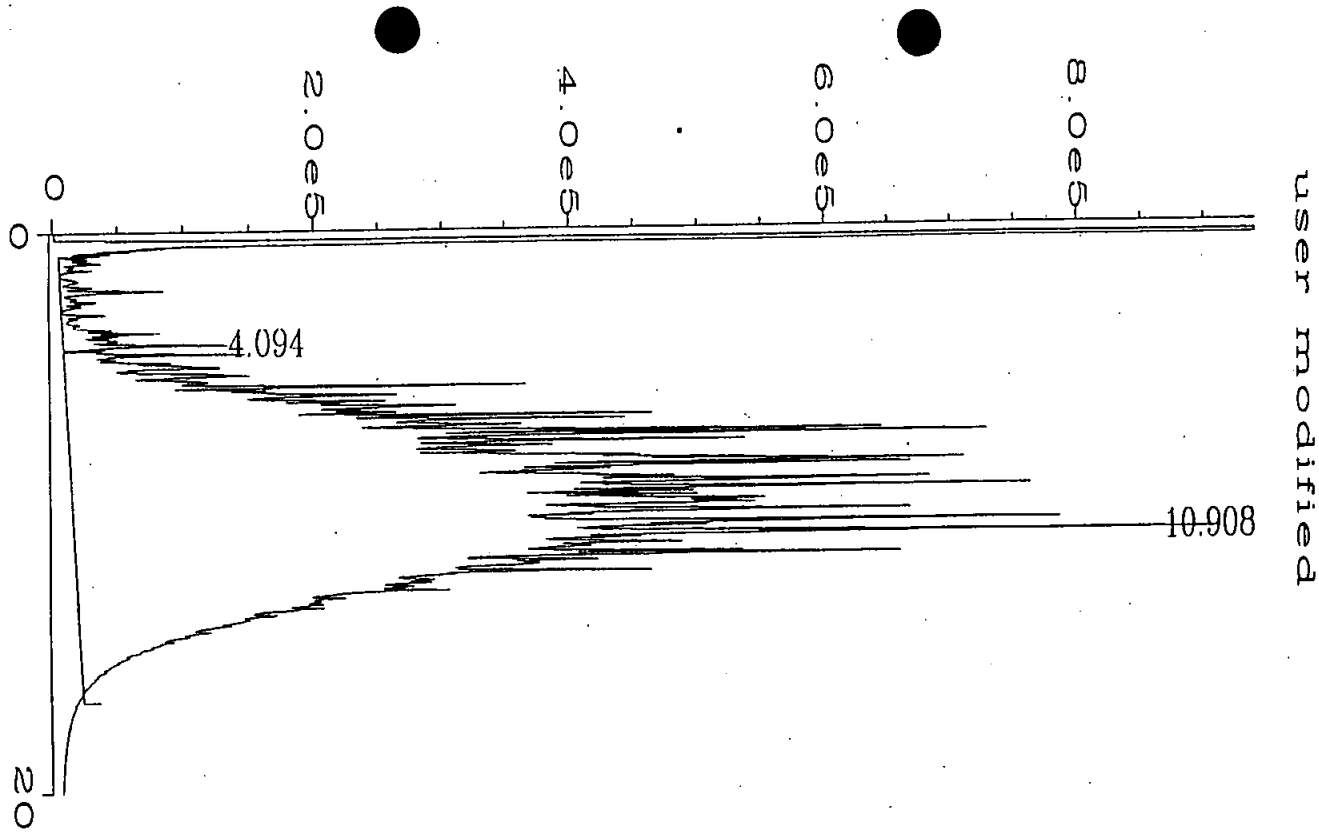
Data File Name	: C:\HPCHEM\1\DATA\042998\010F0101.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 10
Sample Name	: T7-E-16'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 03:28 PM	Instrument Method	: TPHF0506.MTH
Report Created on	: 29 Apr 98 04:00 PM	Analysis Method	: TPHF0403.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\042998\010F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
3.546	* not found *			1		gasoline
12.000	5749034	MM	3.070	1	798.819	diesel

Not all calibrated peaks were found

User Modified



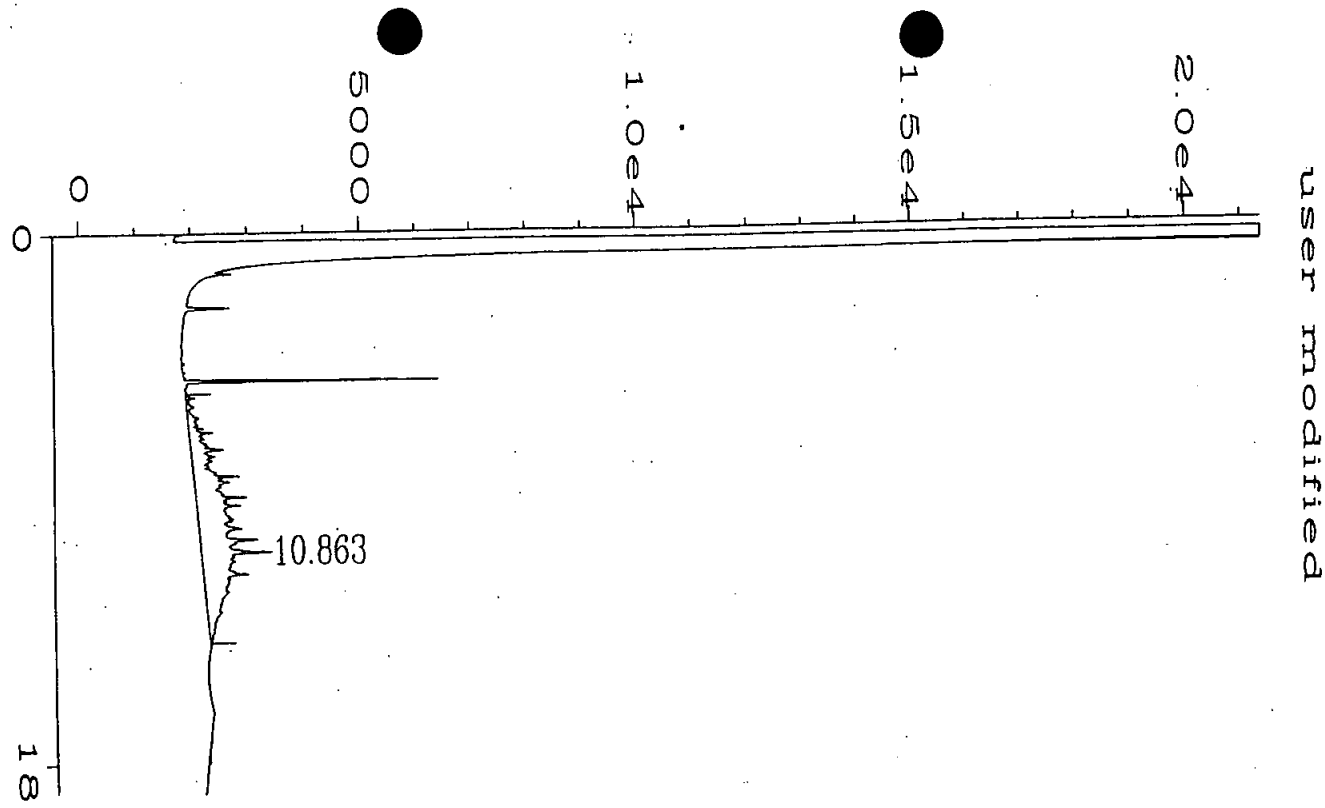
External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\042998\034R0101.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 34
Sample Name	: T7-W-16'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 03:03 PM	Instrument Method	: TPHF0506.MTH
Report Created on	: 29 Apr 98 03:35 PM	Analysis Method	: TPHR0403.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\042998\034R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
4.094	3673335	MM	0.488	1	nd ~~837.100~~	~~gasoline~~
10.908	1.83927E+008	MM	3.412	1	22916.18	diesel

User Modified



External Standard Report

Data File Name : C:\HPCHEM\1\DATA\042998\033R0101.D
Operator : Bret Hutchinson
Instrument : HP - 1
Sample Name : T8-E-16'
Run Time Bar Code:
Acquired on : 29 Apr 98 02:39 PM
Report Created on: 29 Apr 98 03:04 PM
Last Recalib on : 05 MAR 93 04:05 PM
Multiplier : 1

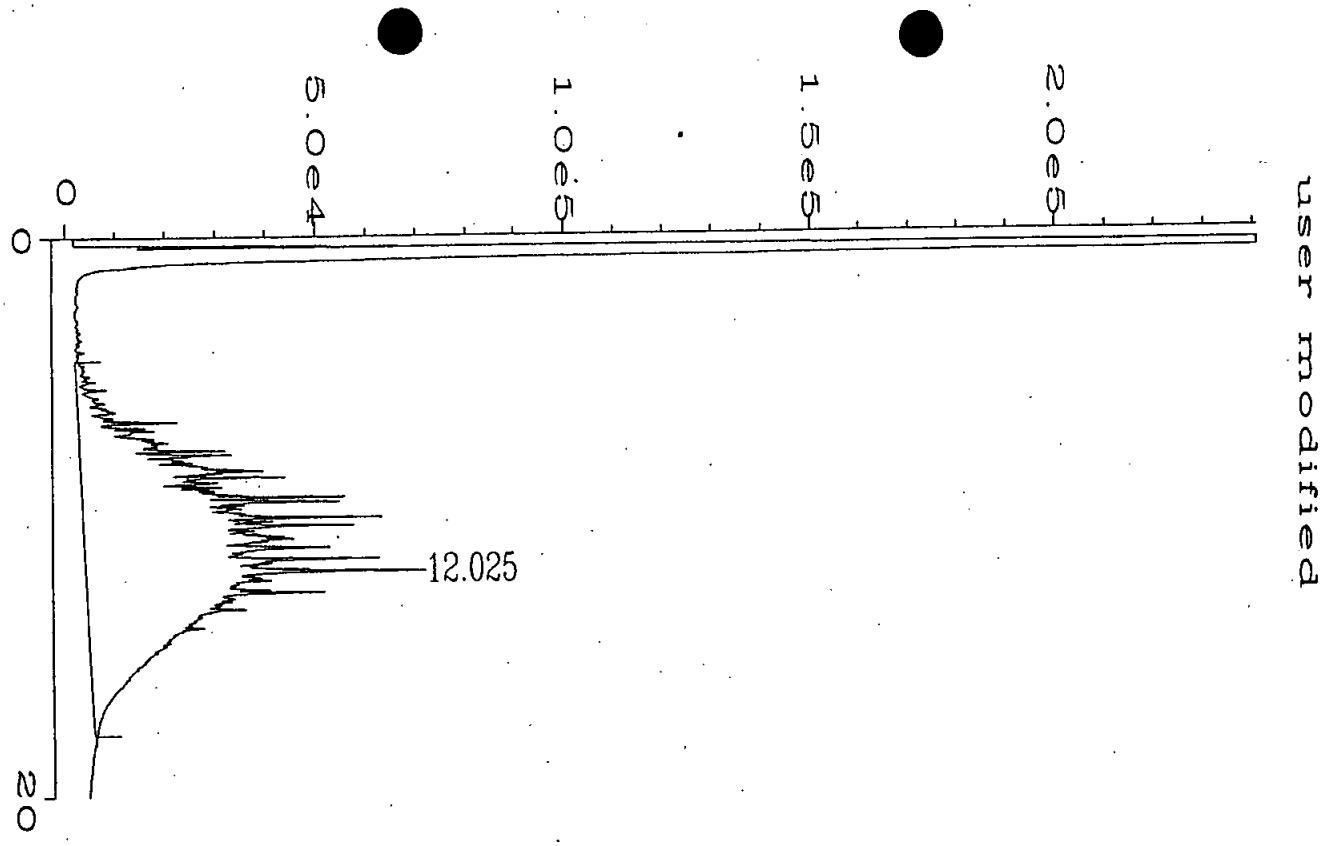
Page Number : 1
Vial Number : 33
Injection Number : 1
Sequence Line : 1
Instrument Method: TPHF0506.MTH
Analysis Method : TPHR0403.MTH
Sample Amount : 0
ISTD Amount :

Sig. 2 in C:\HPCHEM\1\DATA\042998\033R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
5.063	* not found *			1		gasoline
10.863	176617	MM	2.333	1	25.362	diesel

Not all calibrated peaks were found

User Modified



External Standard Report

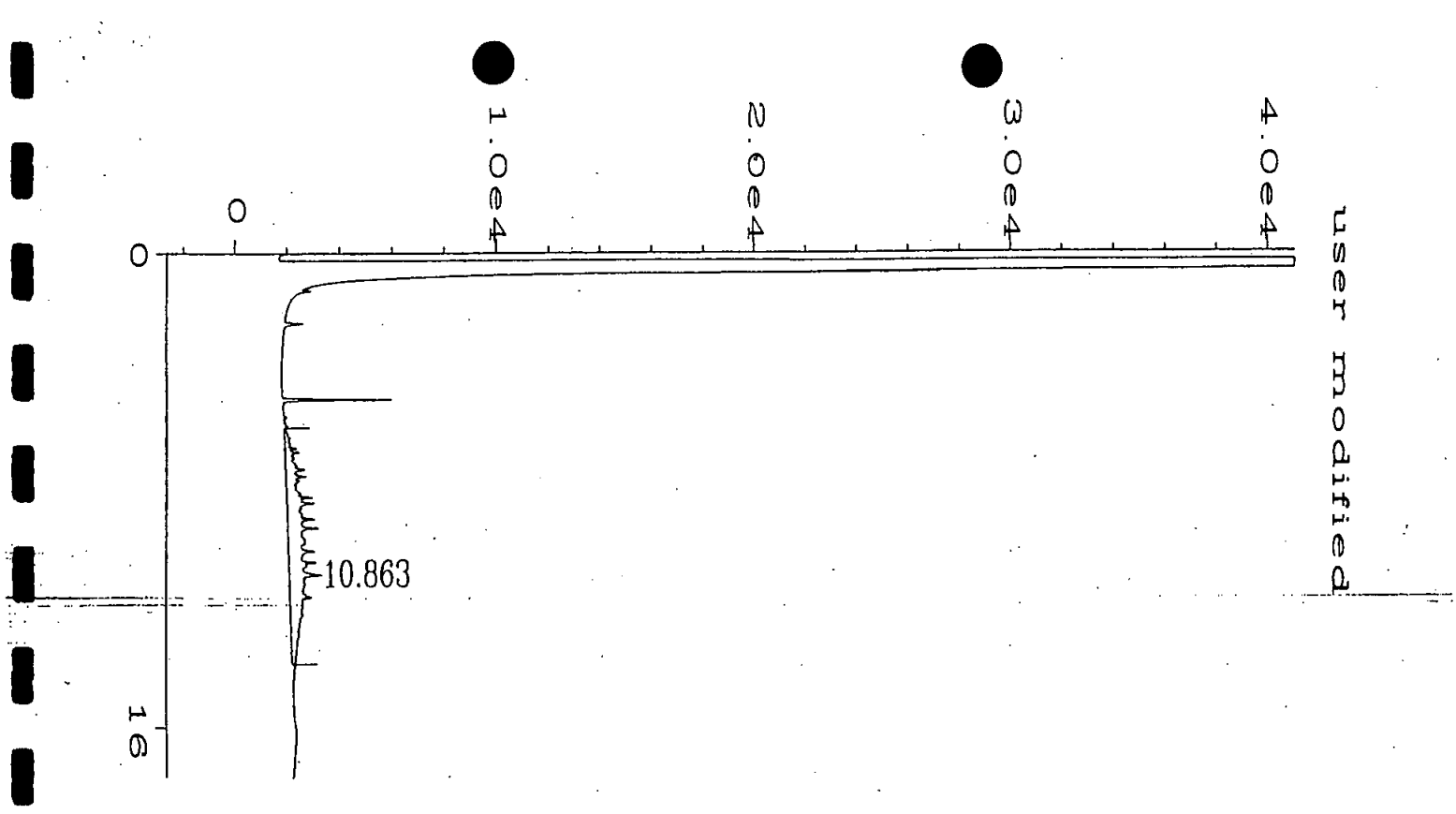
Data File Name	: C:\HPCHEM\1\DATA\042998\009F0101.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 9
Sample Name	: T8-W-16'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 03:03 PM	Instrument Method	: TPHF0506.MTH
Report Created on	: 29 Apr 98 03:34 PM	Analysis Method	: TPHF0403.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Fig. 1 in C:\HPCHEM\1\DATA\042998\009F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
3.546	* not found *			1		gasoline
12.025	1.42497E+007	MM	3.490	1	1859.936	diesel

Not all calibrated peaks were found

User Modified



External Standard Report

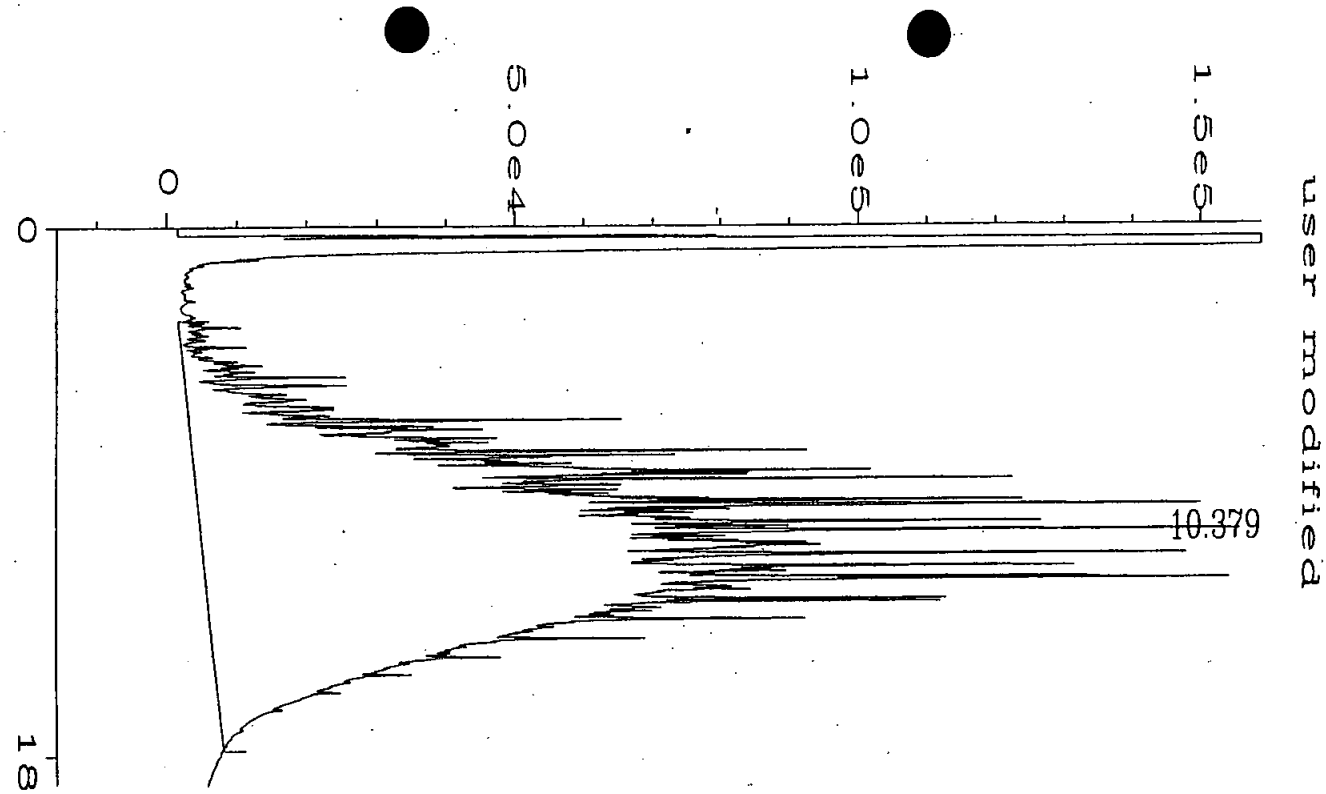
Data File Name	: C:\HPCHEM\1\DATA\042998\032R0101.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 32
Sample Name	: T9-E-15.5'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 02:18 PM	Instrument Method	: TPHF0506.MTH
Report Created on	: 29 Apr 98 02:40 PM	Analysis Method	: TPHR0403.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 2 in C:\HPCHEM\1\DATA\042998\032R0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
5.063	* not found *			1		gasoline
10.863	206220	MM	2.805	1	29.613	diesel

Not all calibrated peaks were found

User Modified



External Standard Report

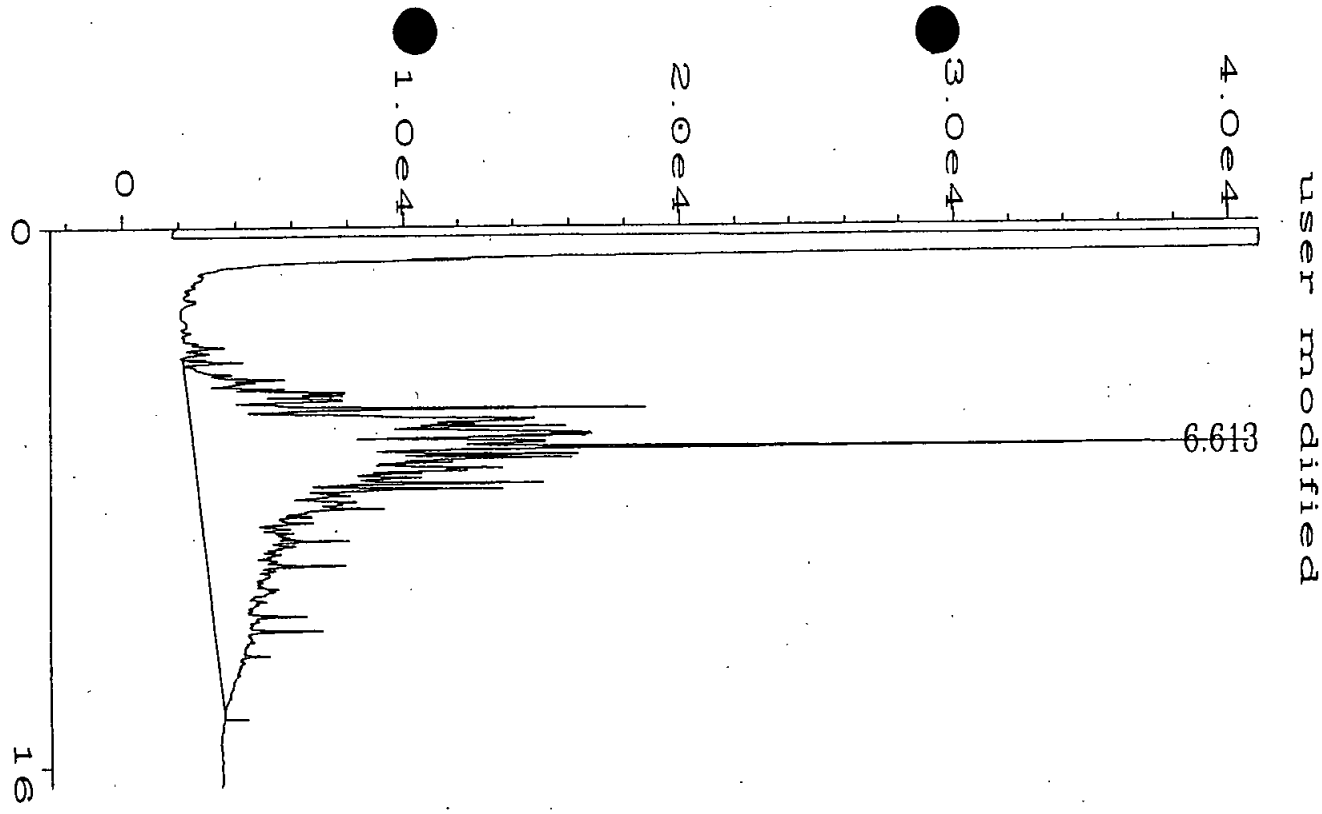
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Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 8
Sample Name	: T9-W-17'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 02:39 PM	Instrument Method	: TPHF0506.MTH
Report Created on	: 29 Apr 98 03:04 PM	Analysis Method	: TPHF0403.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\042998\008F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
3.546	* not found *			1		gasoline
10.379	3.2408E+007	MM	3.575	1	4166.250	diesel

Not all calibrated peaks were found

User Modified



External Standard Report

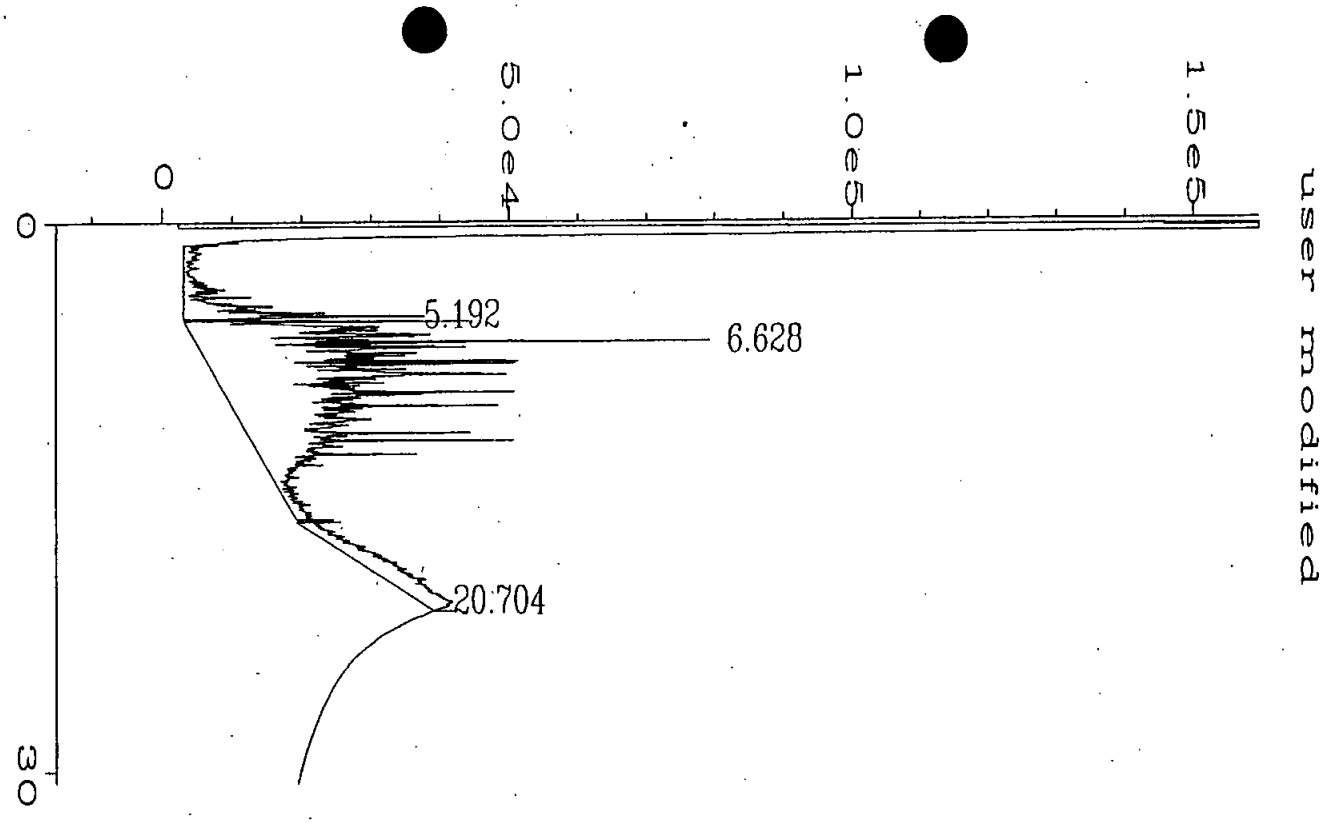
Data File Name	: C:\HPCHEM\1\DATA\042998\005F0201.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 5
Sample Name	: P1@4.0'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 2
Acquired on	: 29 Apr 98 01:29 PM	Instrument Method	: TPHF0506.MTH
Report Created on	: 29 Apr 98 01:54 PM	Analysis Method	: TPHF0403.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\042998\005F0201.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
4.150	* not found *			1		gasoline
6.613	2332299	MM	1.014	1	372.316	diesel range

Not all calibrated peaks were found

User Modified



External Standard Report

Data File Name	: C:\HPCHEM\1\DATA\042998\004F0101.D		
Operator	: Bret Hutchinson	Page Number	: 1
Instrument	: HP - 1	Vial Number	: 4
Sample Name	: T3@9.5'	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 1
Acquired on	: 29 Apr 98 12:51 PM	Instrument Method	: TPHEXT.MTH
Report Created on	: 30 Apr 98 12:54 PM	Analysis Method	: TPHF0403.MTH
Last Recalib on	: 05 MAR 93 04:05 PM	Sample Amount	: 0
Multiplier	: 1	ISTD Amount	:

Sig. 1 in C:\HPCHEM\1\DATA\042998\004F0101.D

Ret Time	Area	Type	Width	Ref#	ng/ul	Name
5.192	942932	MM	0.451	1	219.795	gasoline range
6.628	8590035	MM	1.858	1	1153.455	diesel range
20.704	1024289	mm	3.572	1	190	C_{25}-C_{44}

User Modified

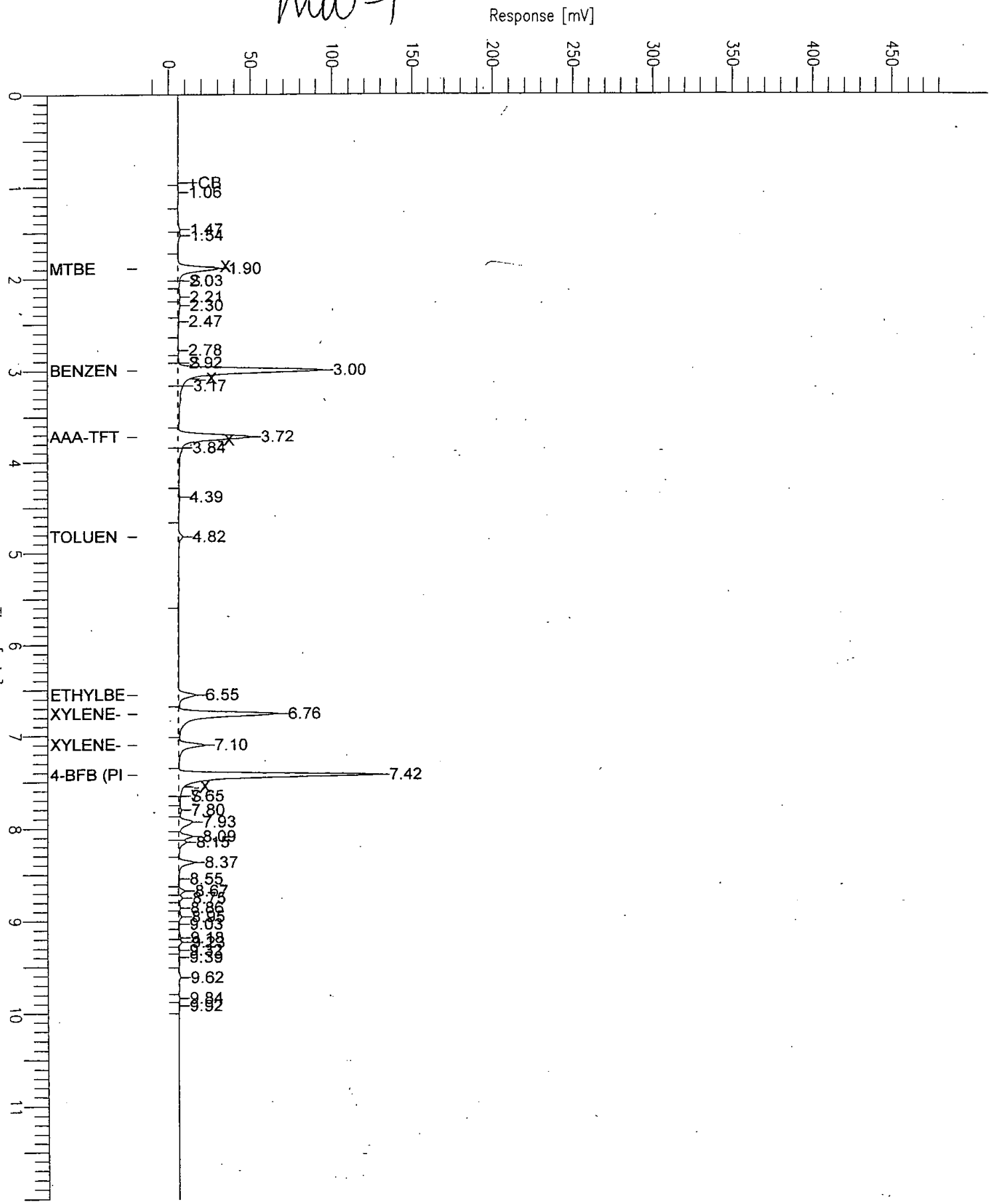
Monitoring Well Groundwater and MW8 Soil

Chromatogram

Sample Name : CLD0370-01
FileName : H:\DATA\GC5\E02A004.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: W-0.5ML Page 1 of 1
Date : 05/02/2002 09:23
Time of Injection: 05/02/2002 09:04
Low Point : -19.09 mV High Point : 480.91 mV
Plot Scale: 500.0 mV

MW-1

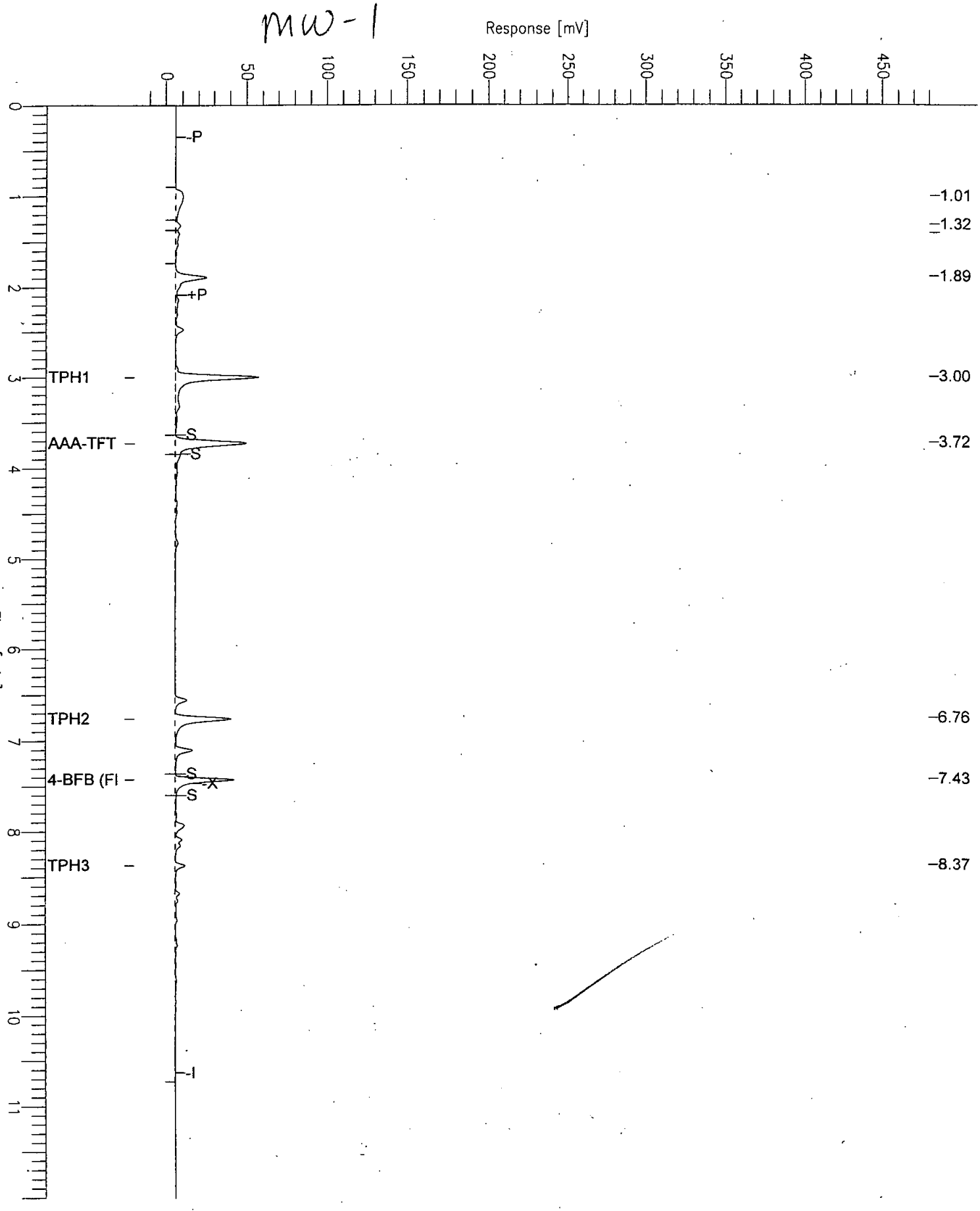


Chromatogram

Sample Name : CLD0370-01
FileName : H:\DATA\GC5\E02B004.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: W-0.5ML Page 1 of 1
Date : 05/02/2002 09:25
Time of Injection: 05/02/2002 09:04
Low Point : -19.25 mV High Point : 480.75 mV
Plot Scale: 500.0 mV

MW-1

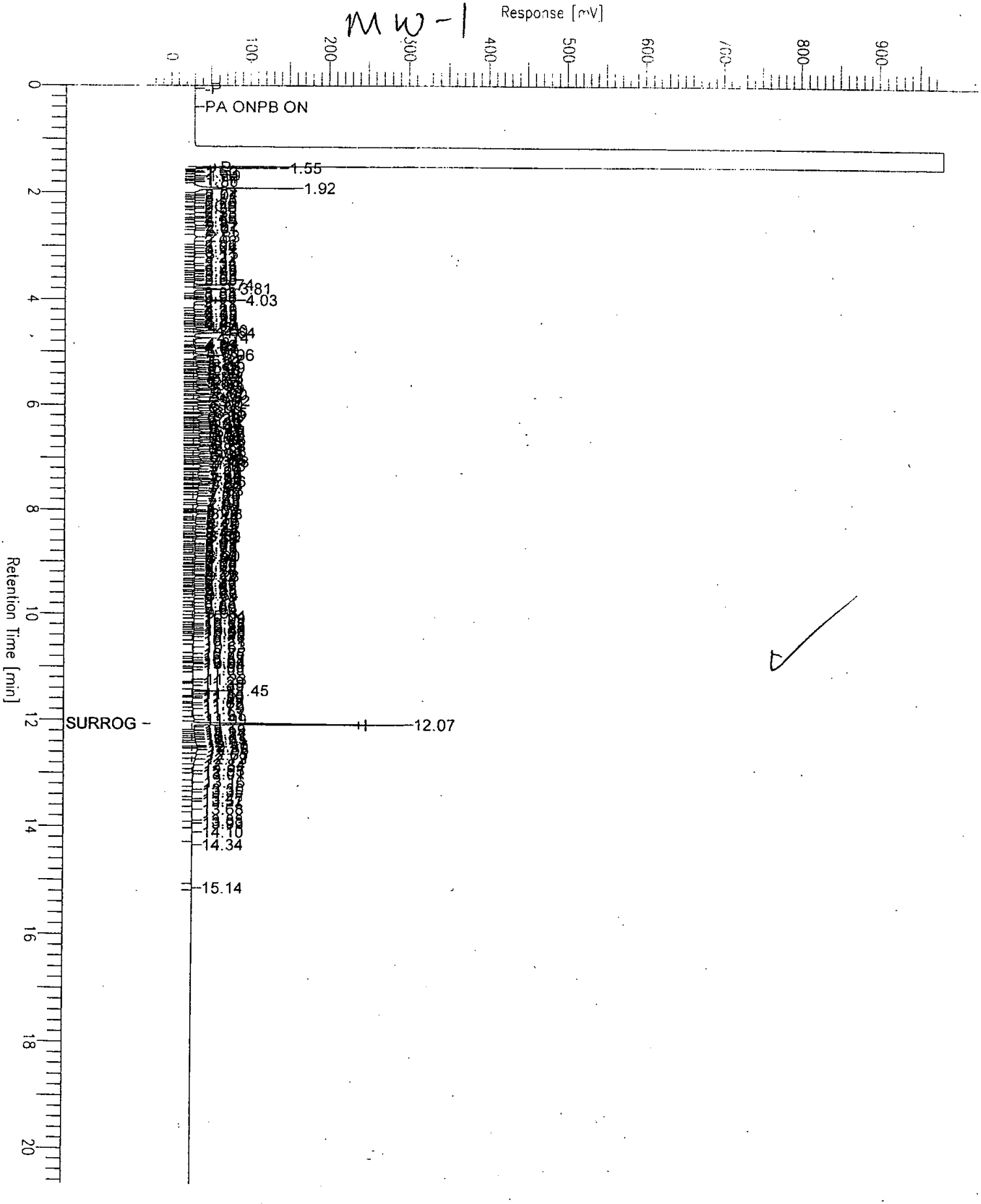


TPH Diesel (LUFT) Chromatogram

Sample Name : CLD0370-01
FileName : H:\DATA\GC2\C03A008.raw
Method : A14C840G
Start Time : 0.00 min End Time : 20.66 min
Scale Factor: -1.0 Plot Offset: -21 mV

Sample #: C2E0205 Page 1 of 1
Date : 5/3/02 15:36
Time of Injection: 5/3/02 14:57
Low Point : -20.58 mV High Point : 979.42 mV
Plot Scale: 1000.0 mV

MW-1

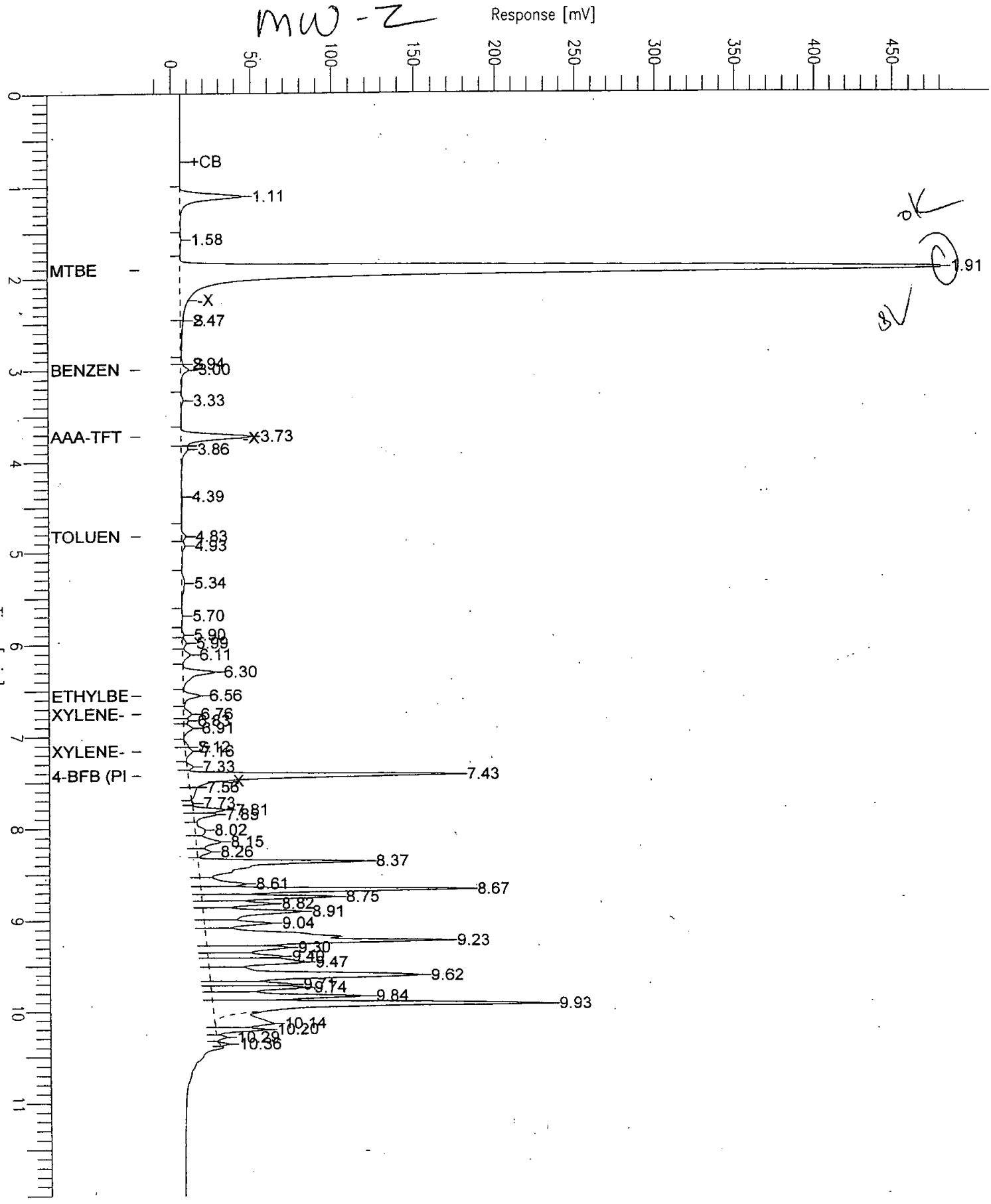


Chromatogram

Sample Name : CLD0370-02
FileName : H:\DATA\GC5\E02A024.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: W-1.0ML Page 1 of 1
Date : 05/03/2002 13:10
Time of Injection: 05/02/2002 17:32
Low Point : -19.08 mV High Point : 480.92 mV
Plot Scale: 500.0 mV

MW-2

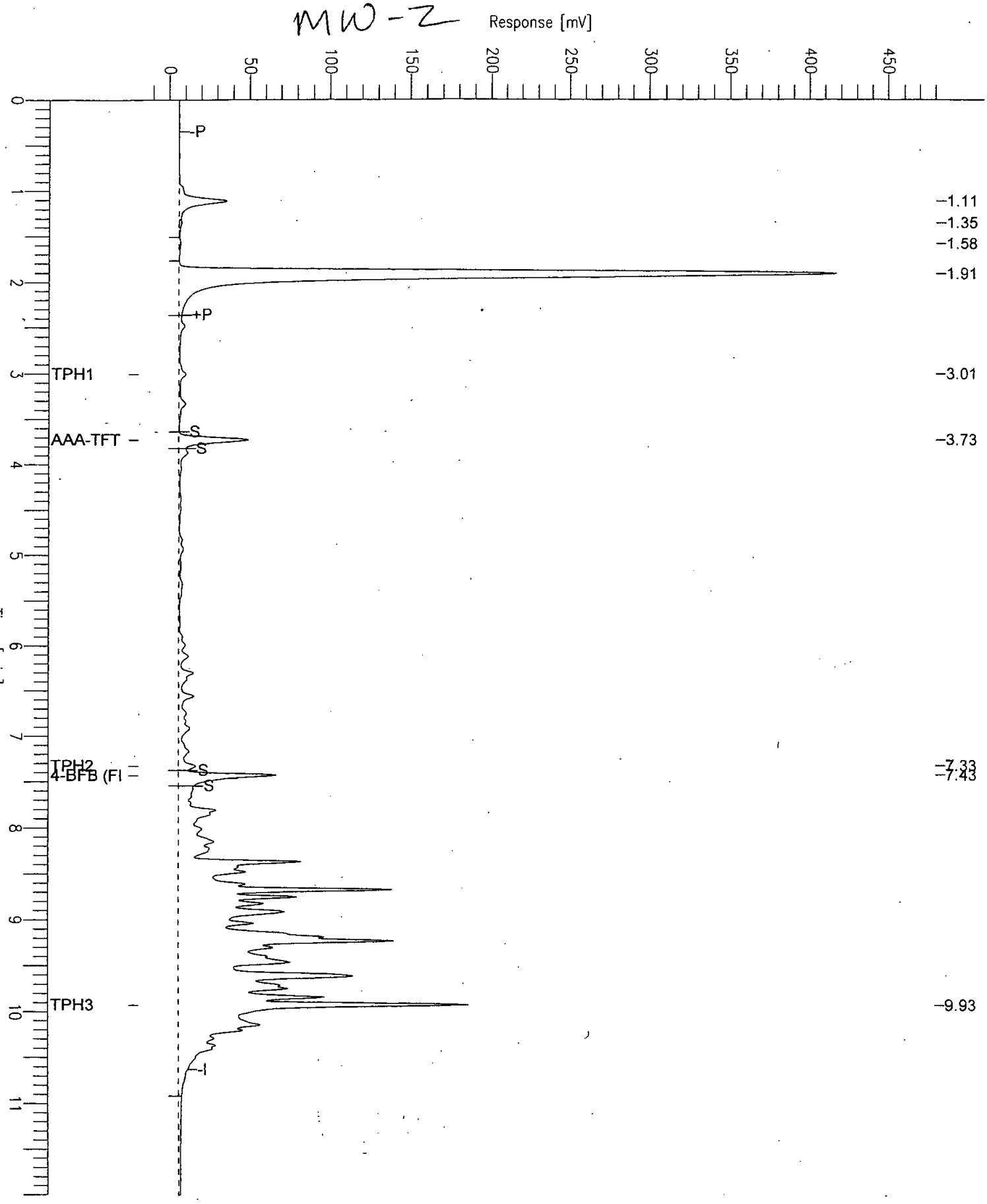


Chromatogram

Sample Name : CLD0370-02
FileName : H:\DATA\GC5\E02B024.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: W-1.0ML Page 1 of 1
Date : 05/03/2002 13:15
Time of Injection: 05/02/2002 17:32
Low Point : -19.24 mV High Point : 480.77 mV
Plot Scale: 500.0 mV

MW-2

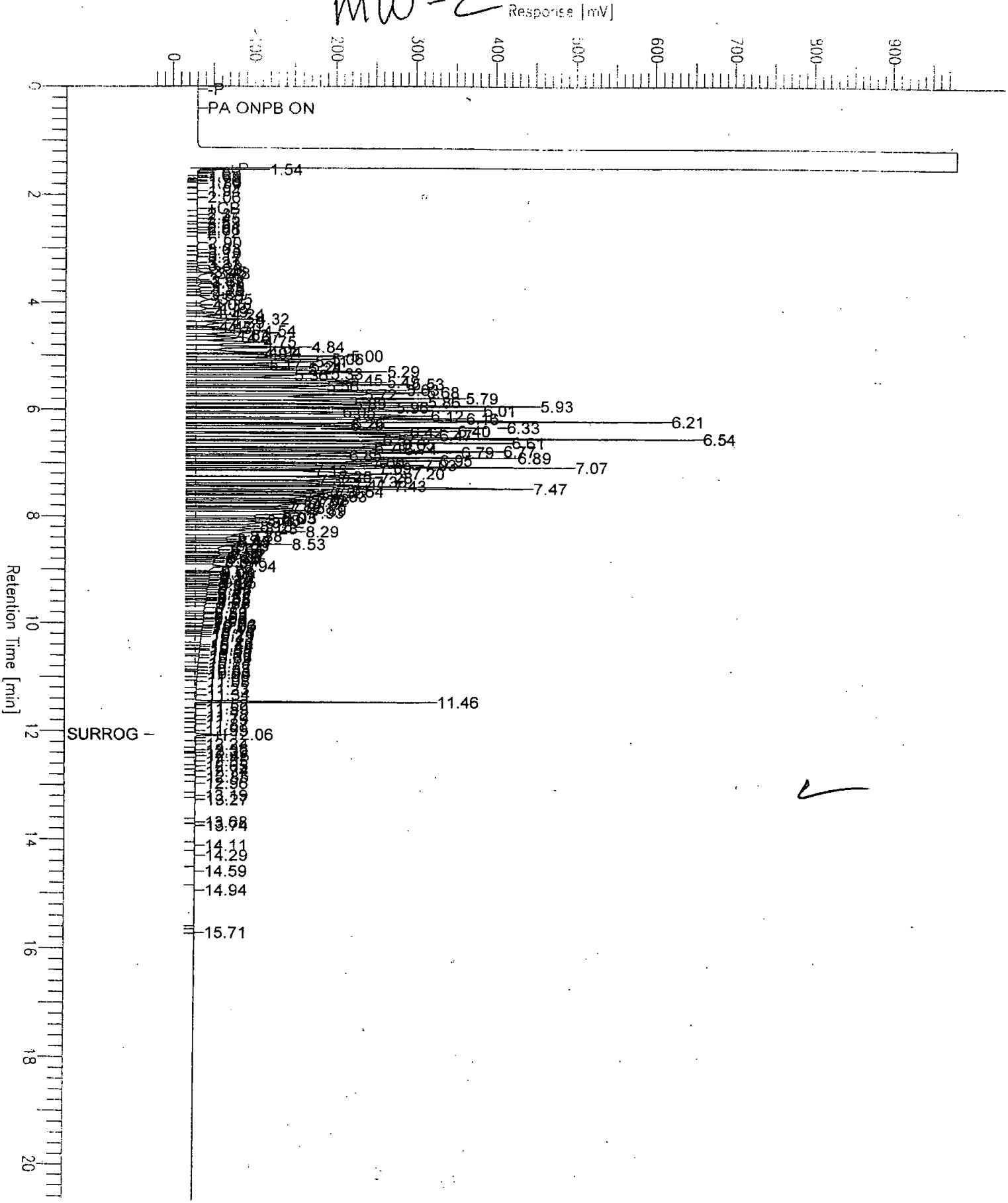


TPH Diesel (LUFT) Chromatogram

Sample Name : CLD0370-02
FileName : H:\DATA\GC2\E03A011.raw
Method : A14C840G
Start Time : 0.00 min End Time : 20.66 min
Scale Factor: -1.0 Plot Offset: -20 mV

Sample #: C2E0205 Page 1 of 1
Date : 5/3/02 16:54
Time of Injection: 5/3/02 16:14
Low Point : -20.35 mV High Point : 975.65 mV
Plot Scale: 1000.0 mV

MW-2

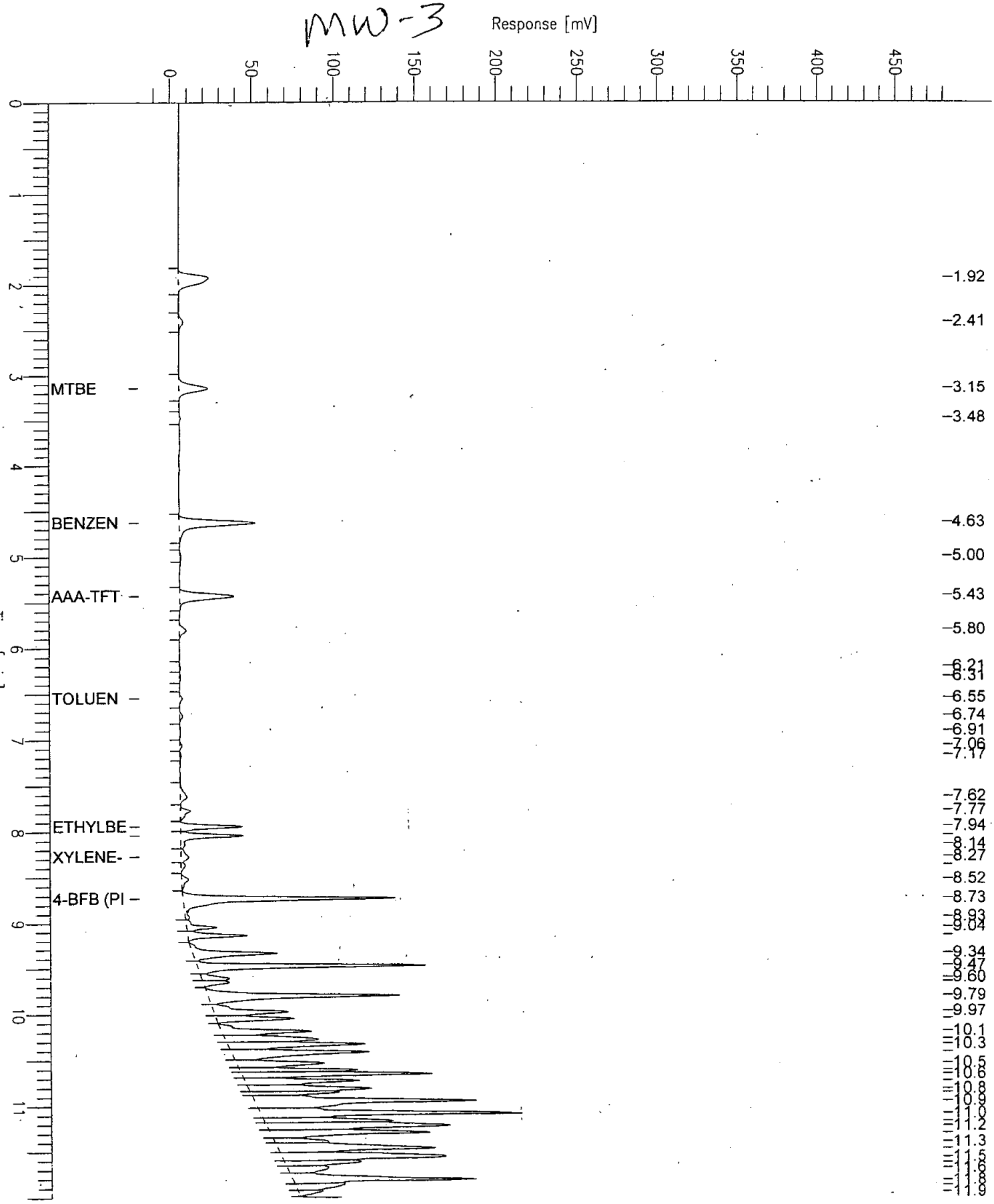


Chromatogram

Sample Name : CLD0370-03
FileName : H:\DATA\GC3\E09A018.raw
Method : T050502
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: 1.0mL Page 1 of 1
Date : 5/10/02 06:38 AM
Time of Injection: 5/9/02 02:27 PM
Low Point : -19.40 mV High Point : 480.60 mV
Plot Scale: 500.0 mV

MW-3

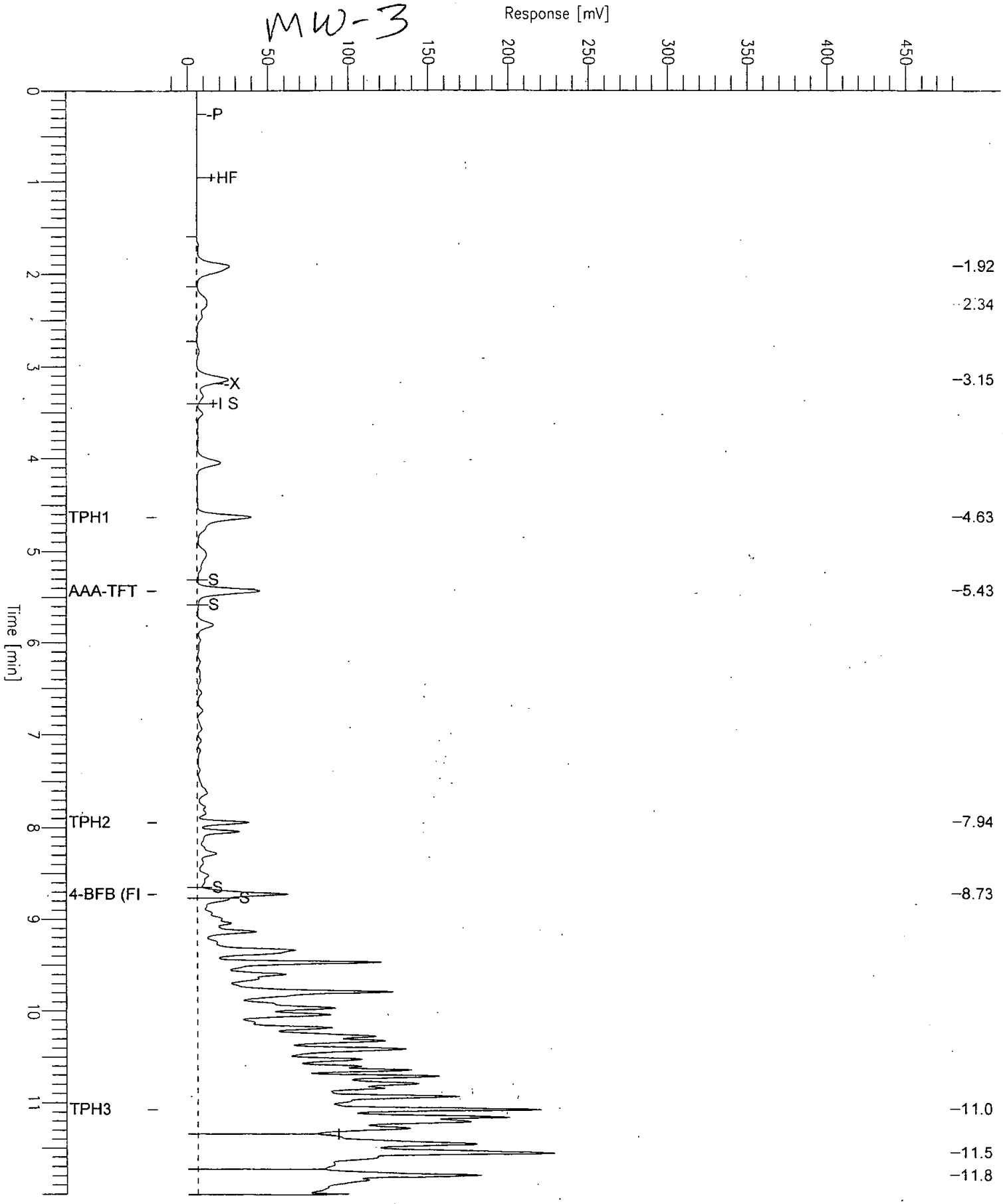


Chromatogram

Sample Name : CLD0370-03
FileName : H:\DATA\GC3\E09B018.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: 1.0mL Page 1 of 1
Date : 05/31/2002 10:29
Time of Injection: 05/09/2002 14:27
Low Point : -19.23 mV High Point : 480.77 mV
Plot Scale: 500.0 mV

MW-3

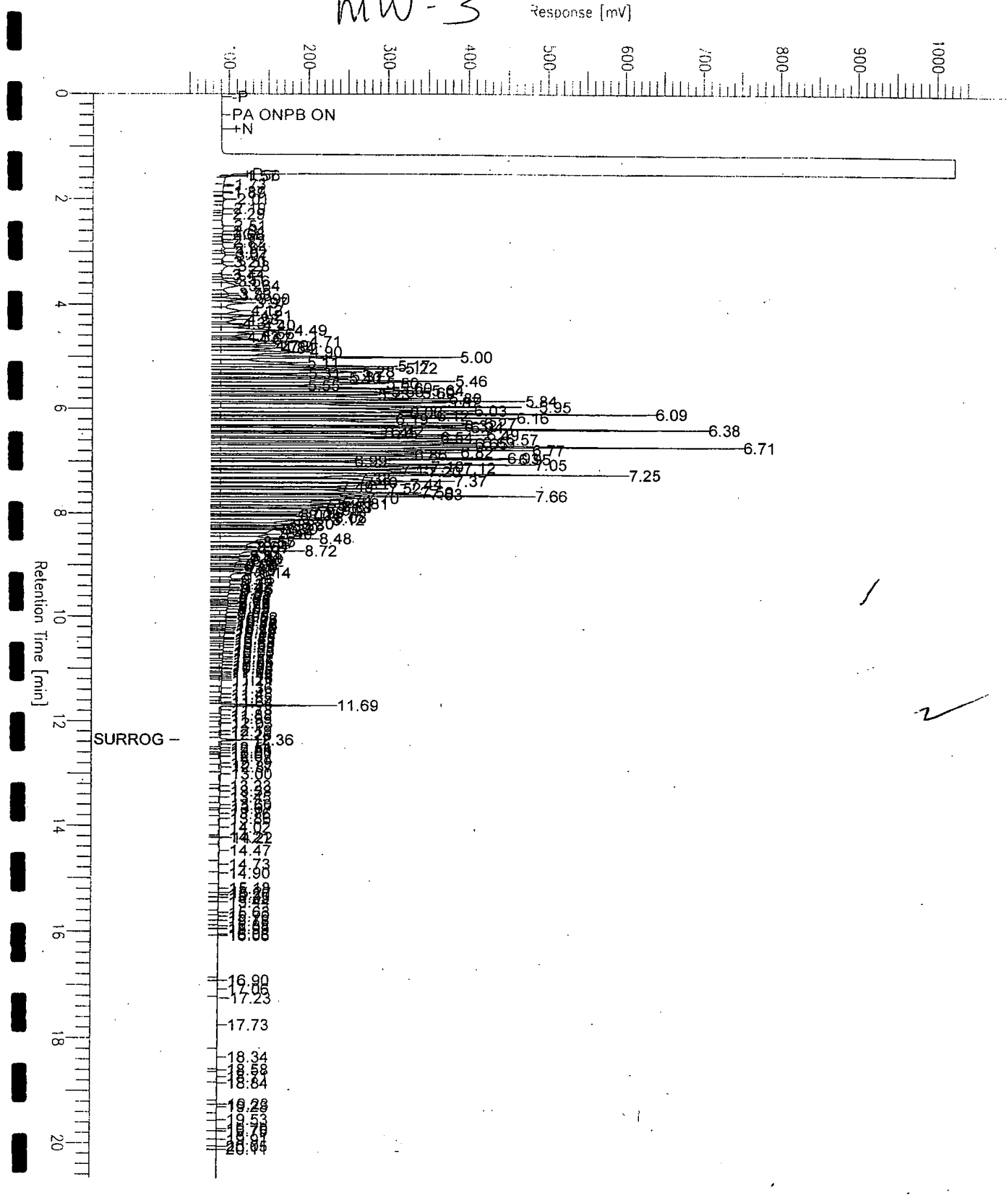


TPH Diesel (LUFT) Chromatogram

Sample Name : CLD0370-03
FileName : H:\DATA\GC2\E03B01J.raw
Method : A14C840G
Start Time : 0.00 min End Time : 20.66 min
Scale Factor: -1.0 Plot Offset: 41 mV

Sample #: C2E0205 Page 1 of 1
Date : 5/3/02 17:29
Time of Injection: 5/3/02 16:11
Low Point : 40.60 mV High Point : 1040.60 mV
Plot Scale: 1000.0 mV

MW-3

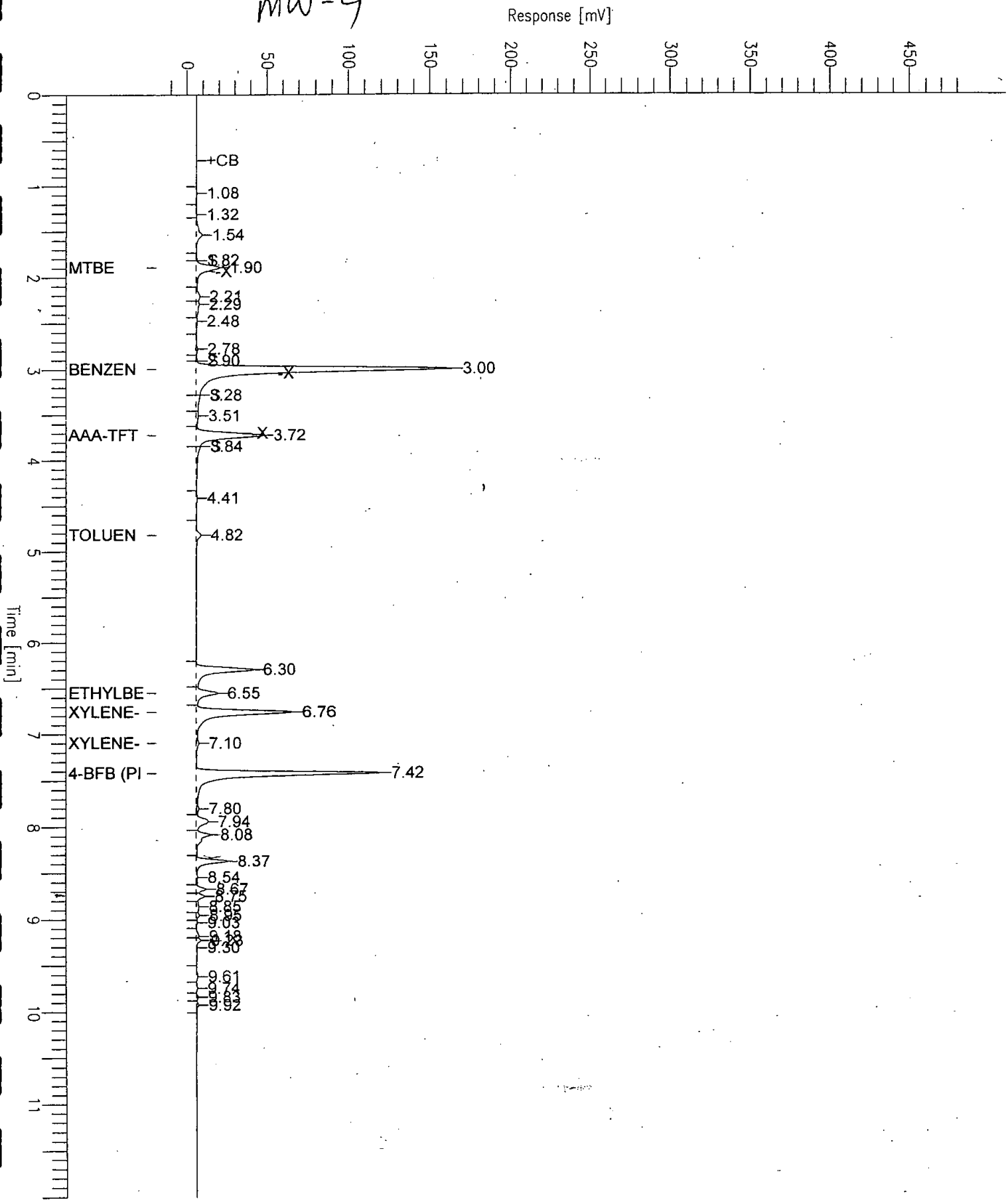


Chromatogram

Sample Name : CLD0373-01
FileName : H:\DATA\GC5\E02A009.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: W-50UL Page 1 of 1
Date : 05/02/2002 15:18
Time of Injection: 05/02/2002 11:00
Low Point : -19.13 mV High Point : 480.87 mV
Plot Scale: 500.0 mV

MW-4

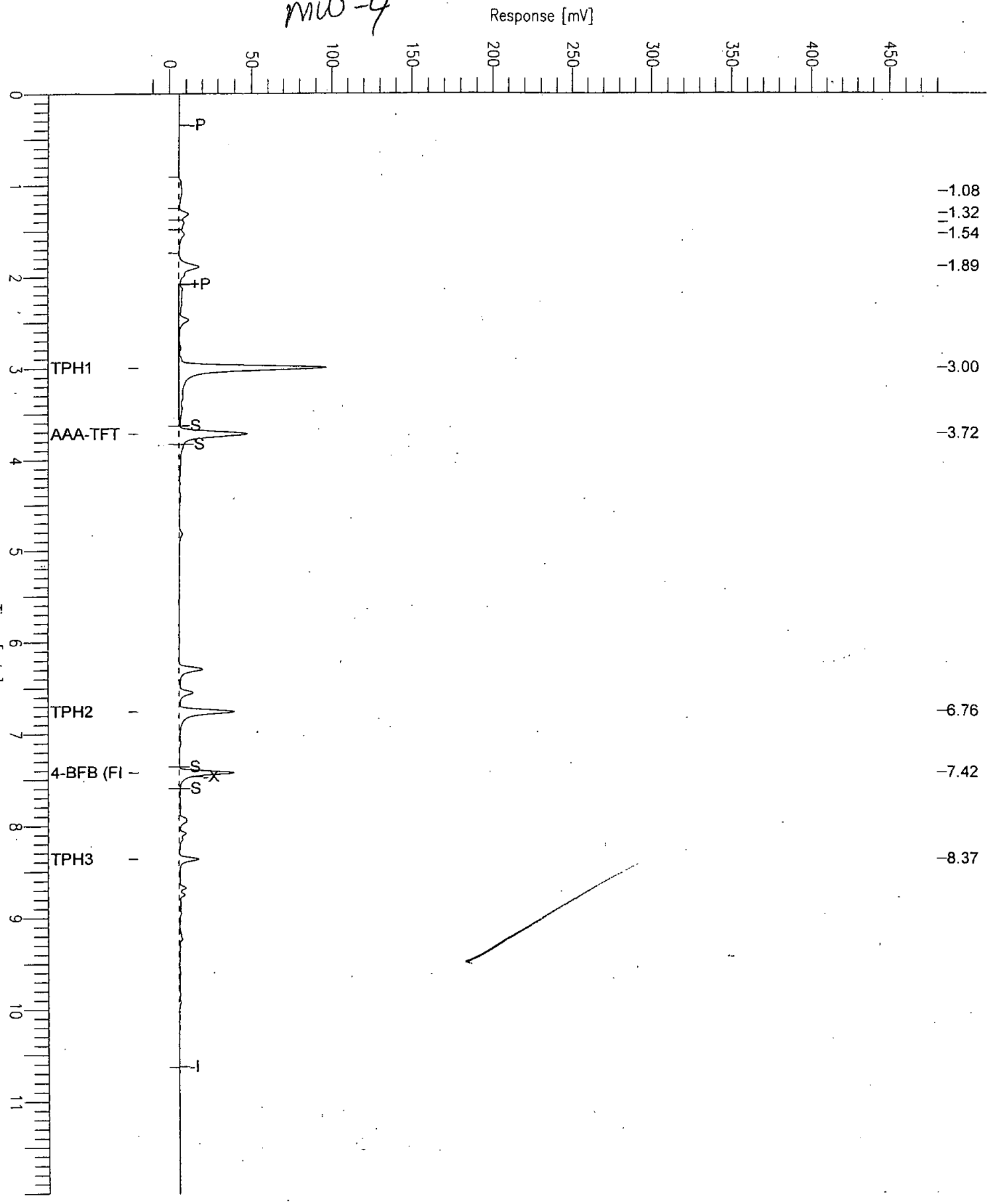


Chromatogram

Sample Name : CLD0373-01
FileName : H:\DATA\GC5\E02B009.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: W-50UL Page 1 of 1
Date : 05/02/2002 15:12
Time of Injection: 05/02/2002 11:00
Low Point : -19.25 mV High Point : 480.75 mV
Plot Scale: 500.0 mV

MW-4

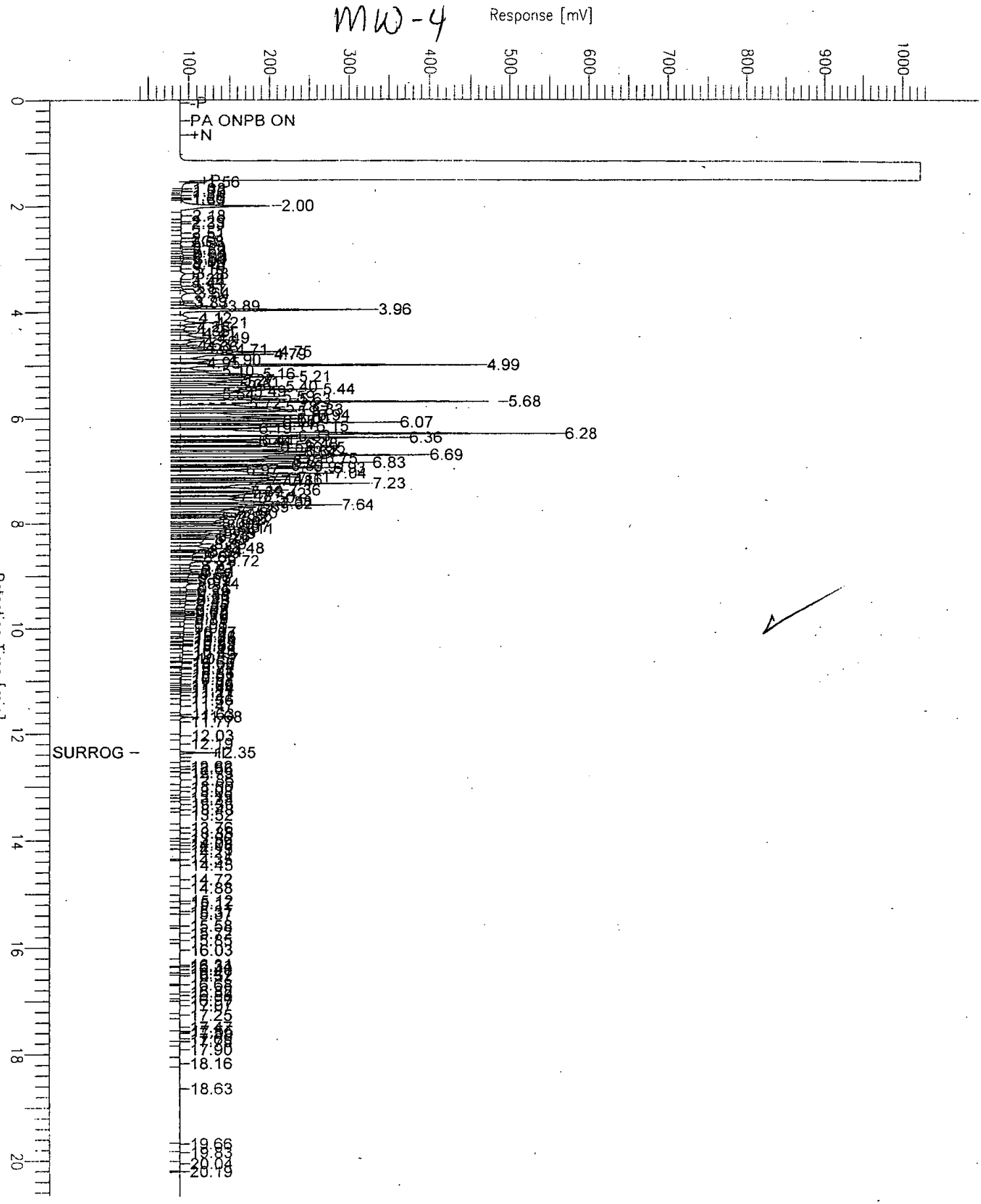


TPH Diesel (LUFT) Chromatogram

Sample Name : CLD0373-01
FileName : H:\DATA\GC2\E06B004.raw
Method : A14C840G
Start Time : 0.00 min End Time : 20.66 min
Scale Factor: -1.0 Plot Offset: 39 mV

Sample #: C2E0205 Page 1 of 1
Date : 5/7/02 09:53
Time of Injection: 5/6/02 23:06
Low Point : 39.44 mV High Point : 1039.44 mV
Plot Scale: 1000.0 mV

MW-4

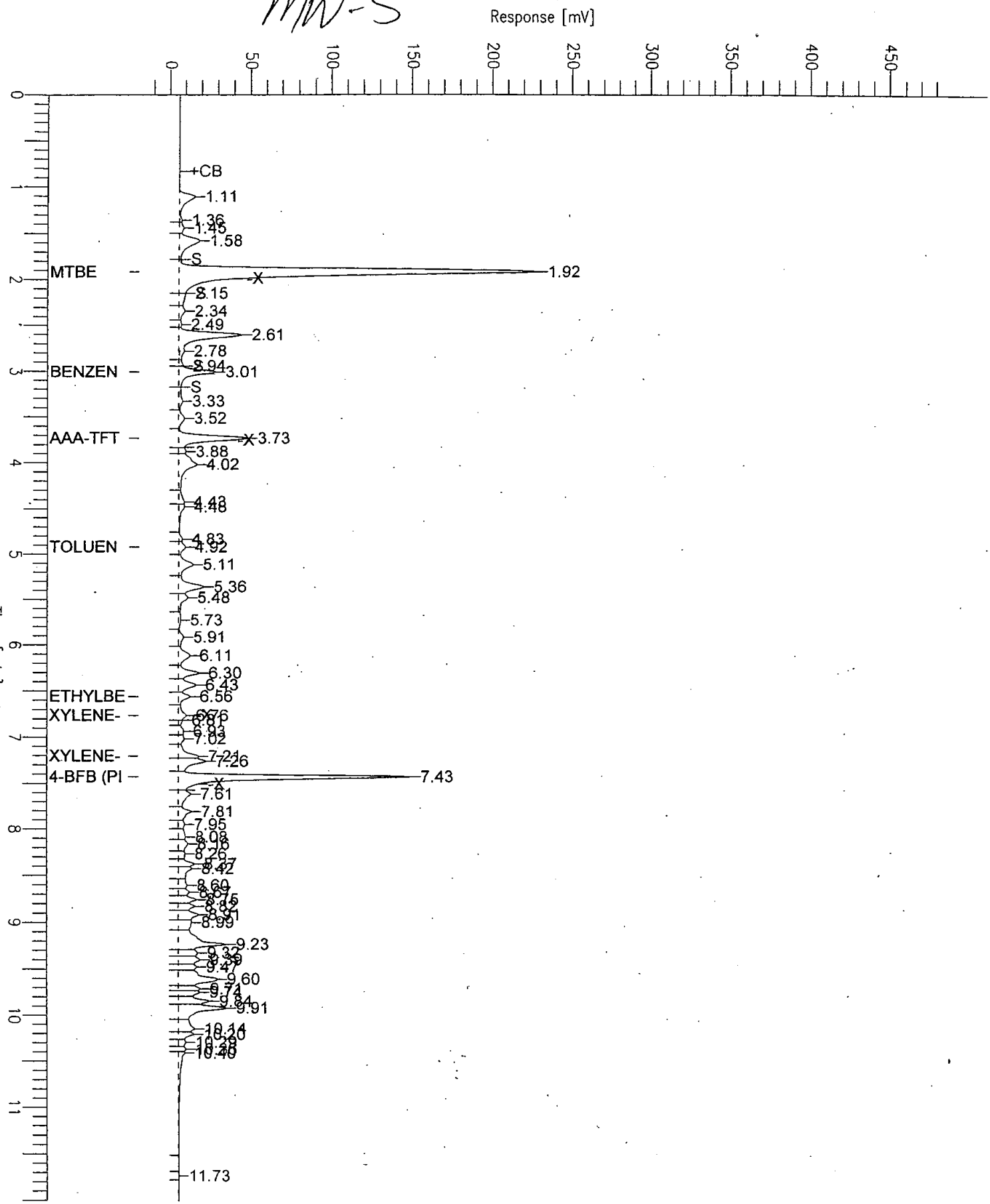


Chromatogram

Sample Name : CLD0370-04
FileName : H:\DATA\GC5\E02A026.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: W-5.0ML Page 1 of 1
Date : 05/03/2002 13:25
Time of Injection: 05/02/2002 18:18
Low Point : -19.07 mV High Point : 480.93 mV
Plot Scale: 500.0 mV

MW-5



Chromatogram

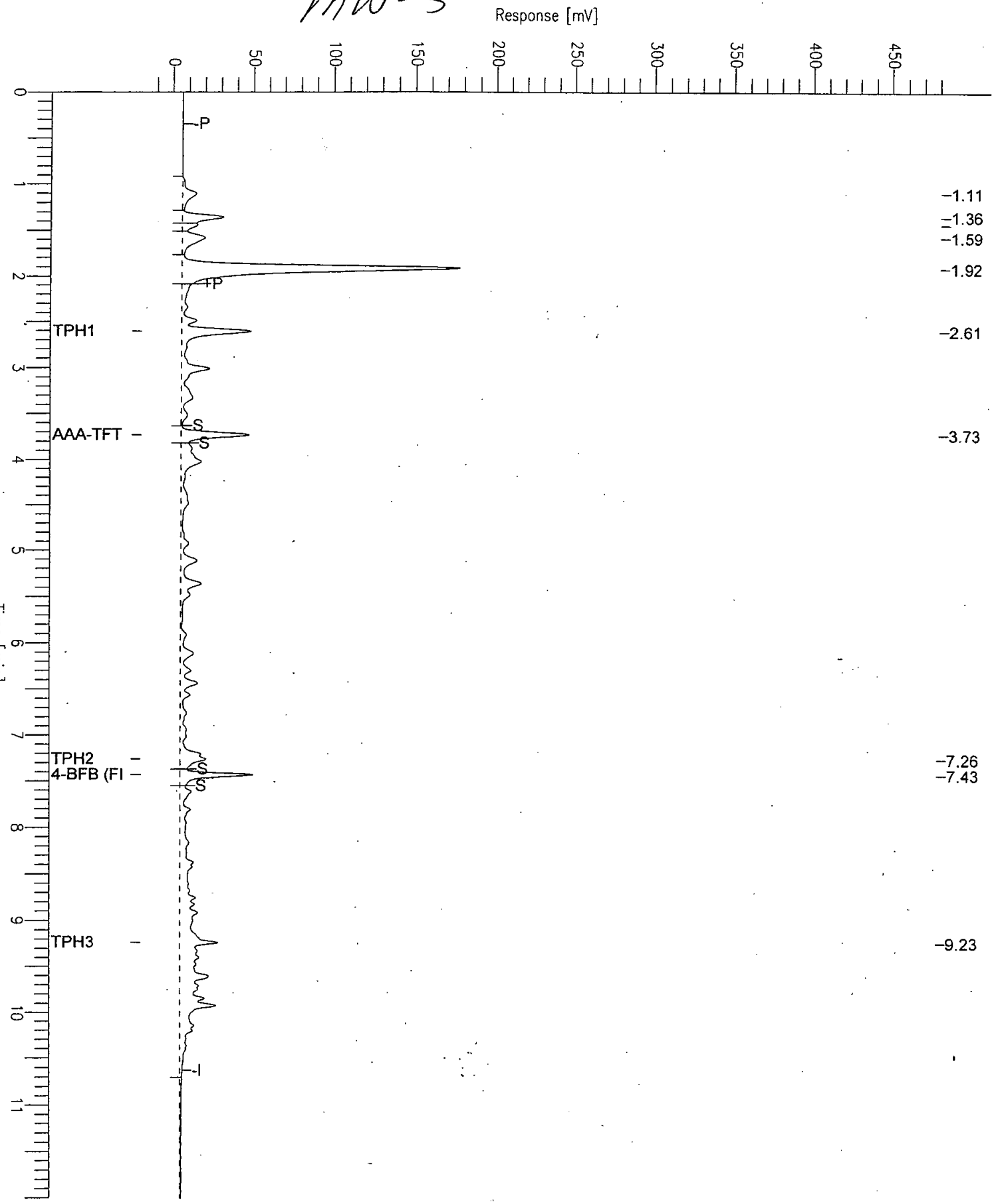
Sample Name : CLD0370-04
FileName : H:\DATA\GC5\E02B026.RAW
Method :
Start Time : 0.00 min
Scale Factor: -1.0

End Time : 12.00 min
Plot Offset: -19 mV

Sample #: W-5.0ML
Date : 05/03/2002 13:22
Time of Injection: 05/02/2002 18:18
Low Point : -19.22 mV
Plot Scale: 500.0 mV

High Point : 480.78 mV

MW-5

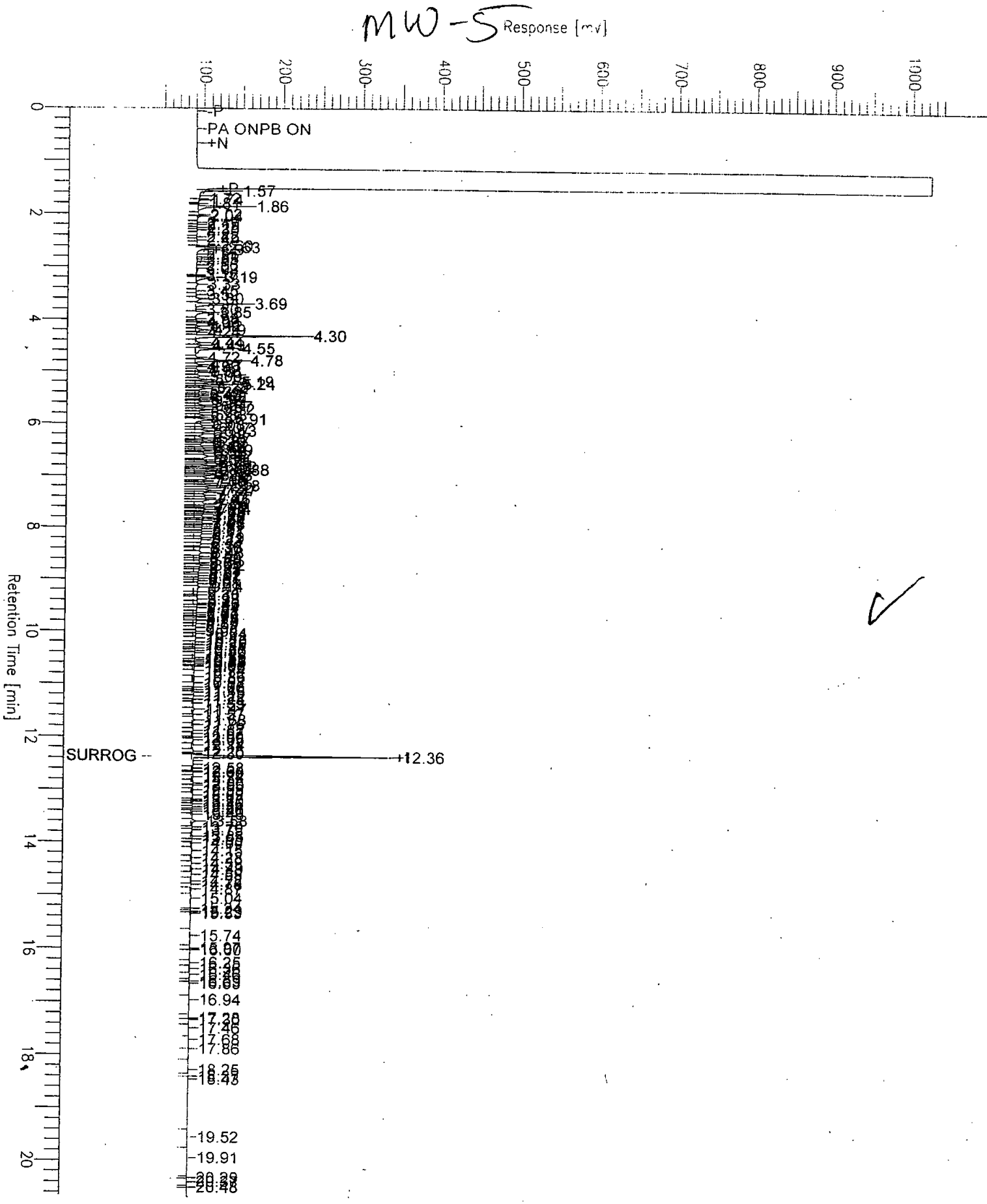


TPH Diesel (LUFT) Chromatogram

Sample Name : CLD0370-04
FileName : H:\DATA\GC2\E03B012.raw
Method : A14C840G
Start Time : 0.00 min End Time : 20.66 min
Scale Factor: -1.0 Plot Offset: 40 mV

Sample #: C2E0205 Page 1 of 1
Date : 5/3/02 17:04
Time of Injection: 5/3/02 16:42
Low Point : 40.27 mV High Point : 1040.27 mV
Plot Scale: 1000.0 mV

MW-5

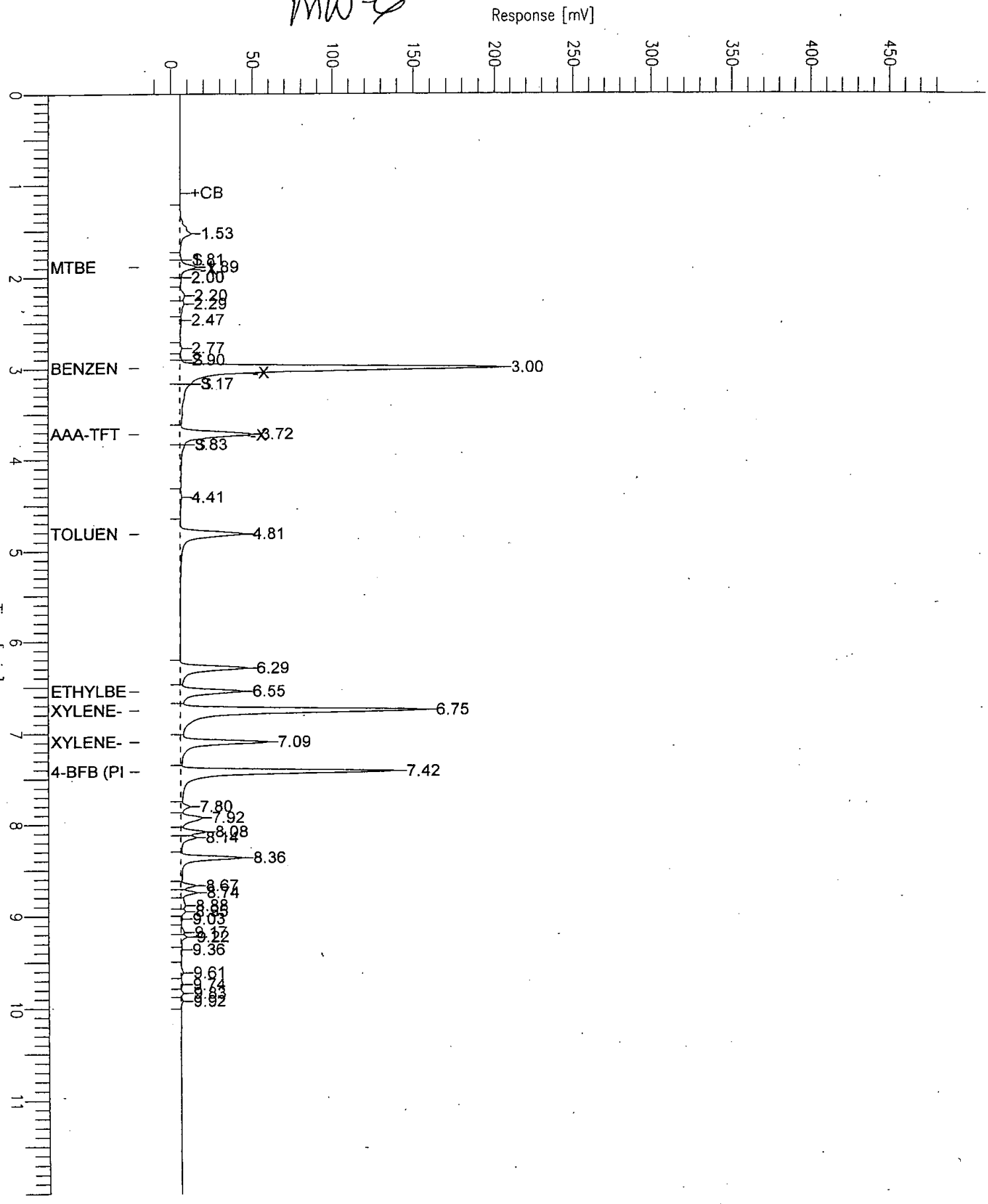


Chromatogram

Sample Name : CLD0373-02
FileName : H:\DATA\GC5\E02A010.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: W-50UL Page 1 of 1
Date : 05/02/2002 15:19
Time of Injection: 05/02/2002 11:23
Low Point : -19.14 mV High Point : 480.86 mV
Plot Scale: 500.0 mV

MW-6

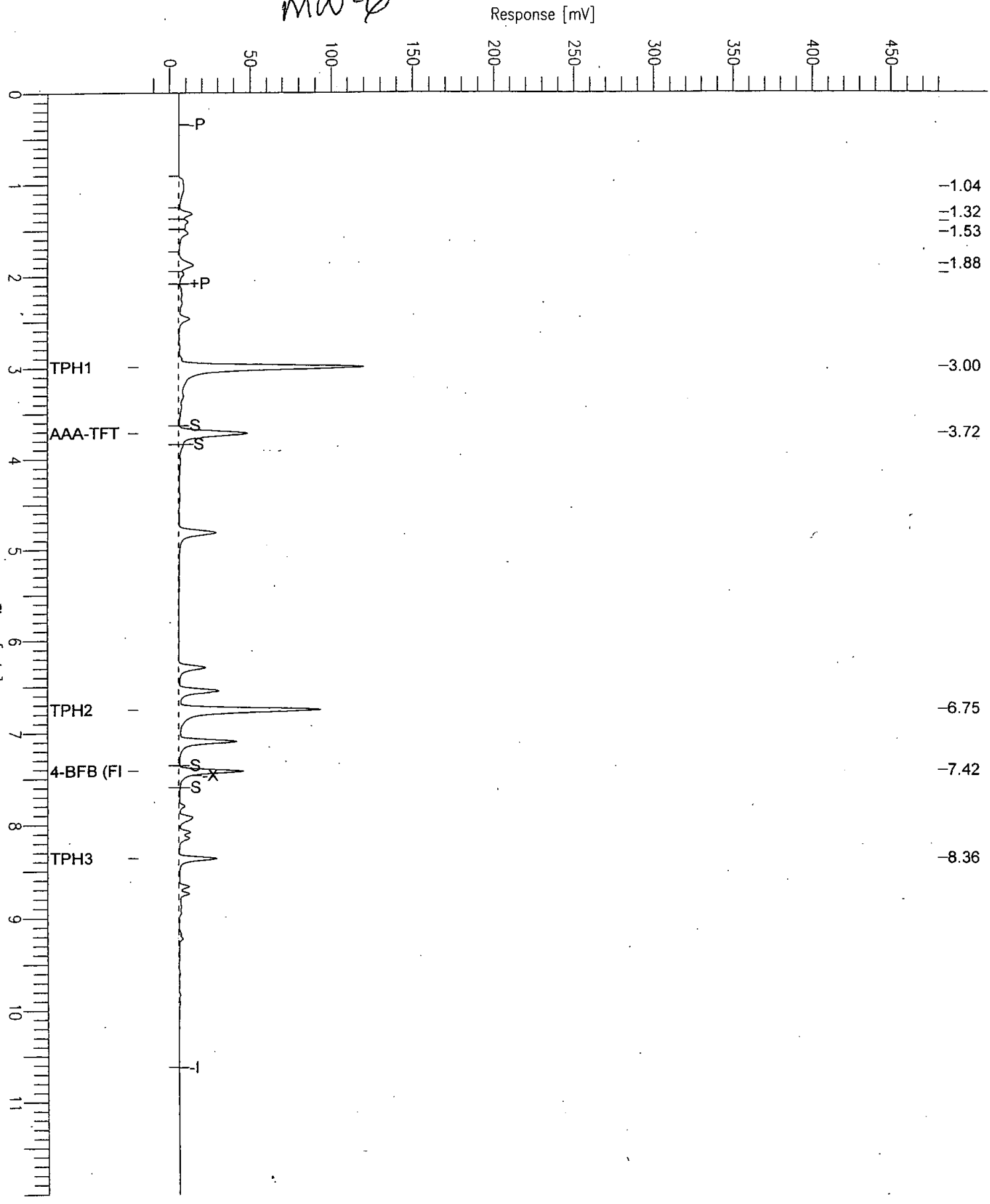


Chromatogram

Sample Name : CLD0373-02
FileName : H:\DATA\GC5\E02B010.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: W-50UL Page 1 of 1
Date : 05/02/2002 15:13
Time of Injection: 05/02/2002 11:23
Low Point : -19.25 mV High Point : 480.75 mV
Plot Scale: 500.0 mV

MW-6

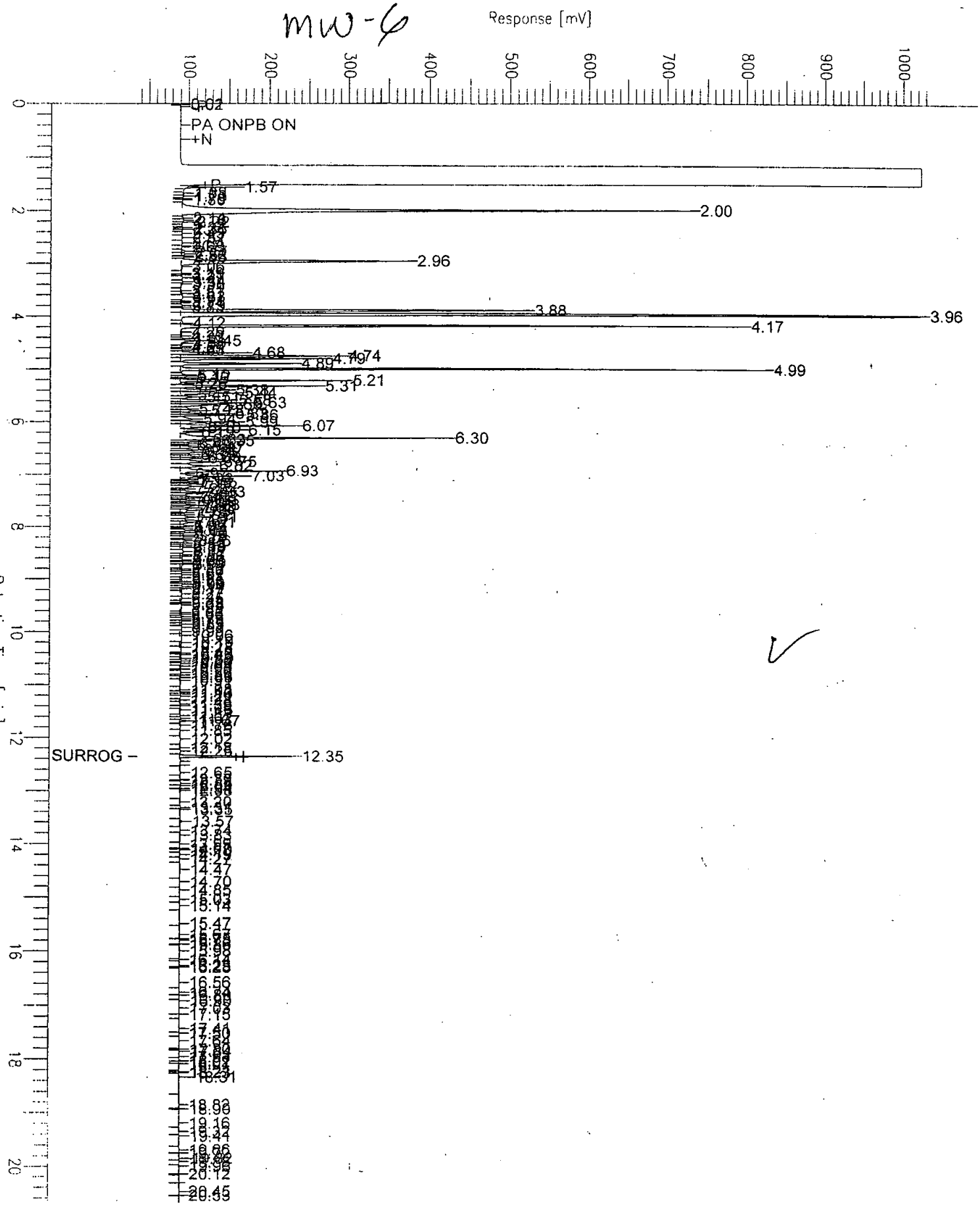


TPH Diesel (LUFT) Chromatogram

Sample Name : CLD0373-02
FileName : H:\DATA\GC2\E06B005.raw
Method : Al4C840G
Start Time : 0.00 min End Time : 20.66 min
Scale Factor: -1.0 Plot Offset: 37 mV

Sample #: C2E0205 Page 1 of 1
Date : 5/7/02 09:53
Time of Injection: 5/6/02 23:36
Low Point : 36.94 mV High Point : 1036.94 mV
Plot Scale: 1000.0 mV

MW-6



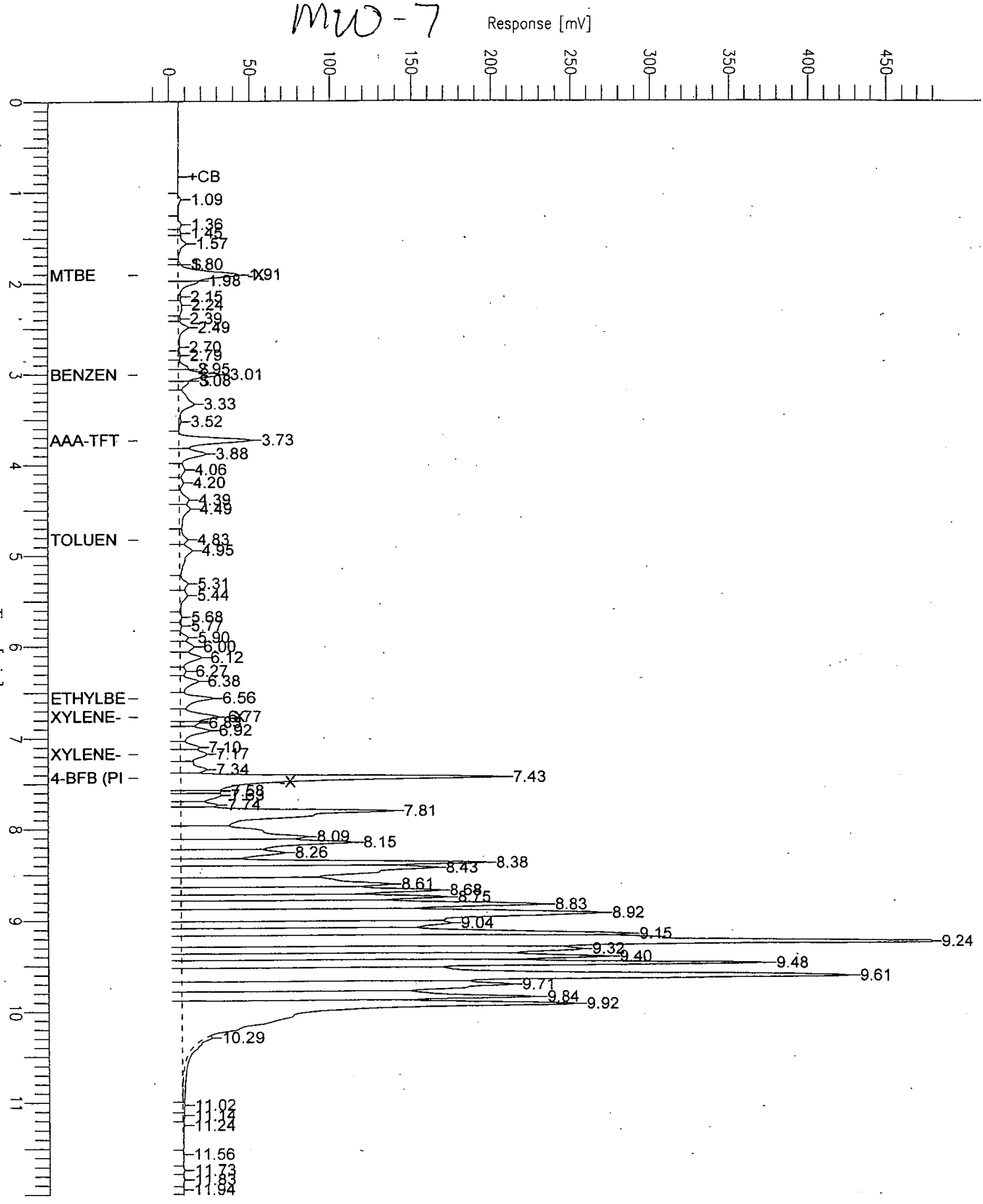
Chromatogram

373-03 BT 6/4/02

Sample Name : ~~CLD0370-03~~
FileName : H:\DATA\GC5\E02A025.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: W-10.0ML Page 1 of 1
Date : 05/03/2002 13:18
Time of Injection: 05/02/2002 17:55
Low Point : -19.09 mV High Point : 480.92 mV
Plot Scale: 500.0 mV

MW-7



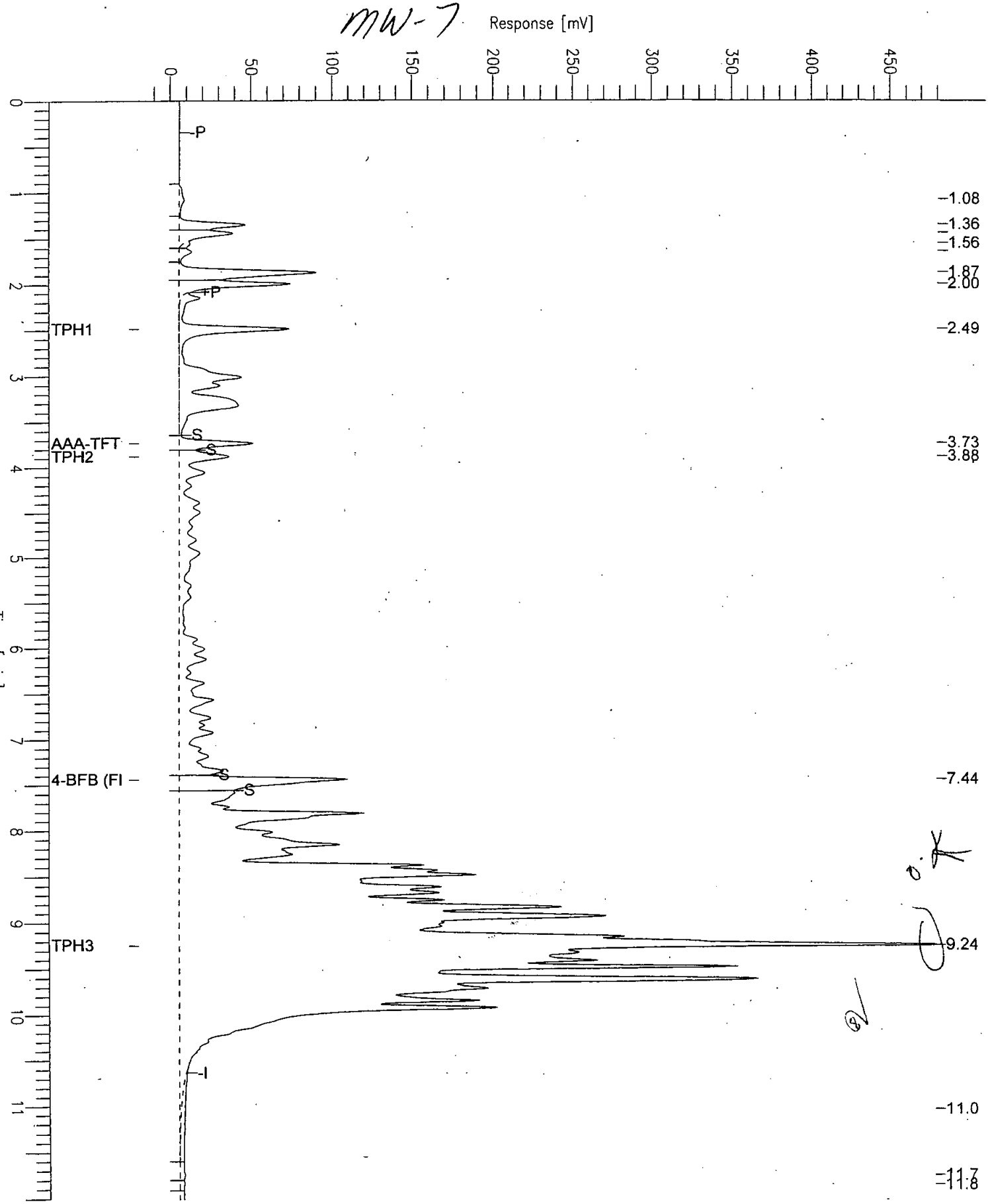
Chromatogram

373-03

Sample Name : ~~GLD0370-03~~ 11/4/02
FileName : H:\DATA\GC5\E02B025.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: W-10.0ML Page 1 of 1
Date : 05/03/2002 13:16
Time of Injection: 05/02/2002 17:55
Low Point : -19.24 mV High Point : 480.76 mV
Plot Scale: 500.0 mV

MW-7

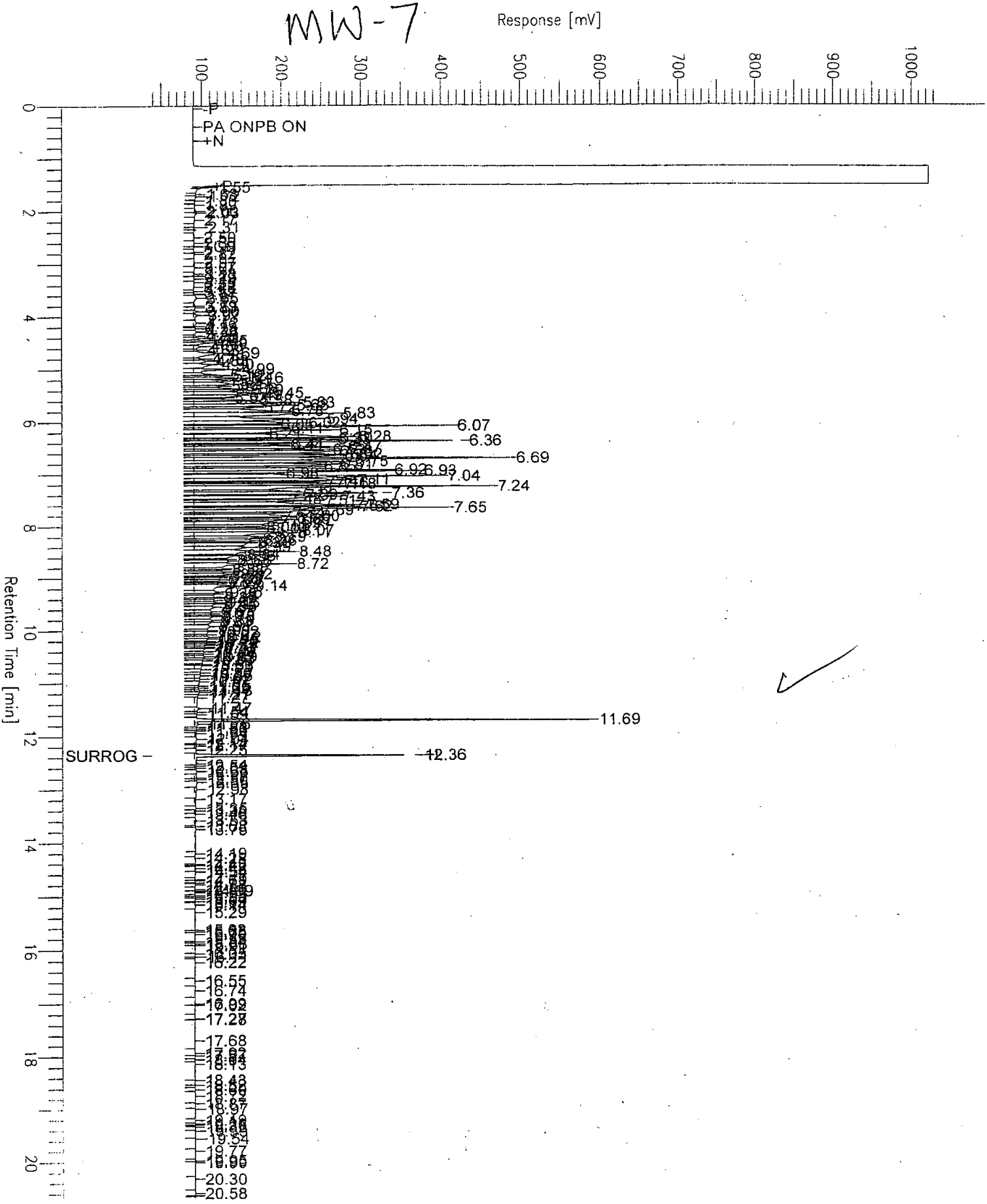


TPH Diesel (LUFT) Chromatogram

Sample Name : CLD0373-03
FileName : H:\DATA\GC2\E06B006.raw
Method : A14C840G
Start Time : 0.00 min End Time : 20.66 min
Scale Factor: -1.0 Plot Offset: 37 mV

Sample #: C2E0205 Page 1 of 1
Date : 5/7/02 09:53
Time of Injection: 5/7/02 00:07
Low Point : 37.44 mV High Point : 1037.44 mV
Plot Scale: 1000.0 mV

MW-7

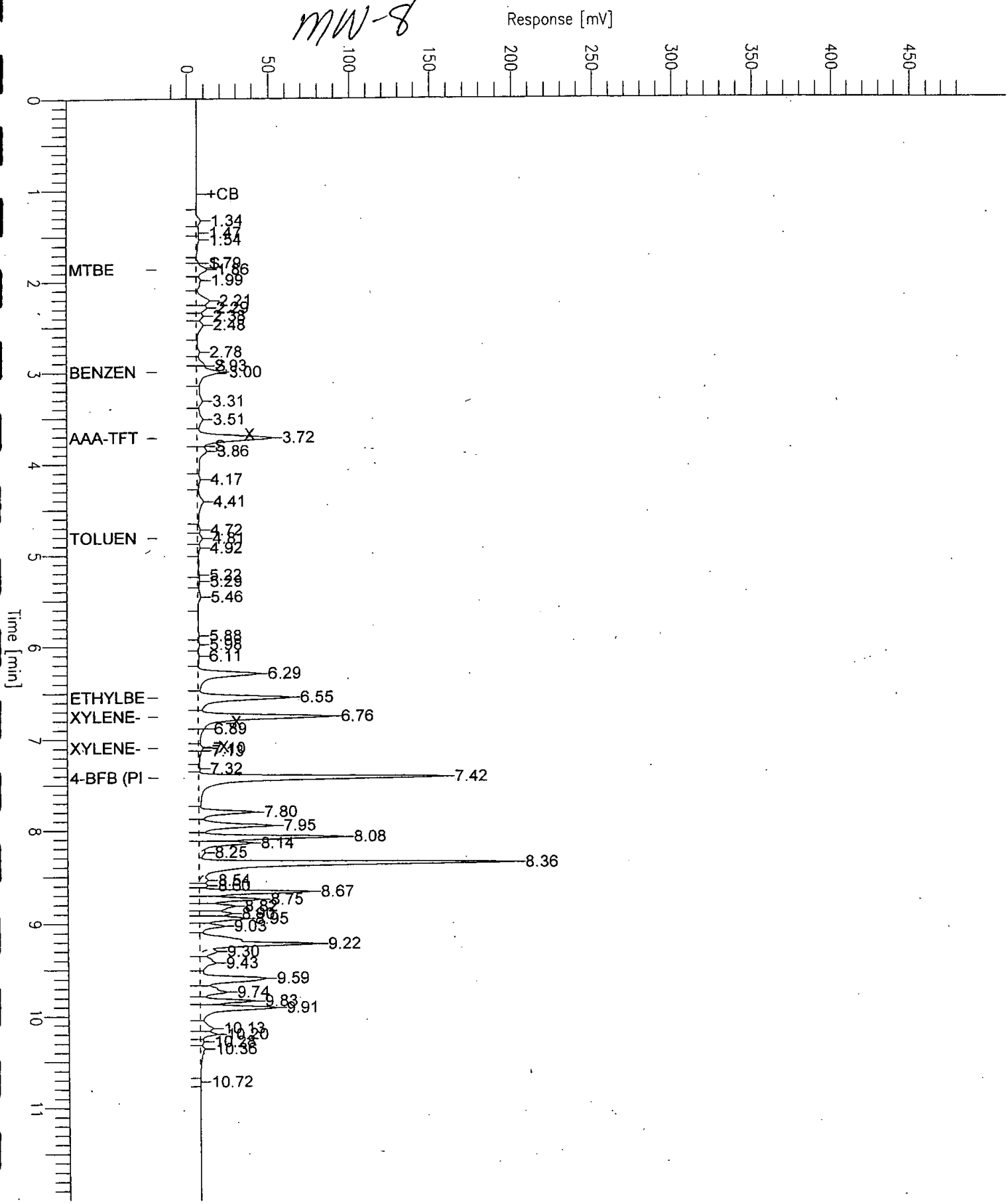


Chromatogram

Sample Name : CLD0373-04
FileName : H:\DATA\GC5\E02A012.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: W-0.5ML Page 1 of 1
Date : 05/02/2002 15:24
Time of Injection: 05/02/2002 12:09
Low Point : -19.10 mV High Point : 480.90 mV
Plot Scale: 500.0 mV

MW-8

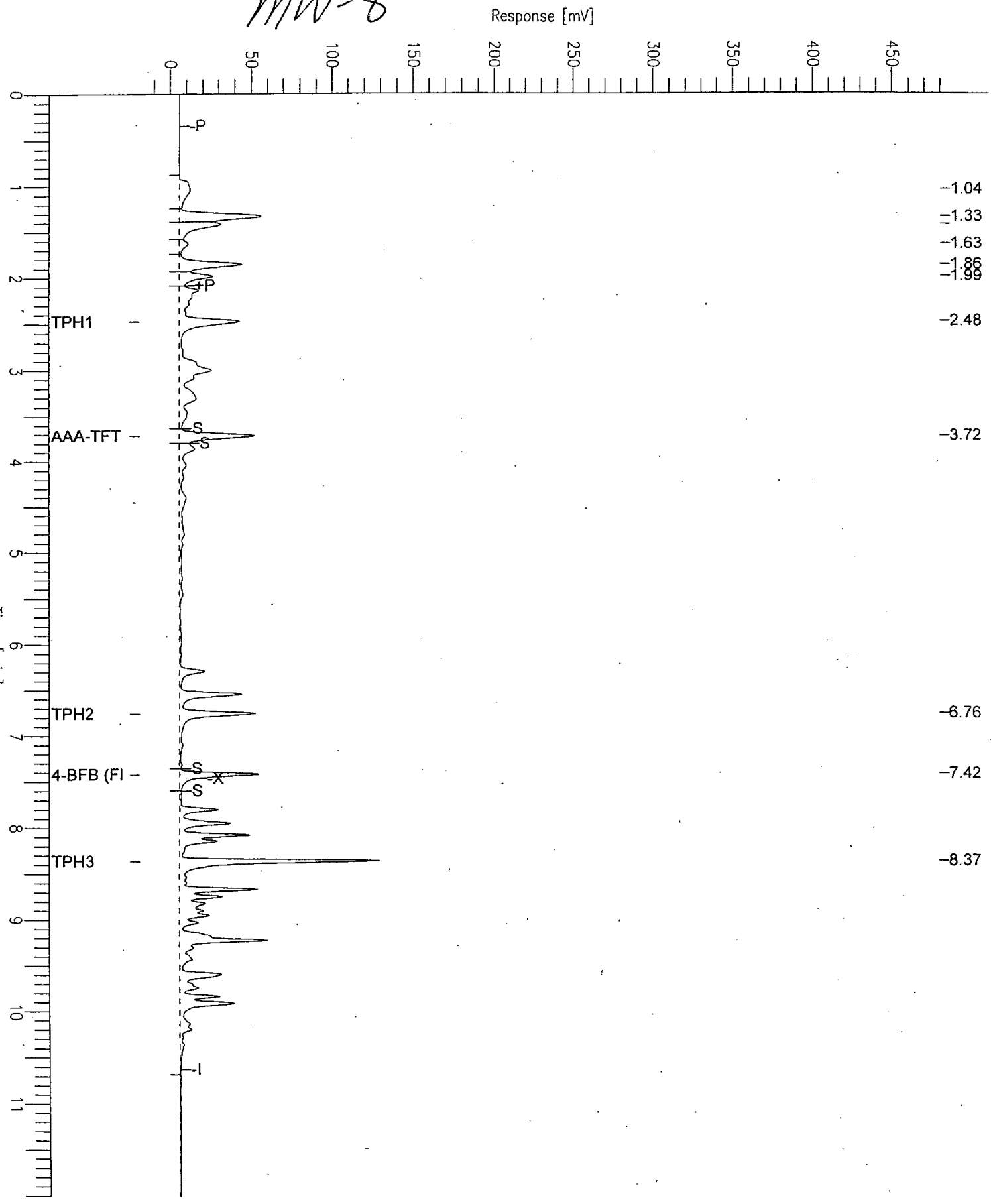


Chromatogram

Sample Name : CLD0373-04
FileName : H:\DATA\GC5\E02B012.RAW
Method :
Start Time : 0.00 min End Time : 12.00 min
Scale Factor: -1.0 Plot Offset: -19 mV

Sample #: W-0.5ML Page 1 of 1
Date : 05/02/2002 15:14
Time of Injection: 05/02/2002 12:09
Low Point : -19.25 mV High Point : 480.75 mV
Plot Scale: 500.0 mV

MW-8

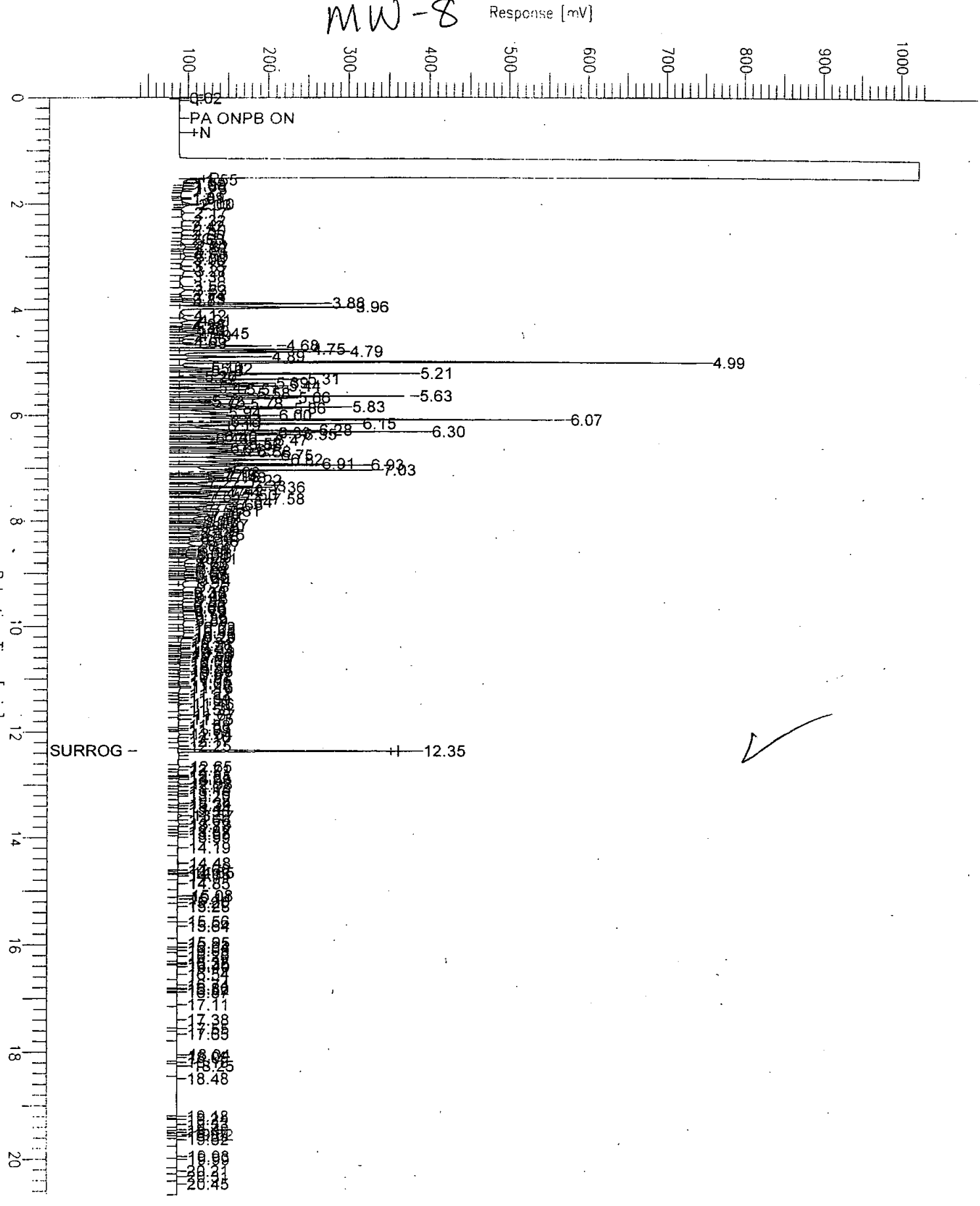


TPH Diesel (LUFT) Chromatogram

Sample Name : CLD0373-04
FileName : H:\DATA\GC2\E06B007.raw
Method : A14C840G
Start Time : 0.00 min End Time : 20.66 min
Scale Factor: -1.0 Plot Offset: 39 mV

Sample #: C2E0205 Page 1 of 1
Date : 5/7/02 09:53
Time of Injection: 5/7/02 00:37
Low Point : 39.10 mV High Point : 1039.10 mV
Plot Scale: 1000.0 mV

MW-8

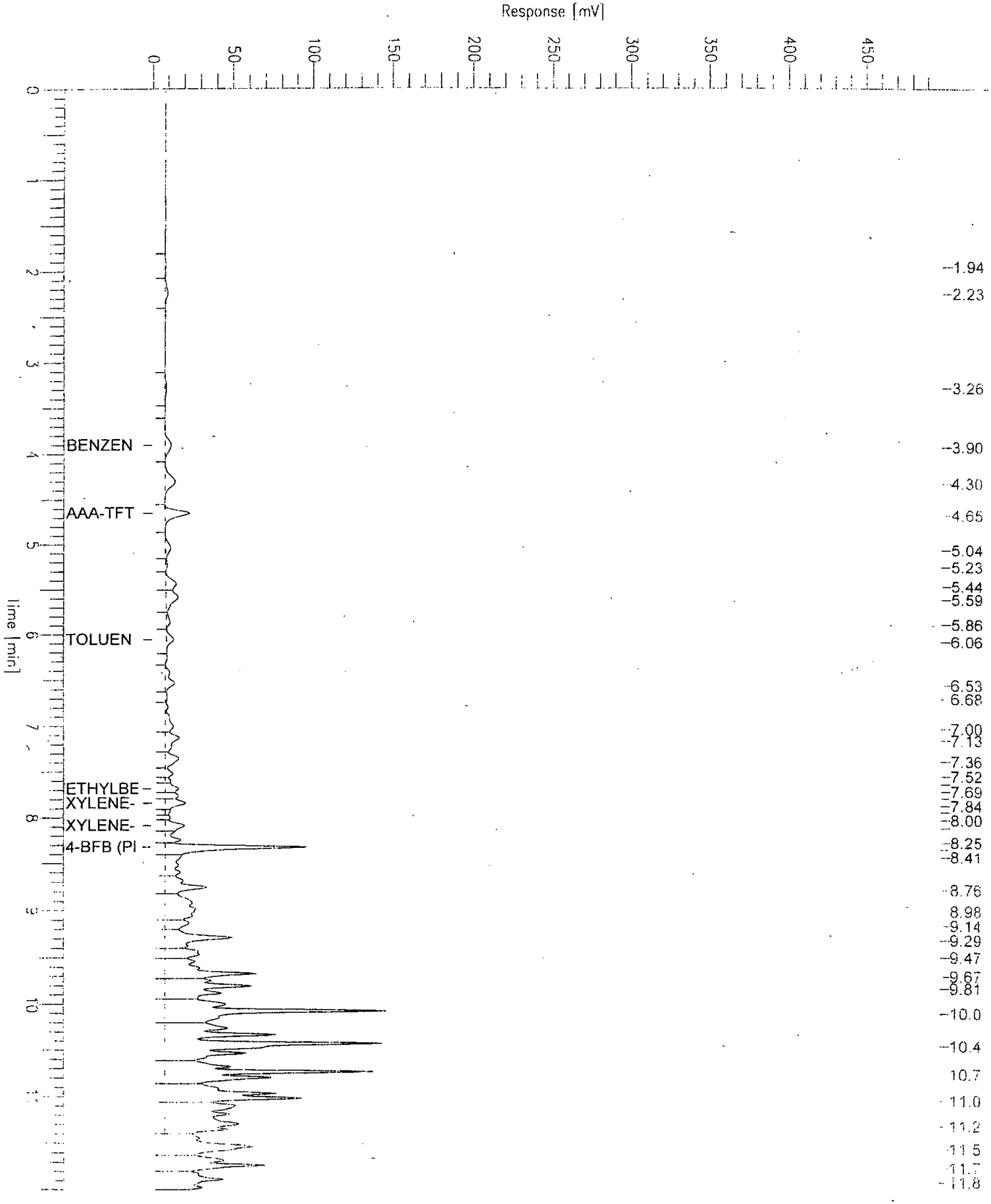


[redacted] 5:10/100

MW8-33

[redacted] 6/29/02

[redacted]

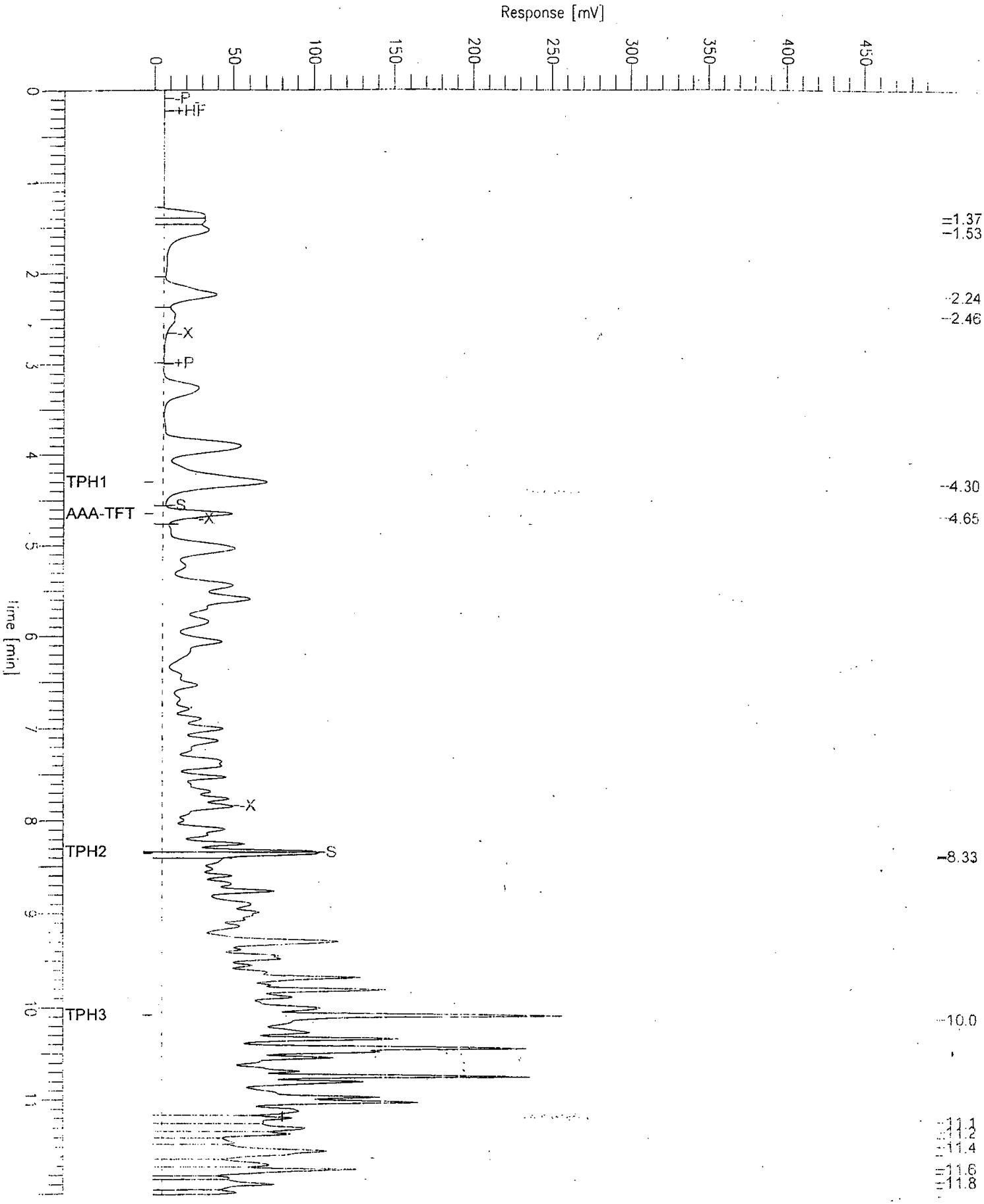


5110/100

MW8-33 [redacted]

4/29/02

[redacted]



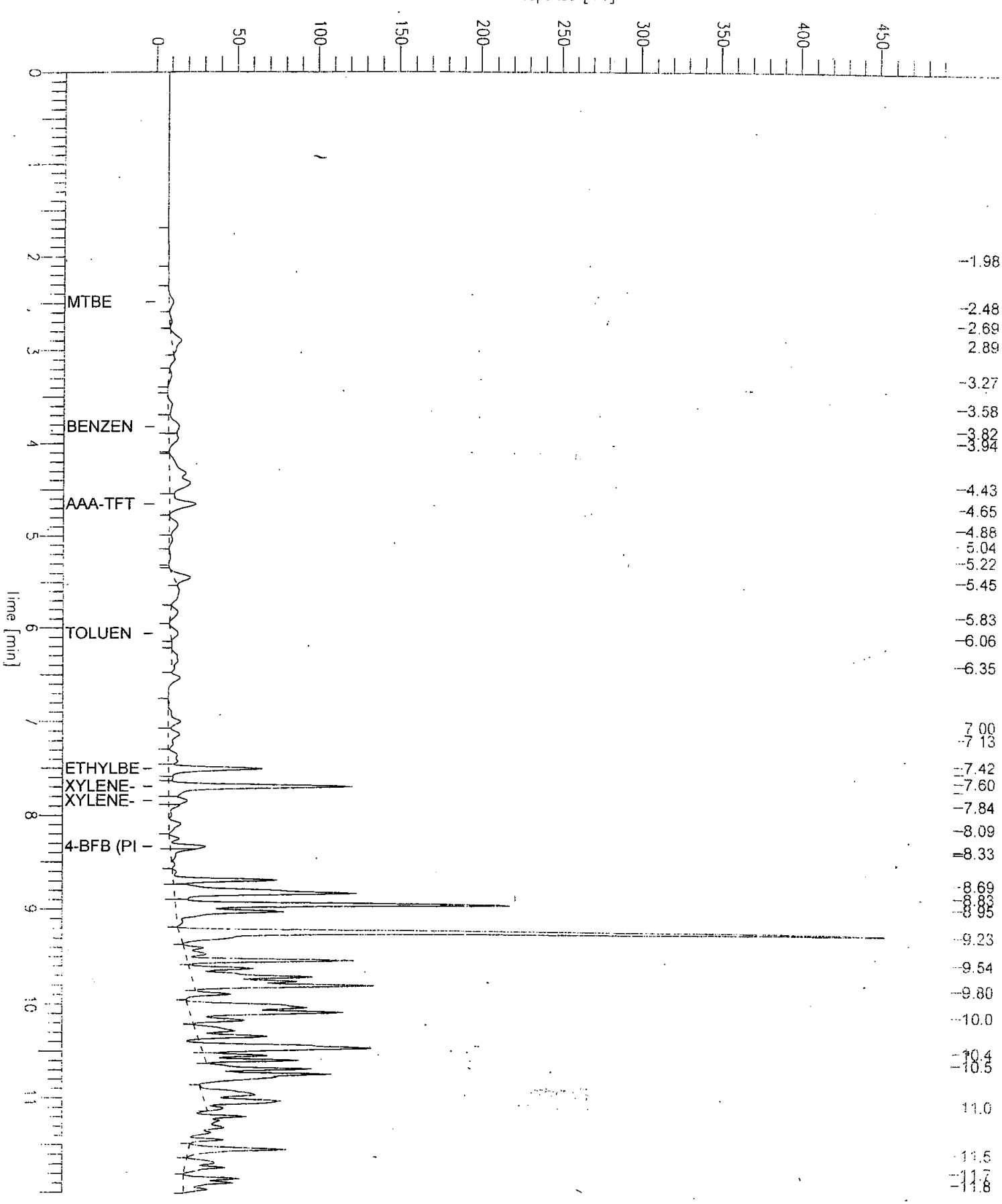
CLD 0283-11
5:10/10

[redacted]

4/26/02

[redacted]

MW8-34.5



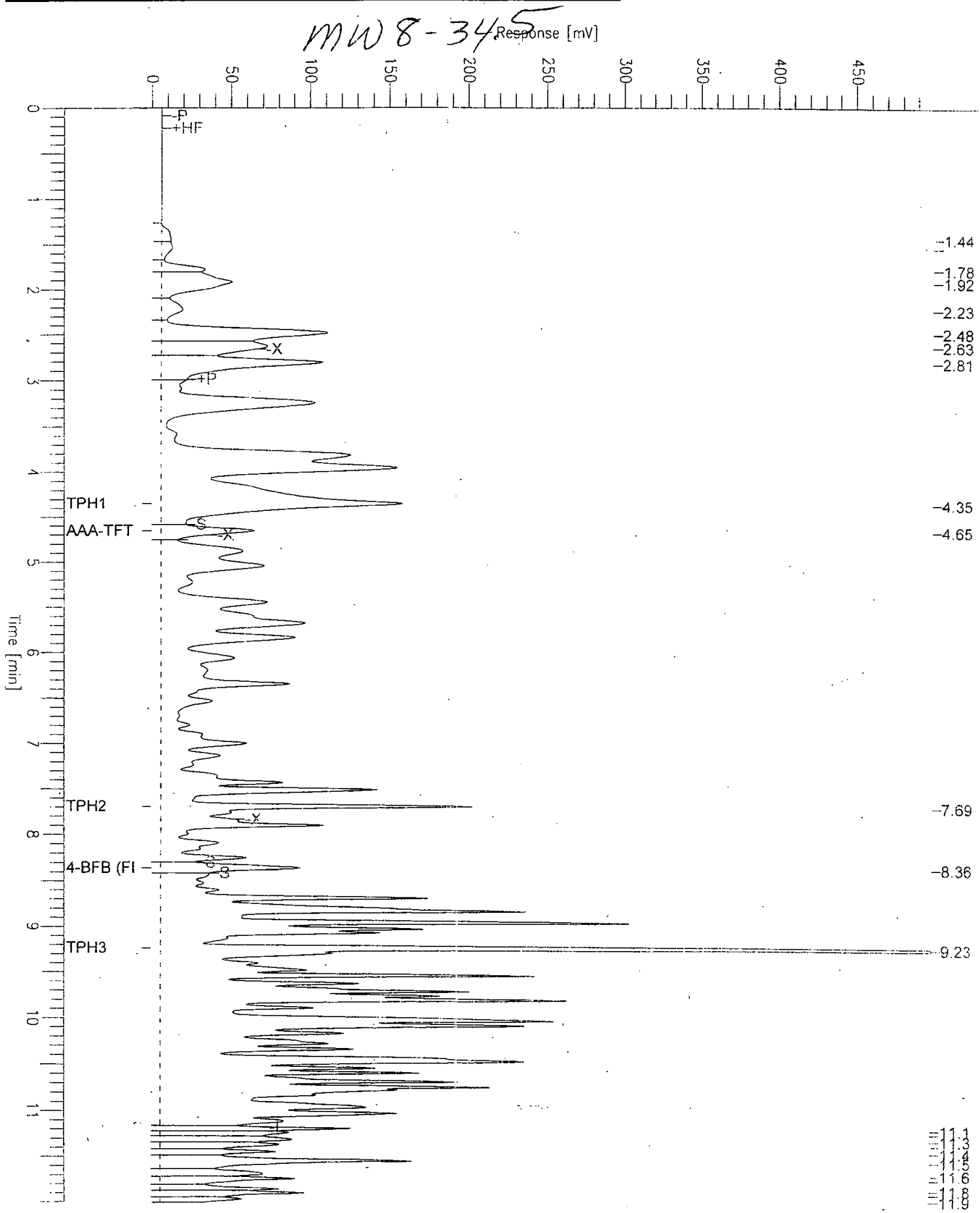
CL000283-11
5/10/10

[redacted]

4/26/02

[redacted]

MW 8-345



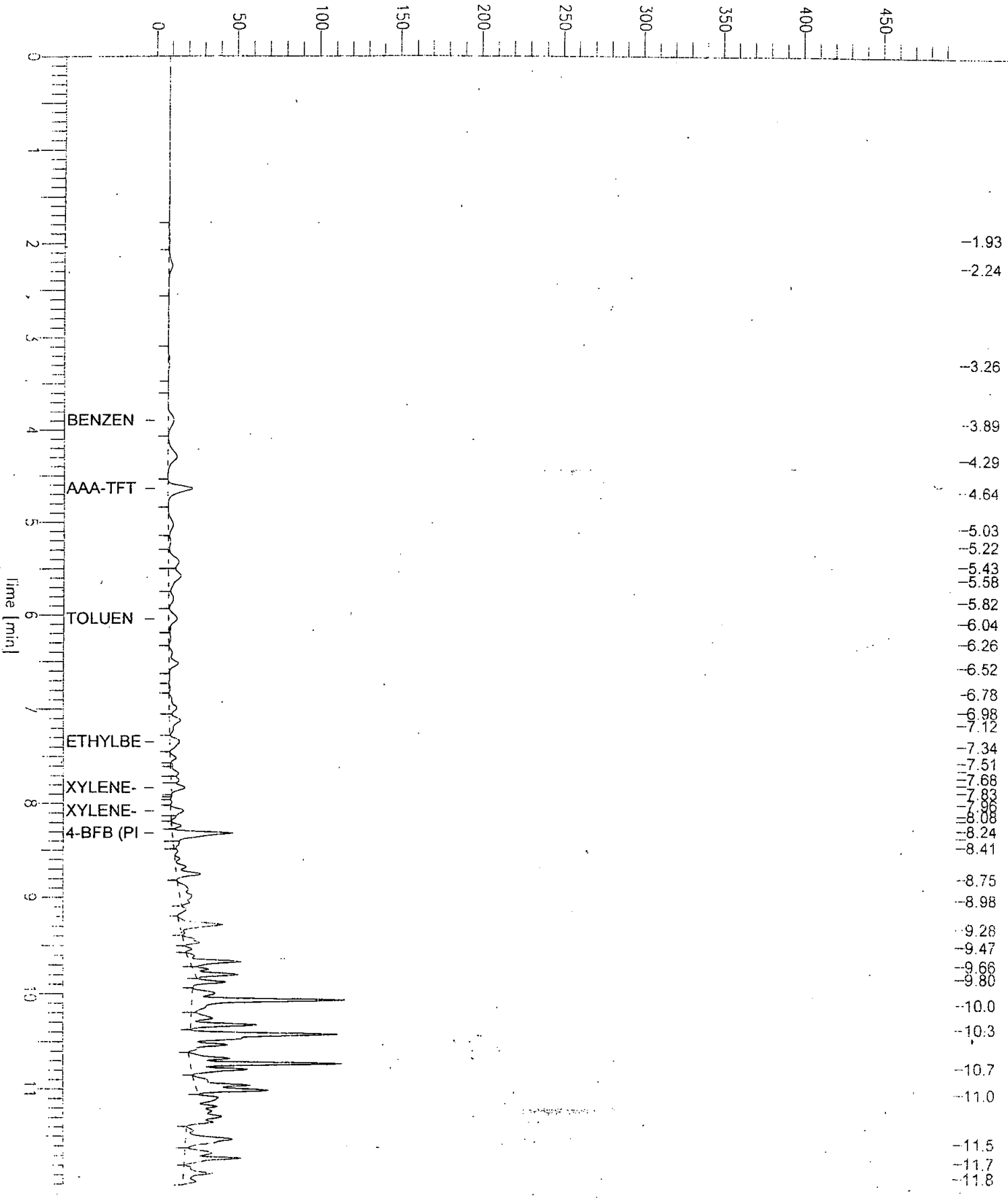
CLP0283-12
5:10/40

4/29/02

[redacted]

[redacted]

MW8-35.5



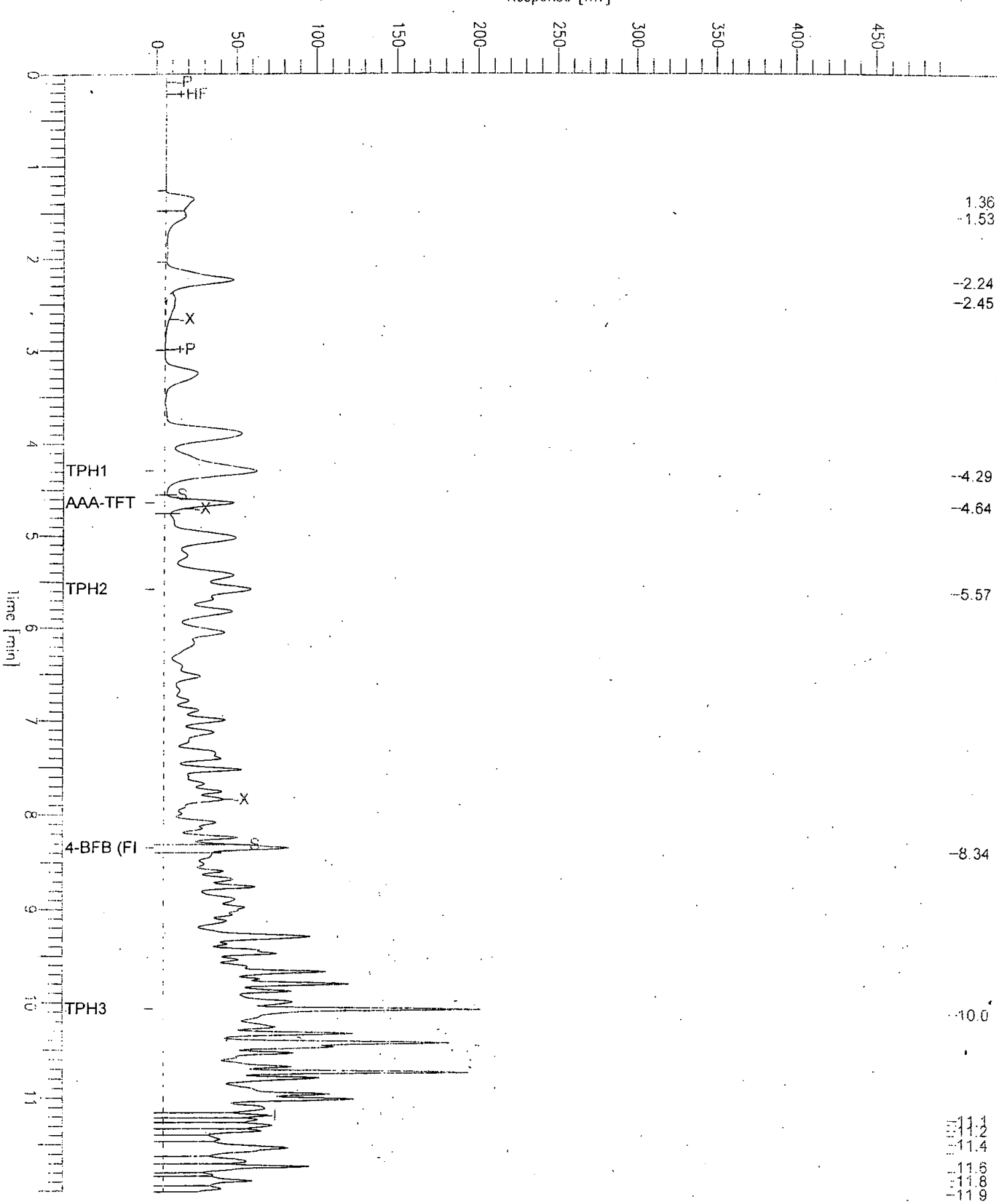
CL0028 3-12
5:10/40

[redacted]

4/29/02

[redacted]

MW8-35.5

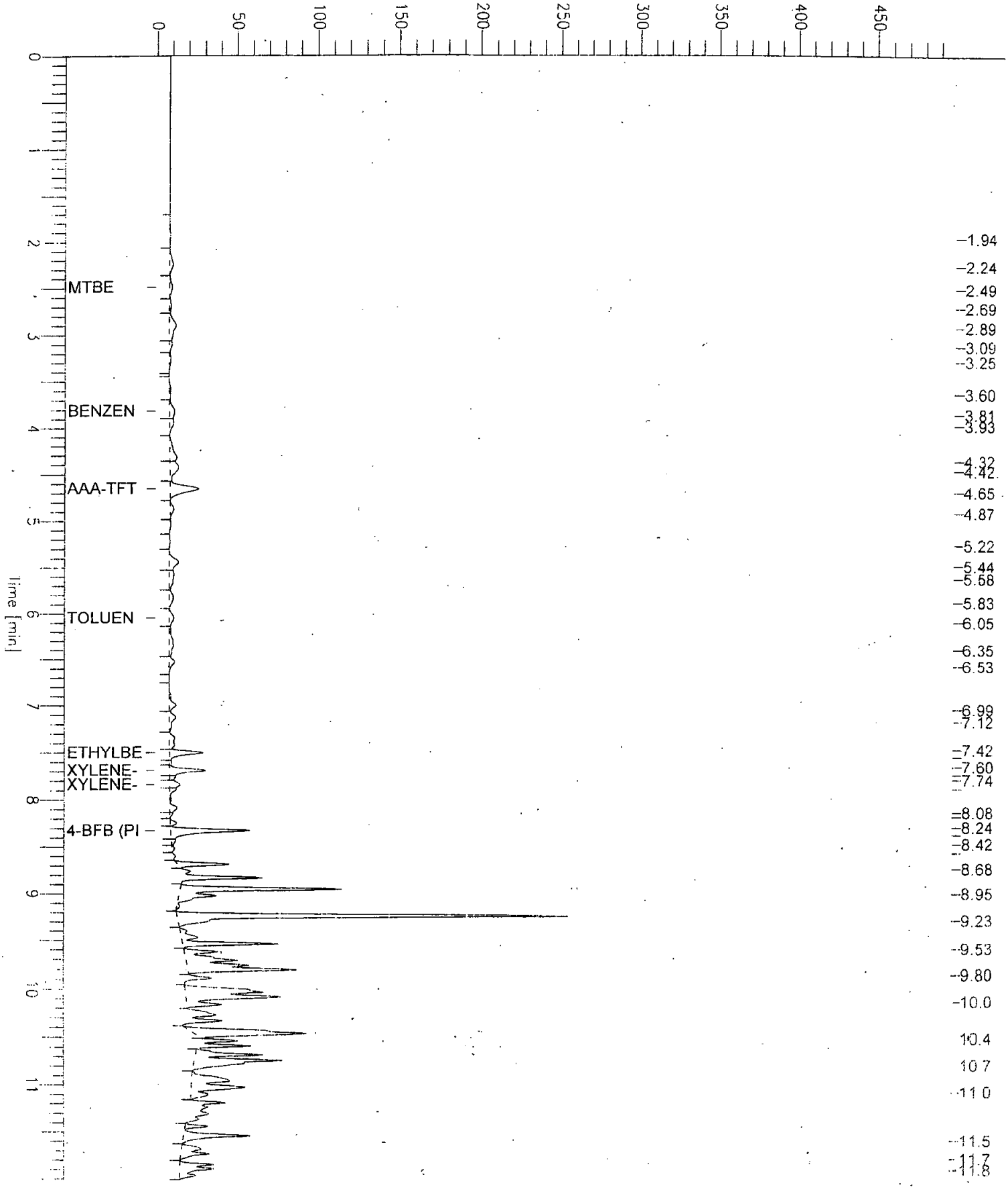


C400283-14
S: 10/40

[redacted] 1/29/02

[redacted]

MW8-37



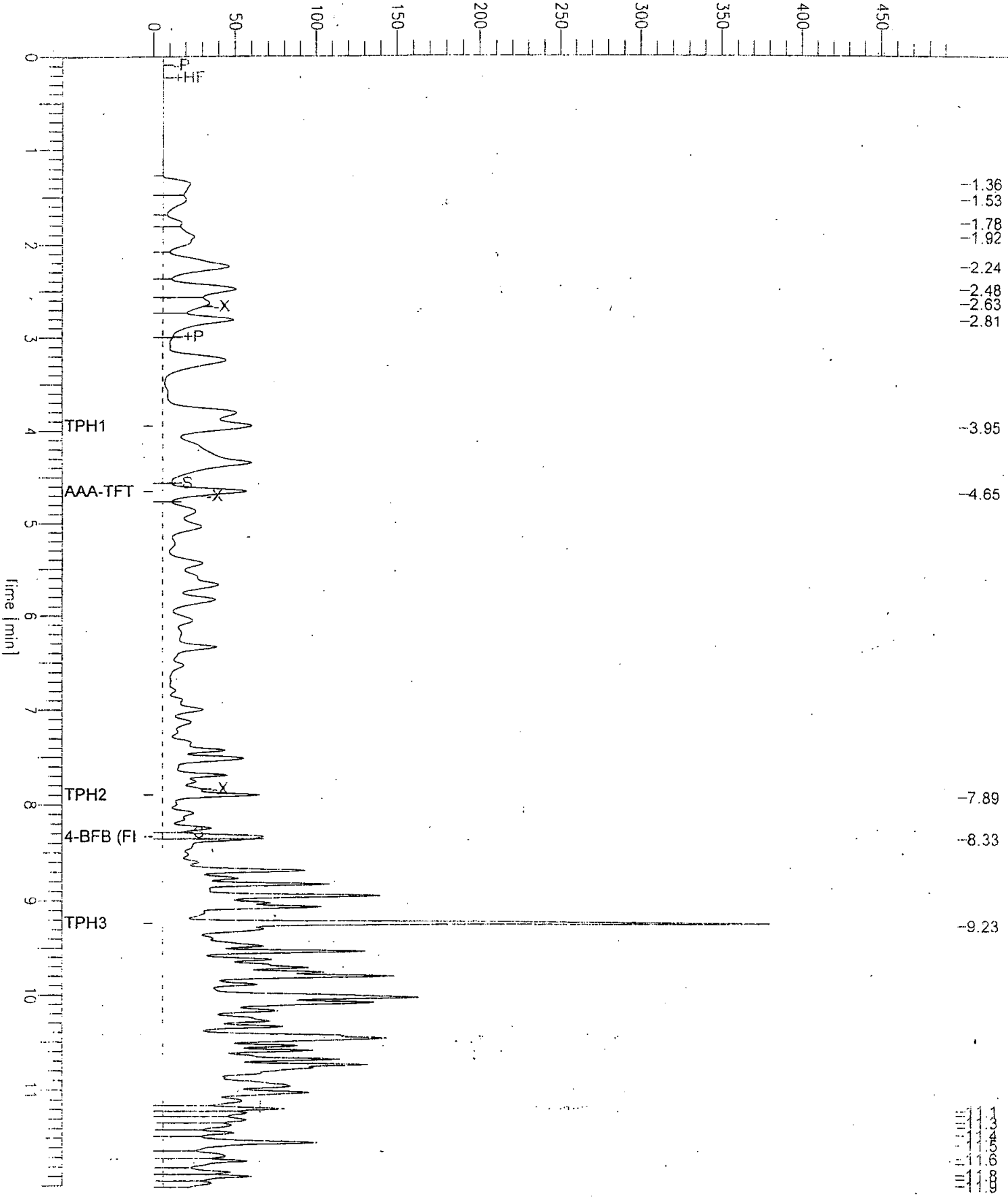
CLD0283-14
5:10/40

[redacted]

1/29/02

[redacted]

MW8-37



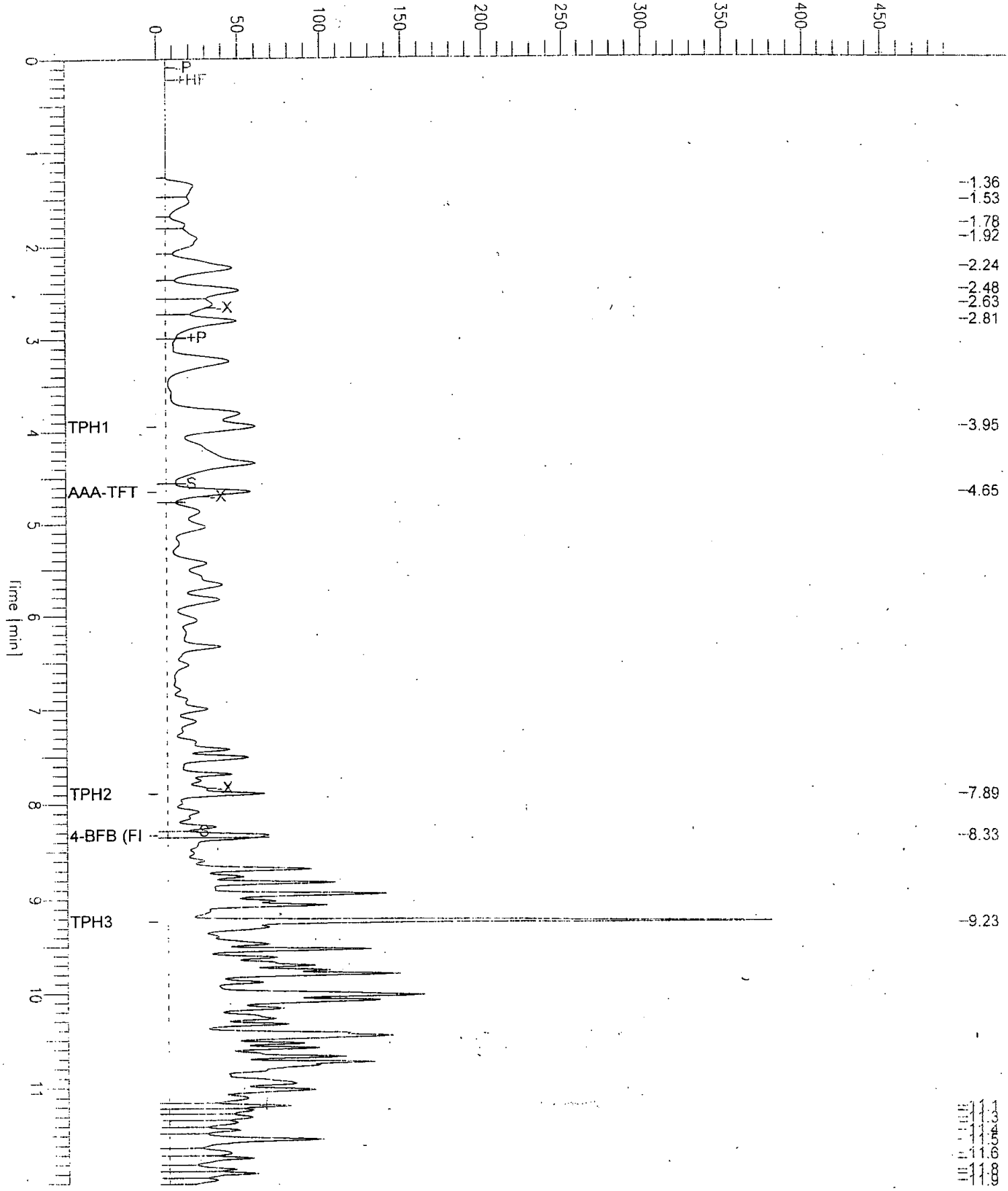
CLD0283-14
5:10/40

[redacted]

4/29/02

[redacted]

MW8-37

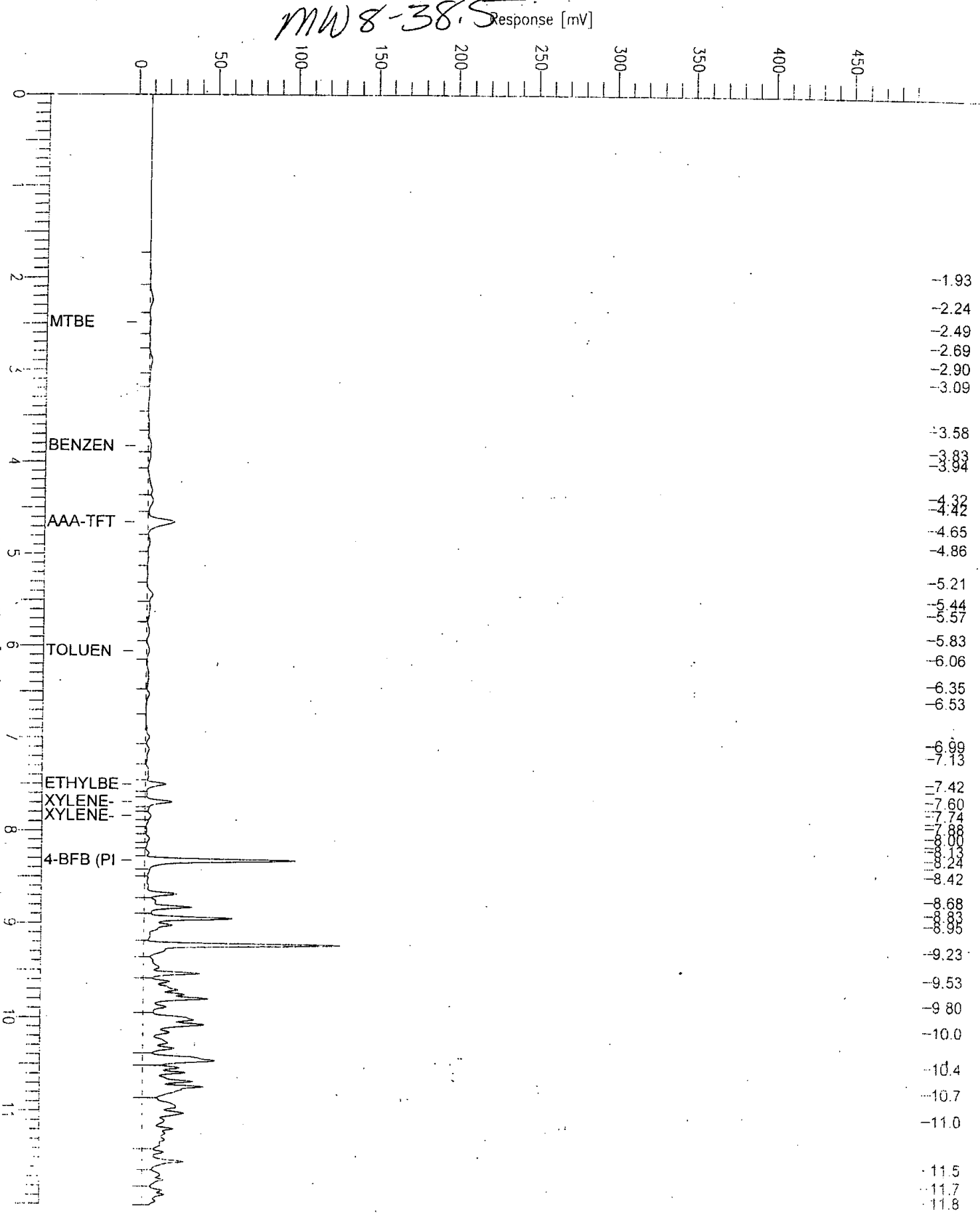


CCV0203-16
5:10/00

4/29/02

[redacted]

MW8-38.5

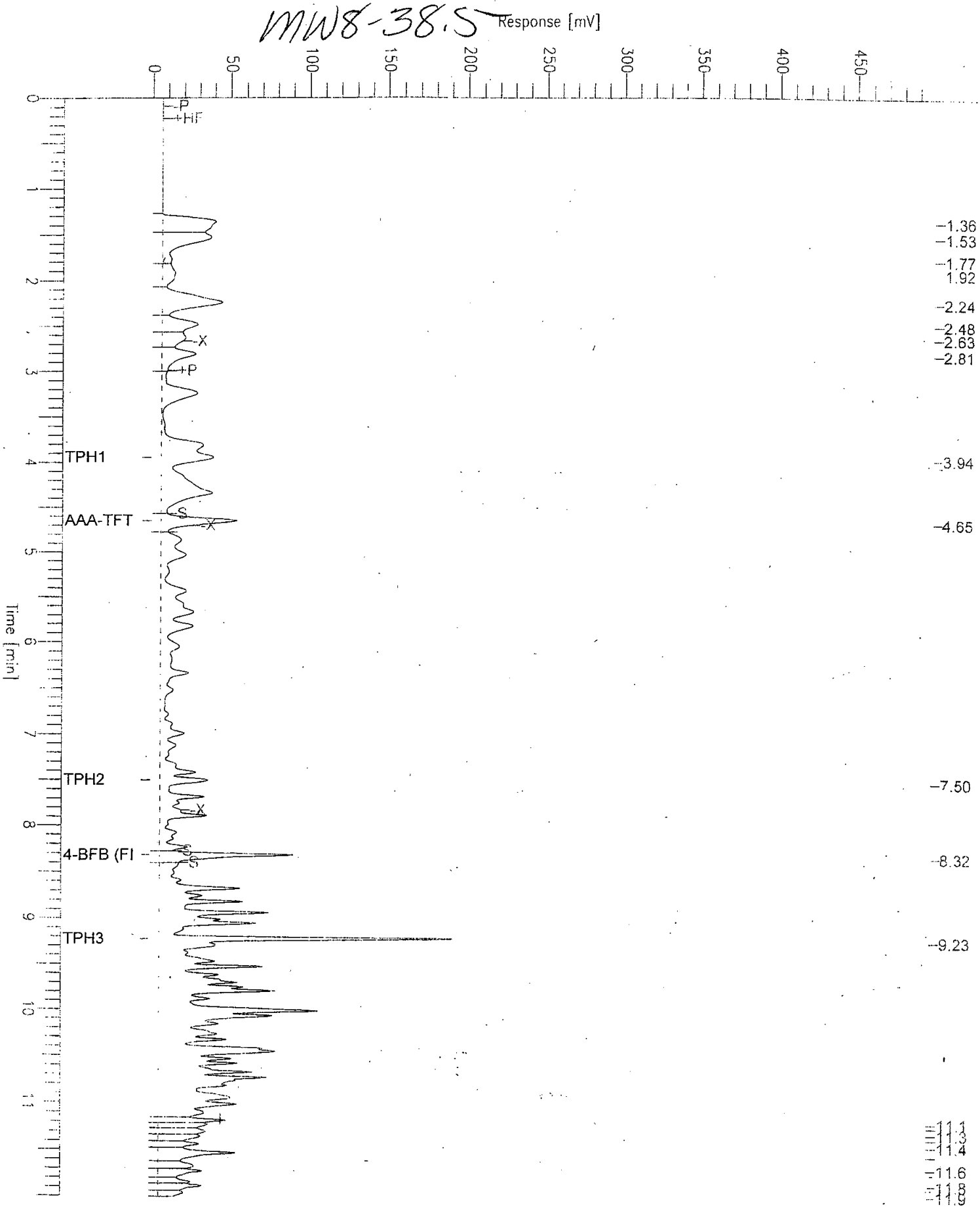


CCD0283-16
5:10/100

[redacted]

[redacted]

MW8-38.5



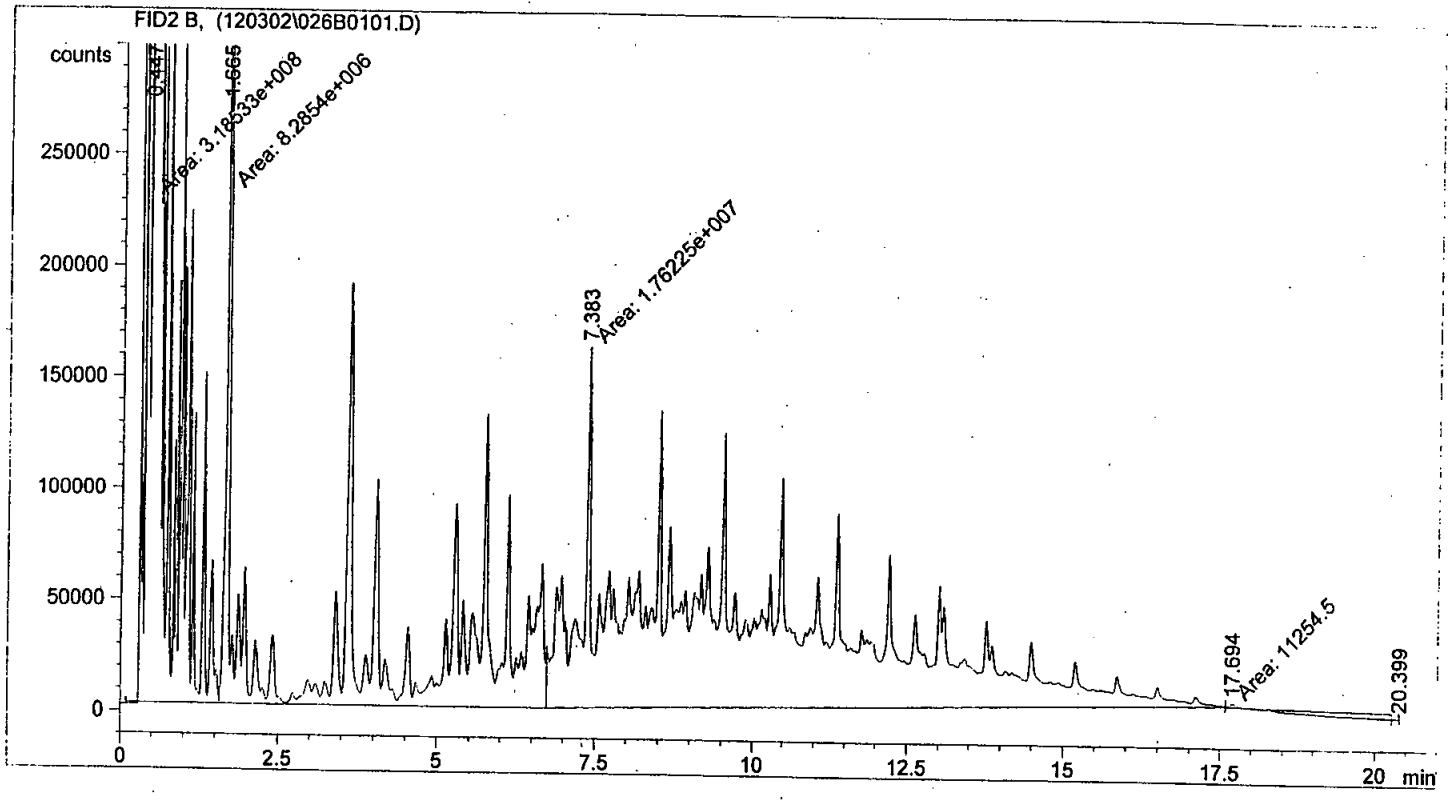
HP Lab Standards

Data File C:\HPCHEM\1\DATA\120302\026B0101.D Sample Name: std 1510/2510

Injection Date	: 12/3/2002 7:47:35 AM	Seq. Line	: 1
Sample Name	: std 1510/2510	Location	: Vial 26
Acq. Operator	: Bret Hutchinson	Inj	: 1
		Inj Volume	: 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed : 12/3/2002 2:17:22 PM by Bret Hutchinson
(modified after loading)

TPHR



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/3/2002 2:17:16 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.665	MM	8.28540e6	1.99814e-4	1655.54321		Gasoline
7.383	MM	1.76225e7	1.50895e-4	2659.14674		Diesel
17.694	MM	1.12545e4	1.52875e-4	1.72053		Oil Range

Totals : 4316.41048

Results obtained with enhanced integrator!

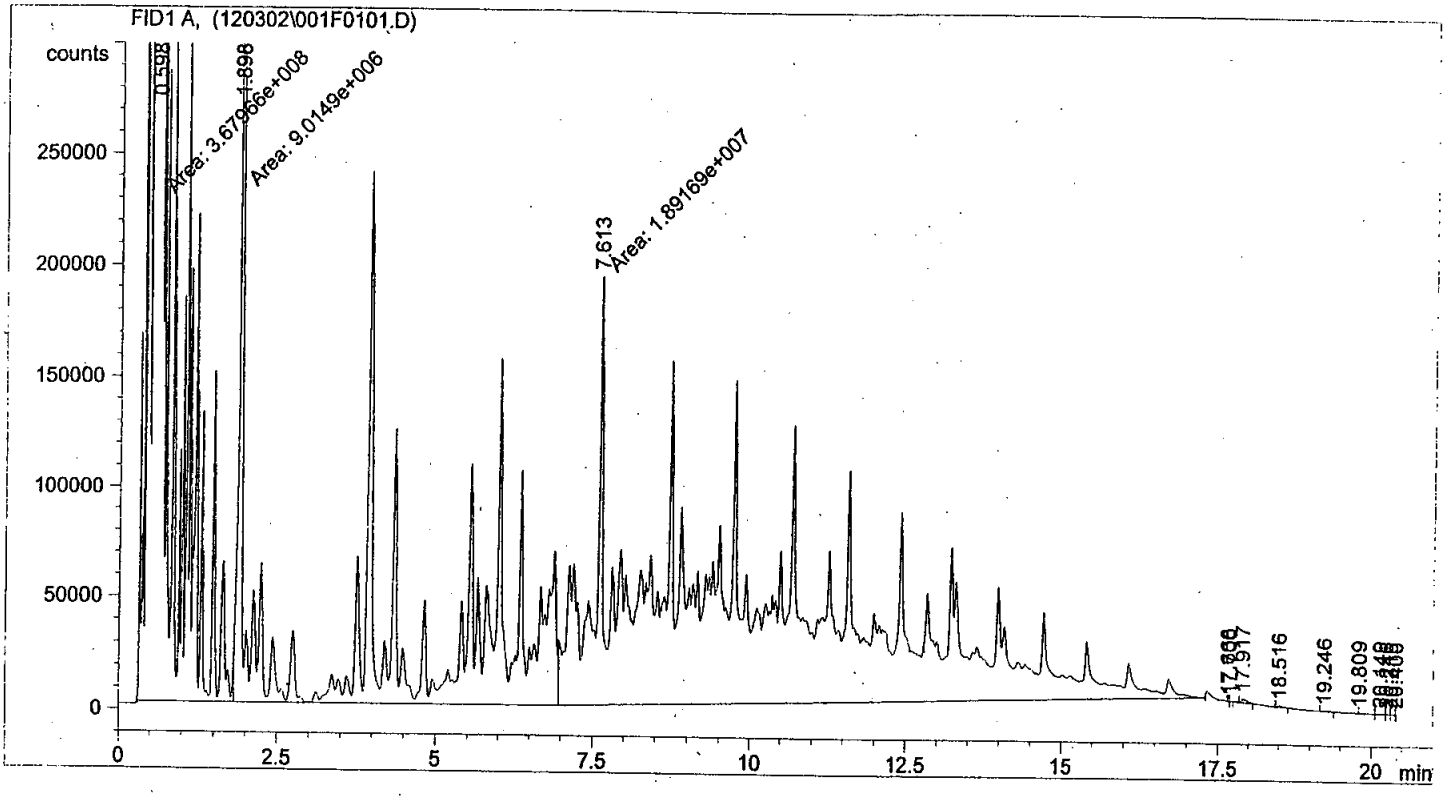
*** End of Report ***

Data File C:\HPCHEM\1\DATA\120302\001F0101.D Sample Name: std 1510/2510

Injection Date : 12/3/2002 7:47:35 AM Seq. Line : 1
Sample Name : std 1510/2510 Location : Vial 1
Acq. Operator : Bret Hutchinson Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed : 12/3/2002 2:18:56 PM by Bret Hutchinson
(modified after loading)

TPHF



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/3/2002 2:18:54 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.898	MM	9.01490e6	1.80518e-4	1627.35141		Gasoline
7.613	MM	1.89169e7	1.42610e-4	2697.75112		Diesel
23.458		-	-	-		Oil Range

Totals : 4325.10253

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

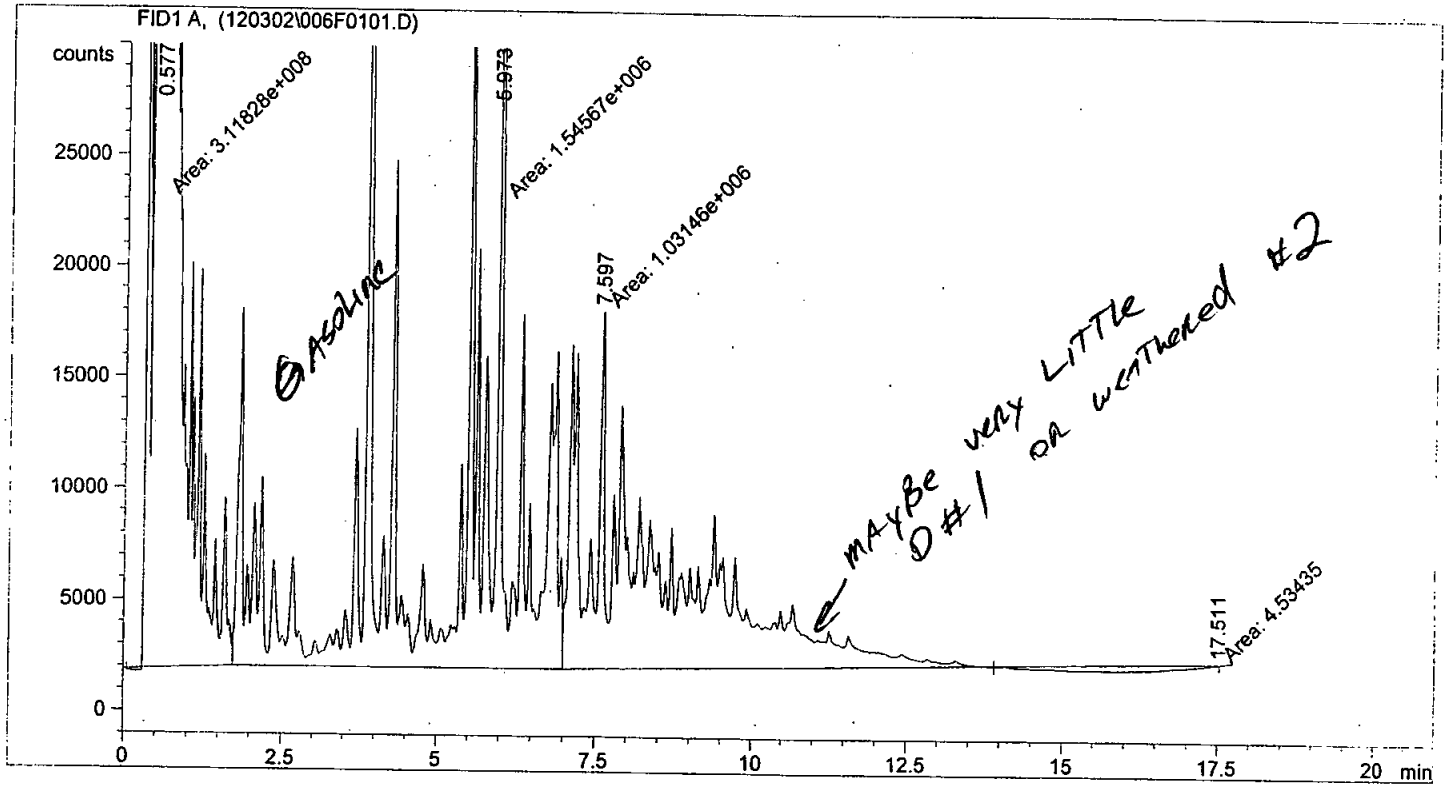
Soil Samples

Data File C:\HPCHEM\1\DATA\120302\006F0101.D

Sample Name: B1-30

```
Injection Date  : 12/3/2002 9:55:08 AM          Seq. Line :   1
Sample Name     : B1-30                        Location : Vial 6
Acq. Operator   : Bret Hutchinson                  Inj :   1
                                               Inj Volume : 3 µl
Acq. Method     : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed    : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed    : 12/3/2002 10:20:17 AM by Bret Hutchinson
                  (modified after loading)
```

TPHF



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      12/3/2002 10:20:12 AM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID1 A,

RetTime  Type      Area      Amt/Area     Amount    Grp   Name
 [min]          counts*s                 [ng/ul]
-------|------|----------|----------|----------|--|------------------
  5.973 MM      1.54567e6  1.56162e-4  241.37485     Gasoline
  7.597 MM      1.03146e6  1.34693e-4  138.92998     Diesel
 23.458             -          -           -         Oil Range

Totals :                                380.30483

 Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found
```

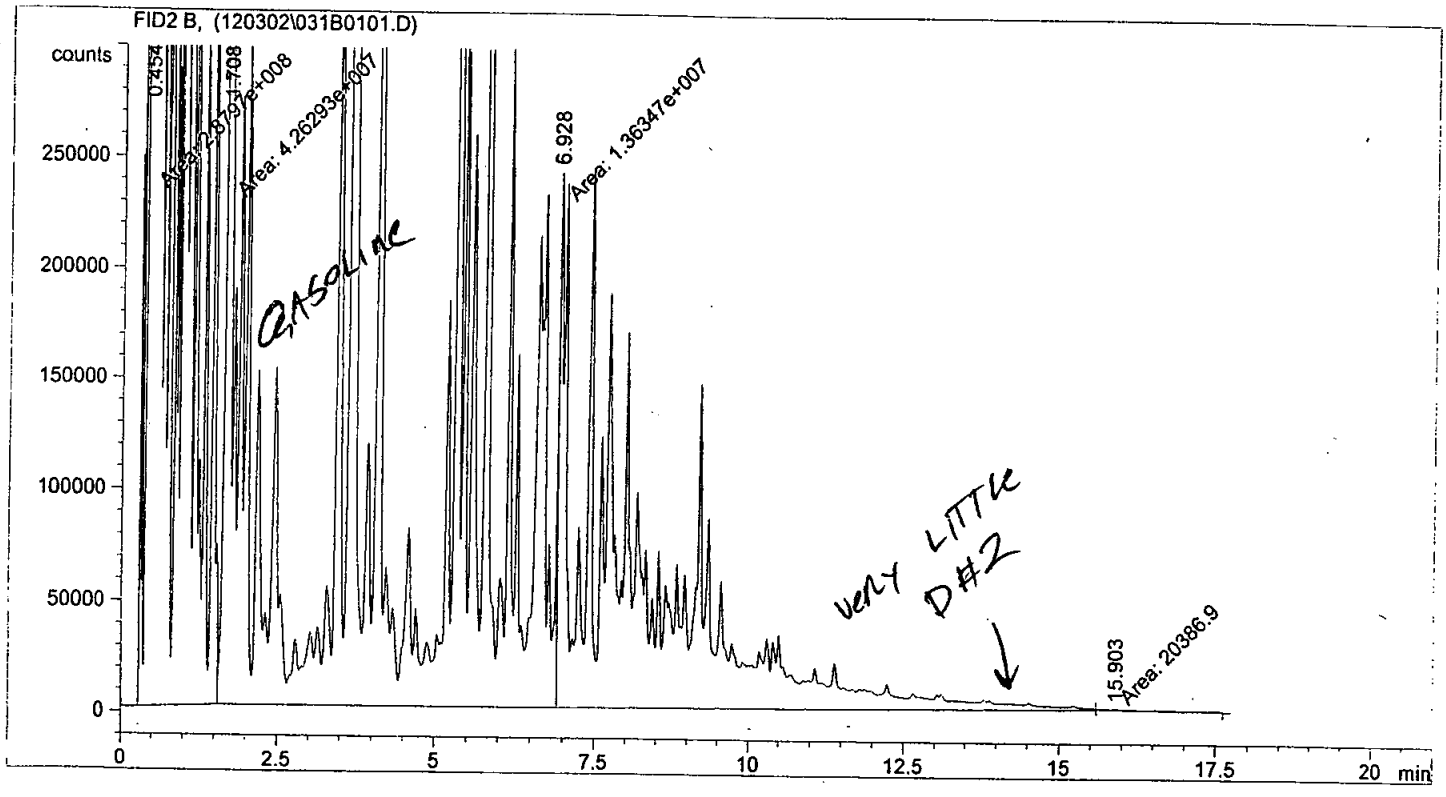
*** End of Report ***

Data File C:\HPCHEM\1\DATA\120302\031B0101.D

Sample Name: B1-32

Injection Date	: 12/3/2002 9:55:08 AM	Seq. Line	: 1
Sample Name	: B1-32	Location	: Vial 31
Acq. Operator	: Bret Hutchinson	Inj	: 1
		Inj Volume	: 3 µl
Acq. Method	: C:\HPCHEM\1\METHODS\TPHDUAL.M		
Last changed	: 8/19/2002 11:04:13 AM by Bret Hutchinson		
Analysis Method	: C:\HPCHEM\1\METHODS\TPHR0917.M		
Last changed	: 12/3/2002 10:22:05 AM by Bret Hutchinson (modified after loading)		

TPHR



External Standard Report

Sorted By	:	Signal
Calib. Data Modified	:	12/3/2002 10:21:27 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.708	MM	4.26293e7	2.02634e-4	8638.15149		Gasoline
6.928	MM	1.36347e7	1.50954e-4	2058.21663		Diesel
17.759		-	-	-		Oil Range
Totals :				1.06964e4		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

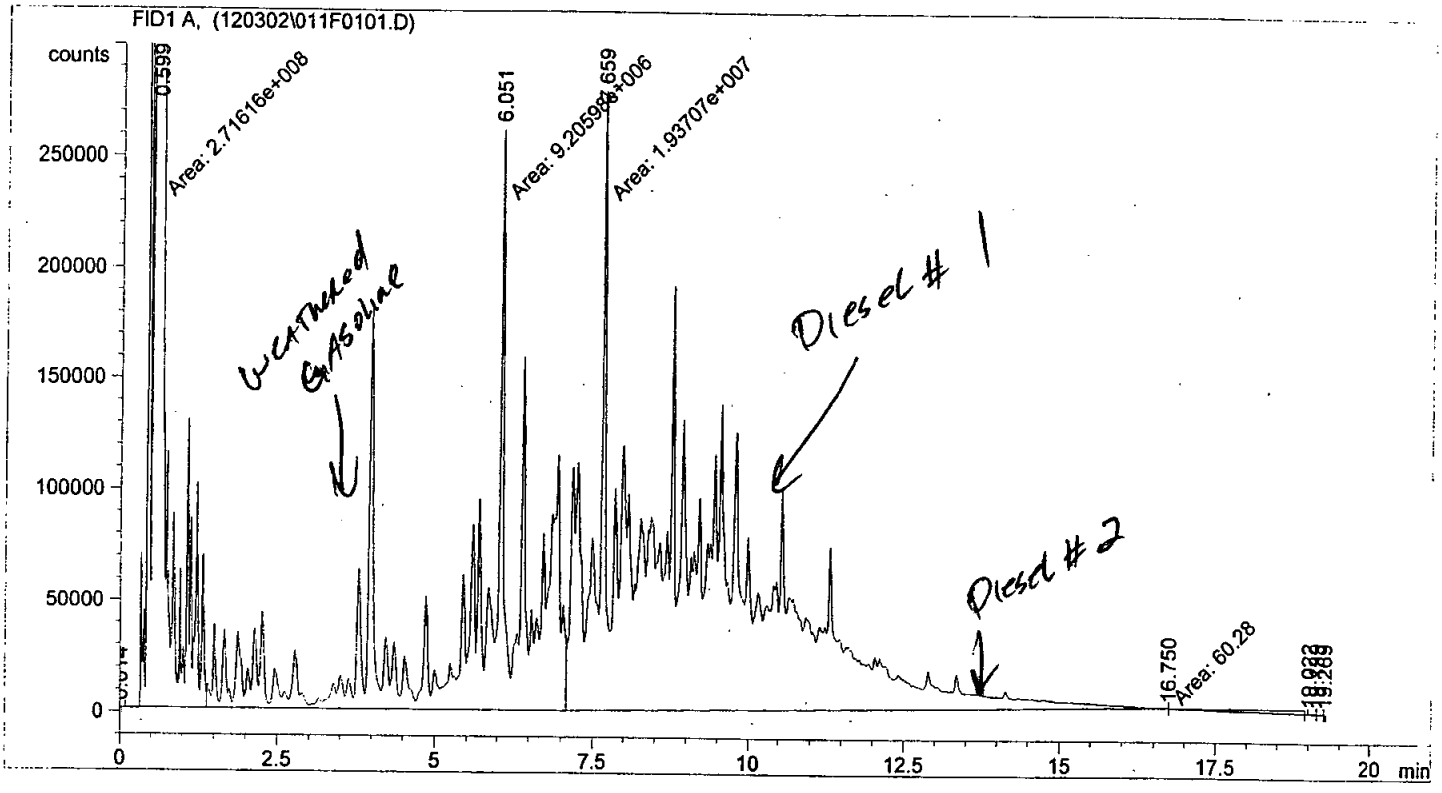
*** End of Report ***

Data File C:\HPCHEM\1\DATA\120302\011F0101.D

Sample Name: B3-30

Injection Date	: 12/3/2002 2:03:51 PM	Seq. Line	: 1
Sample Name	: B3-30	Location	: Vial 11
Acq. Operator	: Bret Hutchinson	Inj	: 1
		Inj Volume	: 3 µl
Acq. Method	: C:\HPCHEM\1\METHODS\TPHDUAL.M		
Last changed	: 8/19/2002 11:04:13 AM by Bret Hutchinson		
Analysis Method	: C:\HPCHEM\1\METHODS\TPHF0917.M		
Last changed	: 12/3/2002 2:24:34 PM by Bret Hutchinson (modified after loading)		

TPHF



External Standard Report

Sorted By	:	Signal
Calib. Data Modified	:	12/3/2002 2:24:17 PM
Multiplier	:	1.0000
Dilution	:	1.0000

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
6.051	MM	9.20598e6	1.80623e-4	1662.80916		Gasoline
7.659	MM	1.93707e7	1.42631e-4	2762.85547		Diesel
23.458		-	-	-		Oil Range
Totals :				4425.66463		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

Data File C:\HPCHEM\1\DATA\120302\036B0101.D

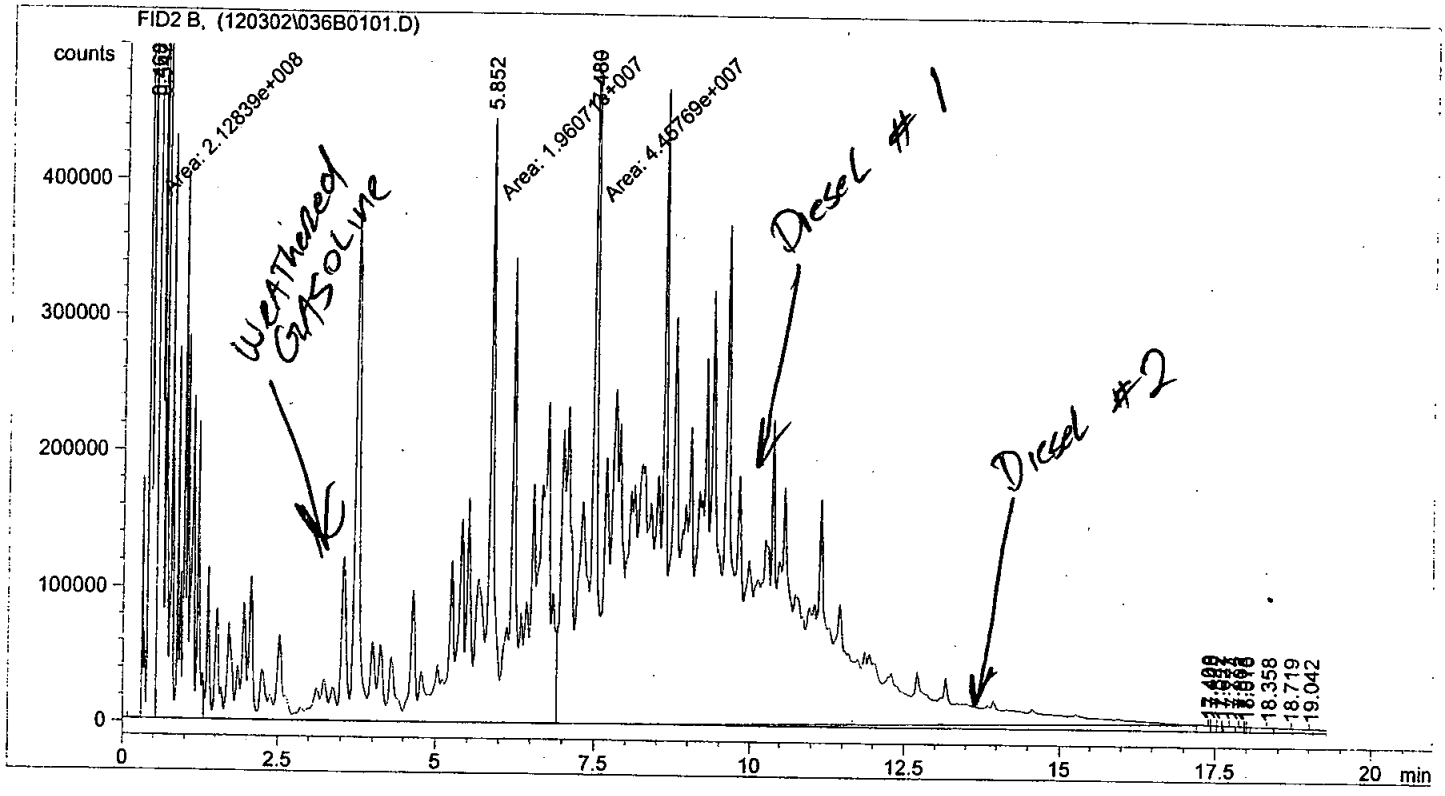
Sample Name: B3-32

Injection Date : 12/3/2002 2:03:51 PM
Sample Name : B3-32
Acq. Operator : Bret Hutchinson

Seq. Line : 1
Location : Vial 36
Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed : 12/3/2002 2:26:38 PM by Bret Hutchinson
(modified after loading)

TPHR



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/3/2002 2:26:20 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
5.852	MM	1.96071e7	2.01835e-4	3957.40759		Gasoline
7.480	MM	4.45769e7	1.50772e-4	6720.94597		Diesel
17.774	BB X	603.01892	1.52875e-4	9.21867e-2		Oil Range

Totals : 1.06784e4

Results obtained with enhanced integrator!

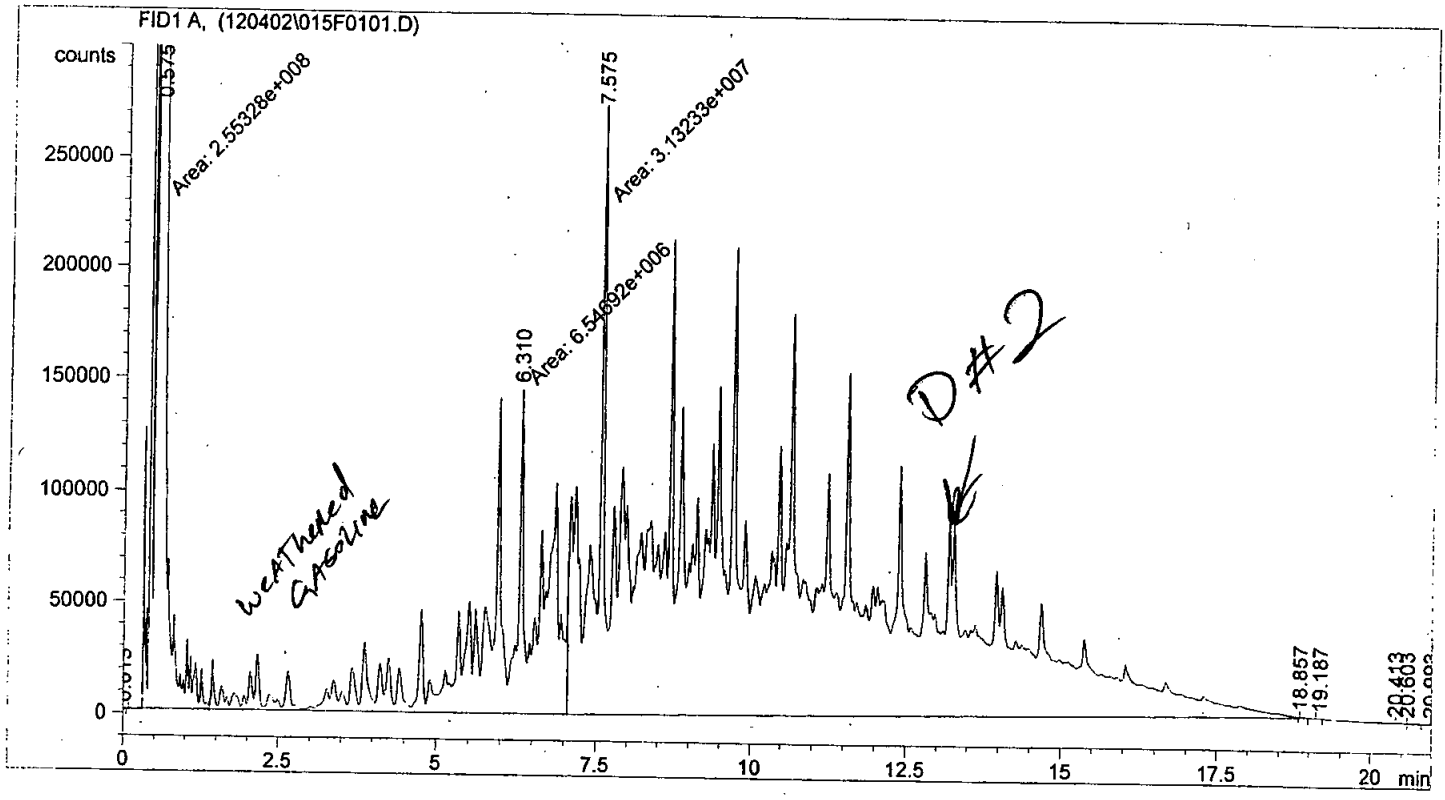
*** End of Report ***

Data File C:\HPCHEM\1\DATA\120402\015F0101.D

Sample Name: B4-30

```
Injection Date  : 12/4/2002 2:44:45 PM          Seq. Line :   1
Sample Name     : B4-30                        Location : Vial 15
Acq. Operator   : Bret Hutchinson                  Inj :   1
                                               Inj Volume : 3 µl
Acq. Method     : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed    : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed    : 12/4/2002 3:19:42 PM by Bret Hutchinson
                  (modified after loading)
```

TPHF



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      12/4/2002 3:06:47 PM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID1 A,
```

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
6.310	MM	6.54692e6	1.78618e-4	1169.39885		Gasoline
7.575	MM	3.13233e7	1.42953e-4	4477.75564		Diesel
23.458		-	-	-		Oil Range

Totals : 5647.15449

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

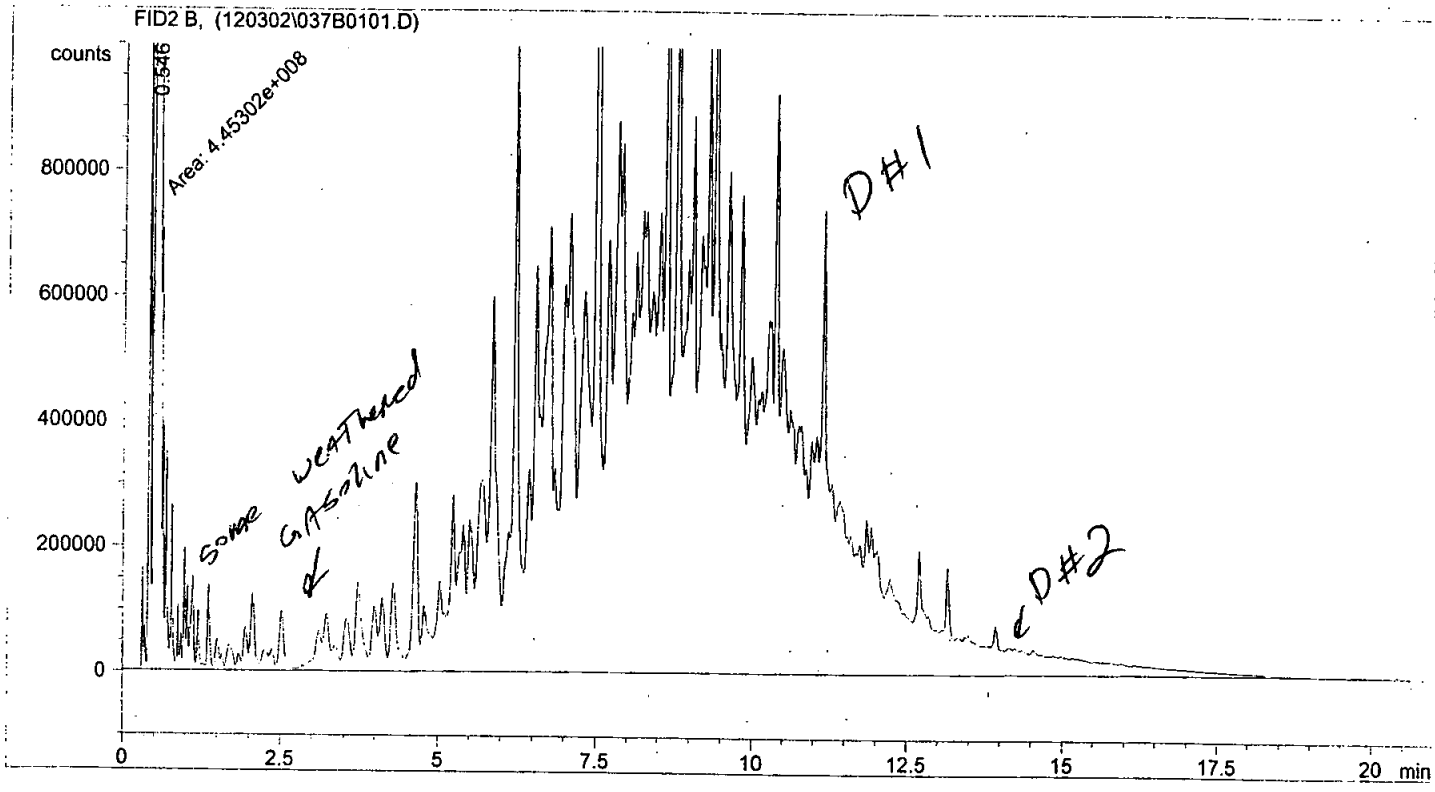
*** End of Report ***

Data File C:\HPCHEM\1\DATA\120302\037B0101.D

Sample Name: B4-32

```
Injection Date  : 12/3/2002 3:31:23 PM          Seq. Line :   1
Sample Name     : B4-32                        Location : Vial 37
Acq. Operator   : Bret Hutchinson                  Inj :   1
                                               Inj Volume : 3 µl
Acq. Method     : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed    : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed    : 12/19/2002 1:19:43 PM by Bret Hutchinson
                  (modified after loading)
```

TPHR



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      11/20/2002 7:45:07 AM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID2 B,

RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          counts*s                [ng/ul]
-------|------|----------|----------|----------|--|------------------
  1.597          -           -           -          Gasoline
  7.304          -           -           -          Diesel
 17.759          -           -           -          Oil Range

Totals :                                 0.00000

 Results obtained with enhanced integrator!
1 Warnings or Errors :

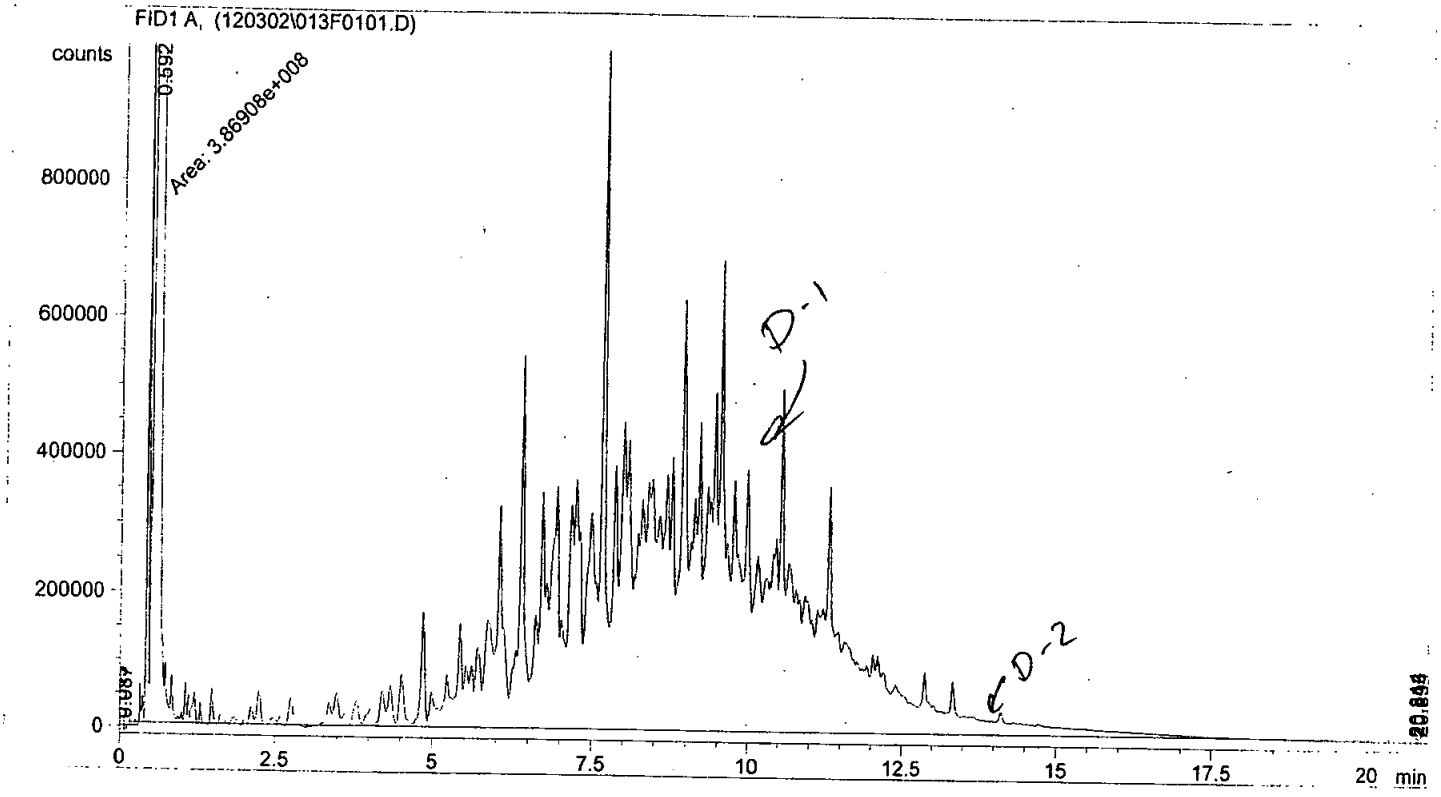
Warning : Calibrated compound(s) not found
```

Data File C:\HPCHEM\1\DATA\120302\013F0101.D

Sample Name: B4-34

```
Injection Date  : 12/3/2002 3:31:23 PM          Seq. Line :   1
Sample Name     : B4-34                        Location : Vial 13
Acq. Operator   : Bret Hutchinson                  Inj :   1
                                               Inj Volume : 3 µl
Acq. Method     : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed    : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed    : 12/19/2002 1:20:32 PM by Bret Hutchinson
                  (modified after loading)
```

TPHF



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      12/17/2002 8:43:55 AM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID1 A,

RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          counts*s                [ng/ul]
-------|------|----------|----------|----------|--|------------------
  1.696          -           -           -          Gasoline
  7.424          -           -           -          Diesel
 23.458          -           -           -          Oil Range

Totals :                                  0.00000

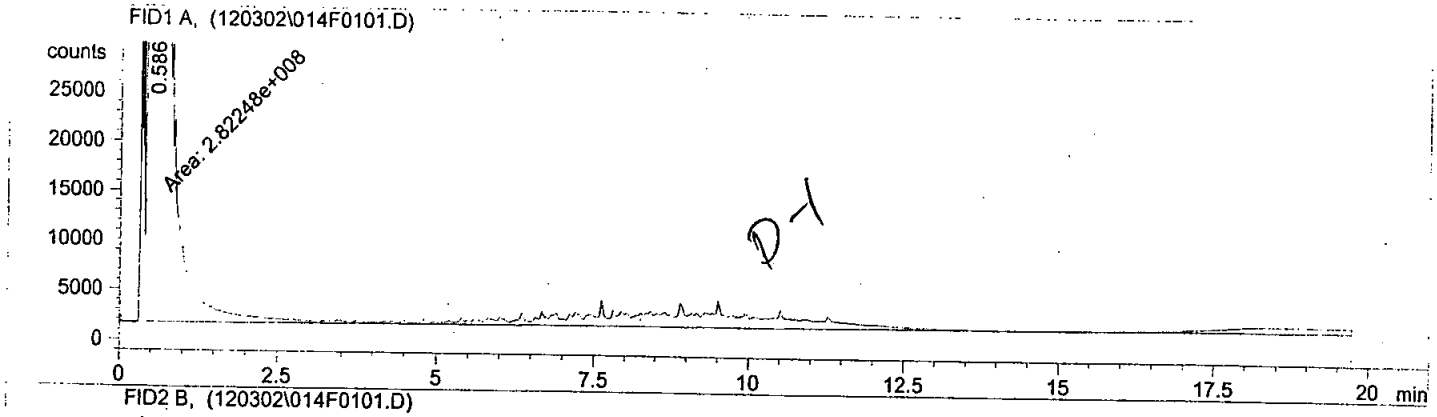
 Results obtained with enhanced integrator!
1 Warnings or Errors :

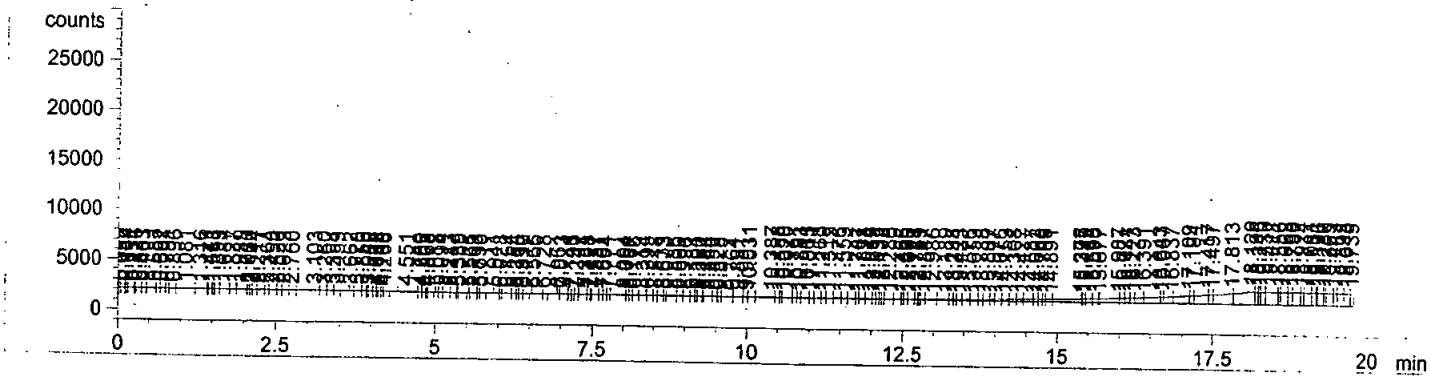
Warning : Calibrated compound(s) not found
```

Data File C:\HPCHEM\1\DATA\120302\014F0101.D

Sample Name: B4-36

```
Injection Date  : 12/3/2002 4:07:28 PM          Seq. Line :   1
Sample Name     : B4-36                        Location : Vial 14
Acq. Operator   : Bret Hutchinson                  Inj :   1
                                               Inj Volume : 3 µl
Acq. Method     : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed    : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed    : 12/19/2002 1:21:07 PM by Bret Hutchinson
                  (modified after loading)
TPHF
```





External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      12/17/2002 8:43:55 AM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID1 A,
```

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.696		-	-	-		Gasoline
7.424		-	-	-		Diesel
23.458		-	-	-		Oil Range

```
Totals :                                  0.00000

 Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found
```

Data File C:\HPCHEM\1\DATA\120402\029B0101.D

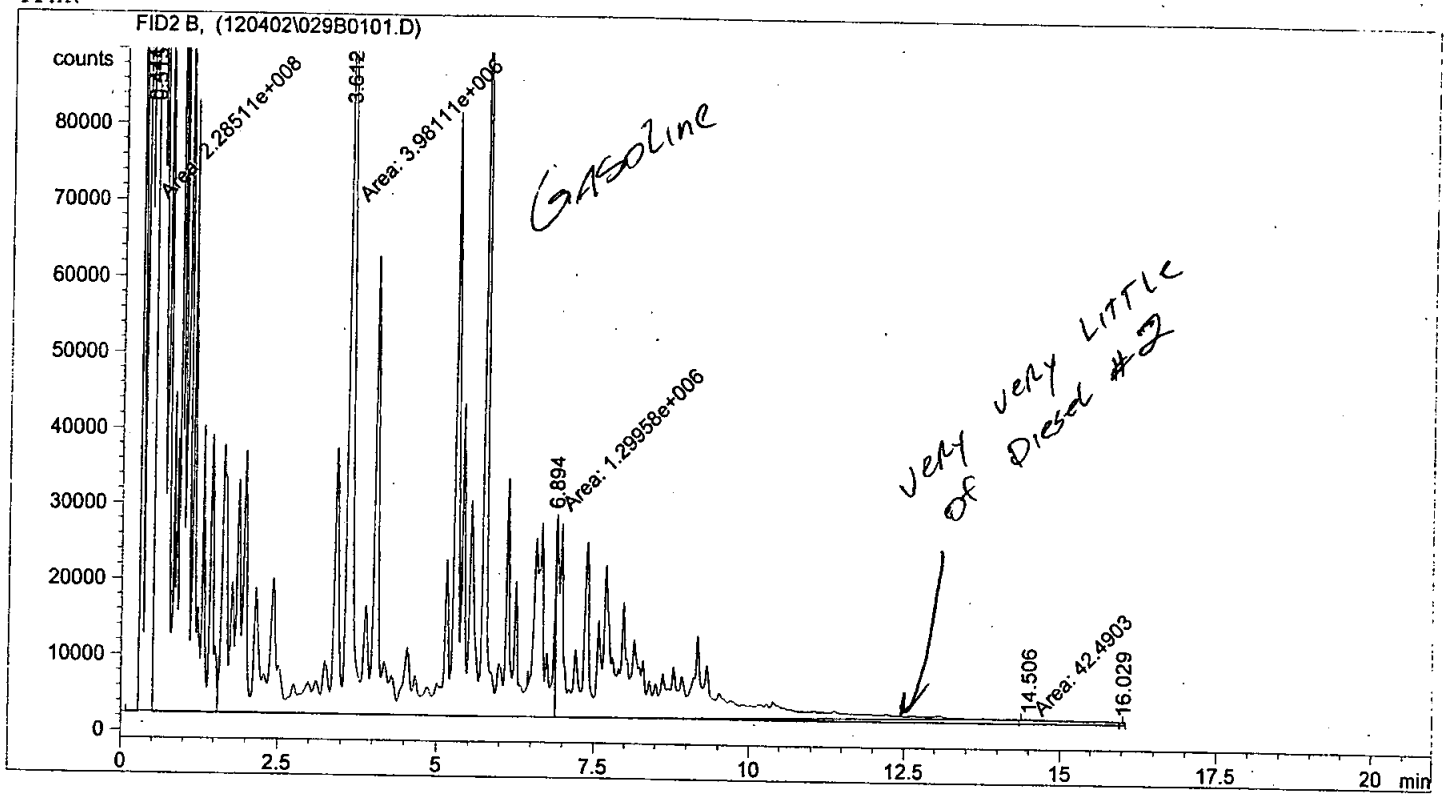
Sample Name: B6-32

Injection Date : 12/4/2002 10:01:13 AM
Sample Name : B6-32
Acq. Operator : Bret Hutchinson

Seq. Line : 1
Location : Vial 29
Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed : 12/4/2002 10:58:37 AM by Bret Hutchinson
(modified after loading)

TPHR



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/4/2002 10:19:31 AM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
3.612	MM	3.98111e6	1.96030e-4	780.41804		Gasoline
6.894	MM	1.29958e6	1.52875e-4	198.67419		Diesel
17.759		-	-	-		Oil Range

Totals : 979.09223

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

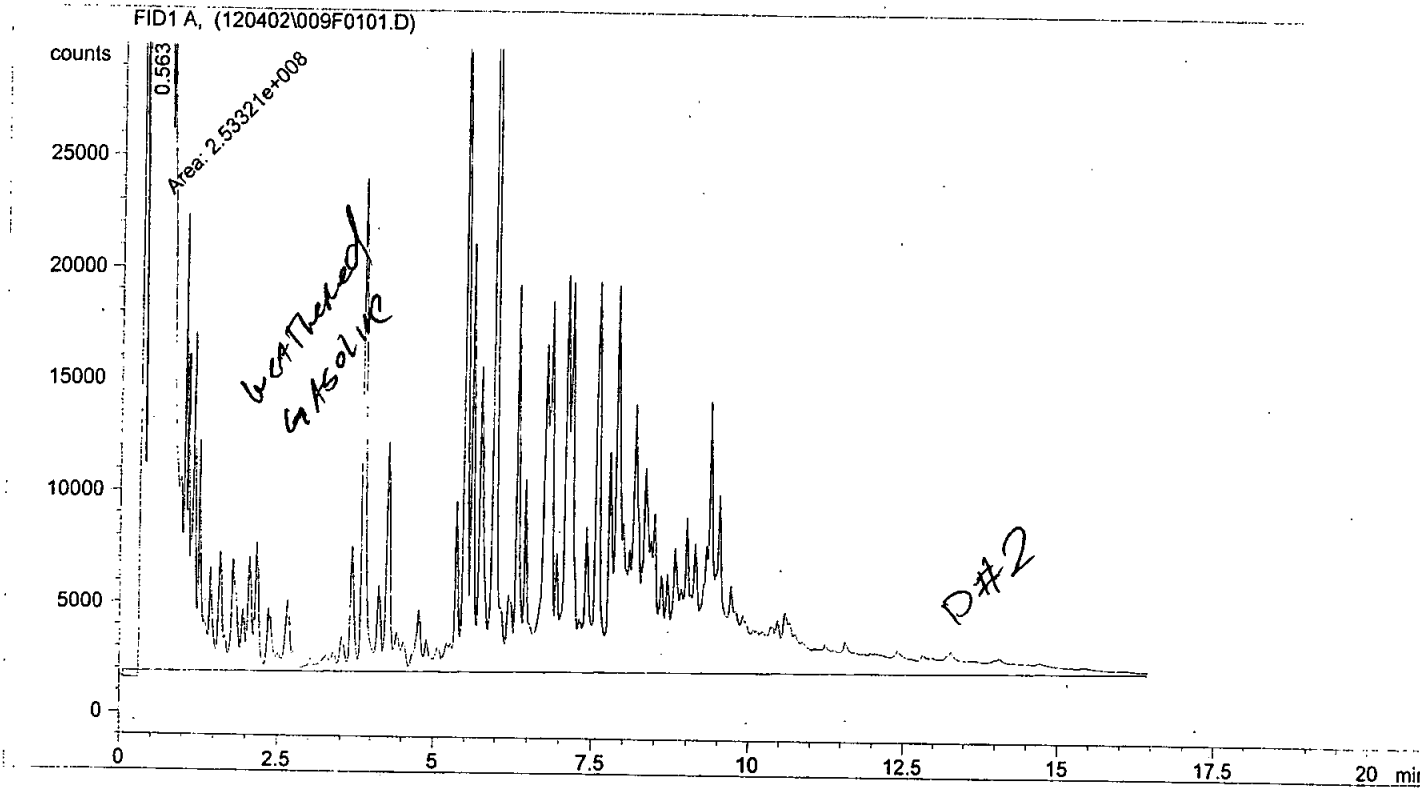
*** End of Report ***

Injection Date : 12/4/2002 11:46:33 AM
Sample Name : B6-33
Acq. Operator : Bret Hutchinson

Seq. Line : 1
Location : Vial 9
Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed : 12/19/2002 1:21:07 PM by Bret Hutchinson
(modified after loading)

TPHF



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/17/2002 8:43:55 AM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.696		-	-	-		Gasoline
7.424		-	-	-		Diesel
23.458		-	-	-		Oil Range

Totals : 0.00000

Results obtained with enhanced integrator!
1 Warnings or Errors :

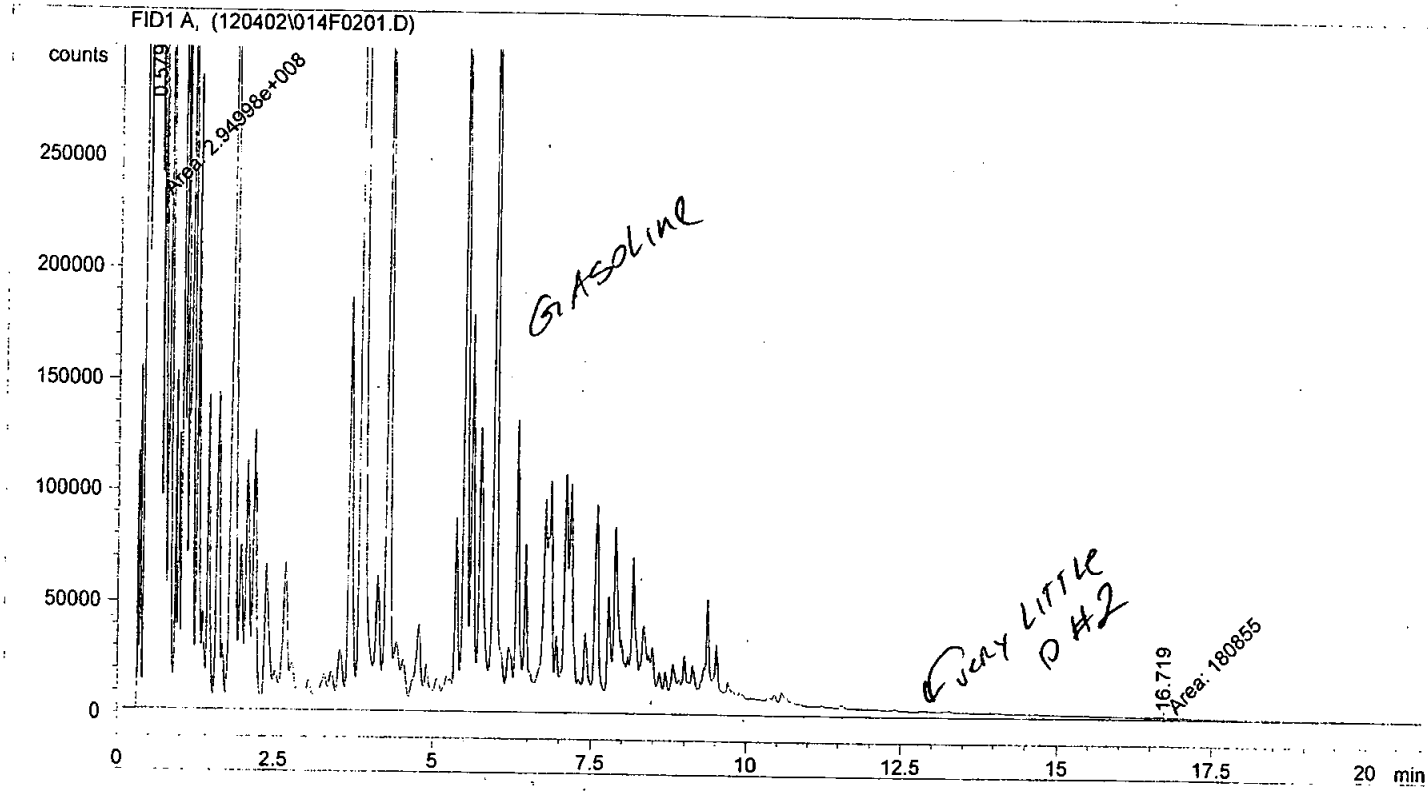
Warning : Calibrated compound(s) not found

Data File C:\HPCHEM\1\DATA\120402\014F0201.D

Sample Name: B8-32

```
Injection Date   : 12/4/2002 2:15:59 PM          Seq. Line :   2
Sample Name      : B8-32                         Location : Vial 14
Acq. Operator    : Bret Hutchinson                   Inj :   1
                                                 Inj Volume : 3 µl
Acq. Method      : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed     : 8/19/2002 9:56:44 AM by Bret Hutchinson
Analysis Method  : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed     : 12/19/2002 1:22:24 PM by Bret Hutchinson
                   (modified after loading)
```

TPHF



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      12/17/2002 8:43:55 AM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID1 A,

RetTime  Type     Area       Amt/Area    Amount    Grp   Name
 [min]          counts*s                 [ng/ul]
-------|------|----------|----------|----------|--|------------------
  1.696          -          -          -          Gasoline
  7.424          -          -          -          Diesel
 23.458          -          -          -          Oil Range

Totals :                                 0.00000

 Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found
```

Data File C:\HPCHEM\1\DATA\120602\031B0101.D

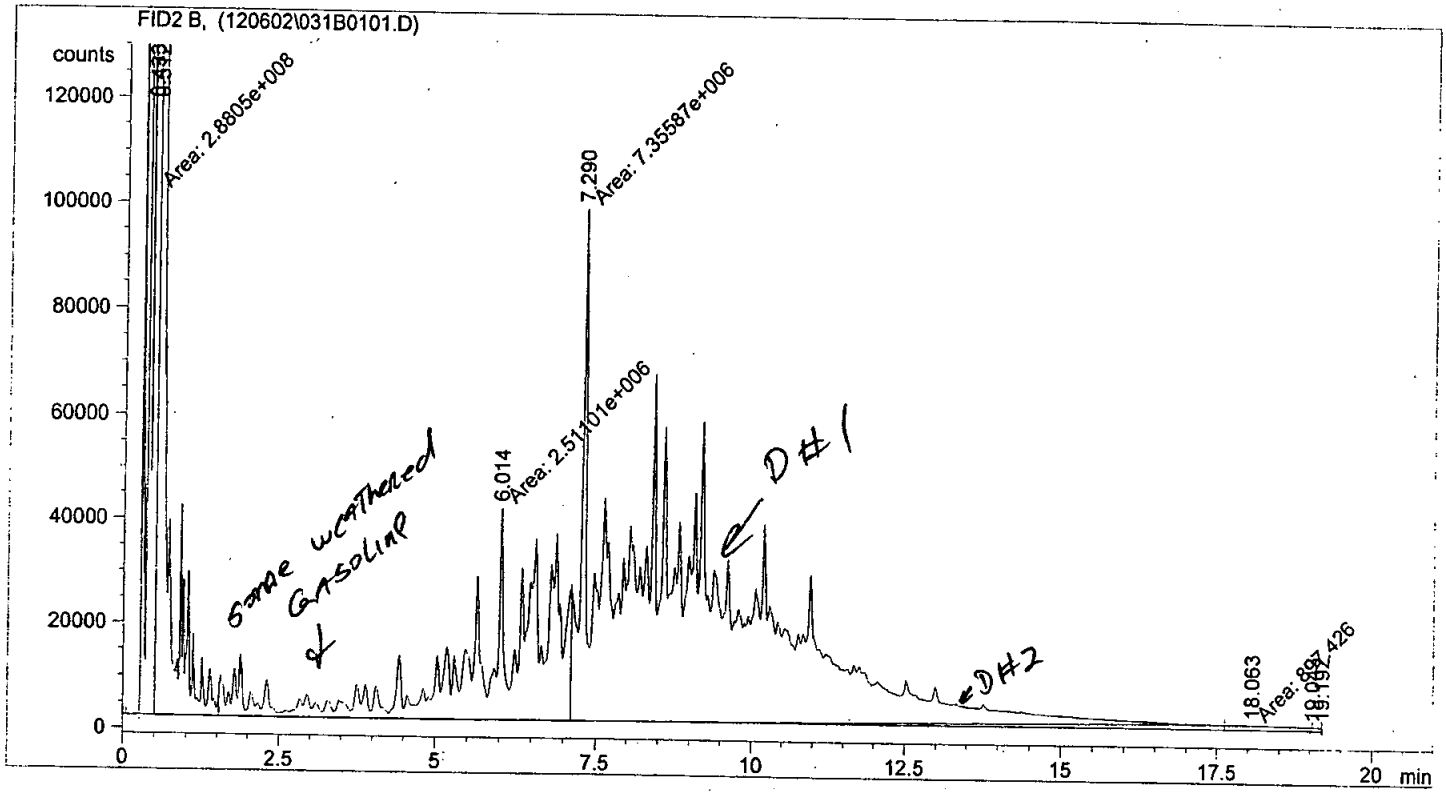
Sample Name: B9-31

Injection Date : 12/6/2002 9:31:46 AM
Sample Name : B9-31
Acq. Operator : Bret Hutchinson

Seq. Line : 1
Location : Vial 31
Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed : 12/6/2002 11:41:42 AM by Bret Hutchinson
(modified after loading)

TPHR



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/6/2002 11:41:37 AM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
6.014	MM	2.51101e6	1.91766e-4	481.52623		Gasoline
7.290	MM	7.35586e6	1.51179e-4	1112.05183		Diesel
18.063	MM	897.42554	1.52875e-4	1.37194e-1		Oil Range

Totals : 1593.71525

Results obtained with enhanced integrator!

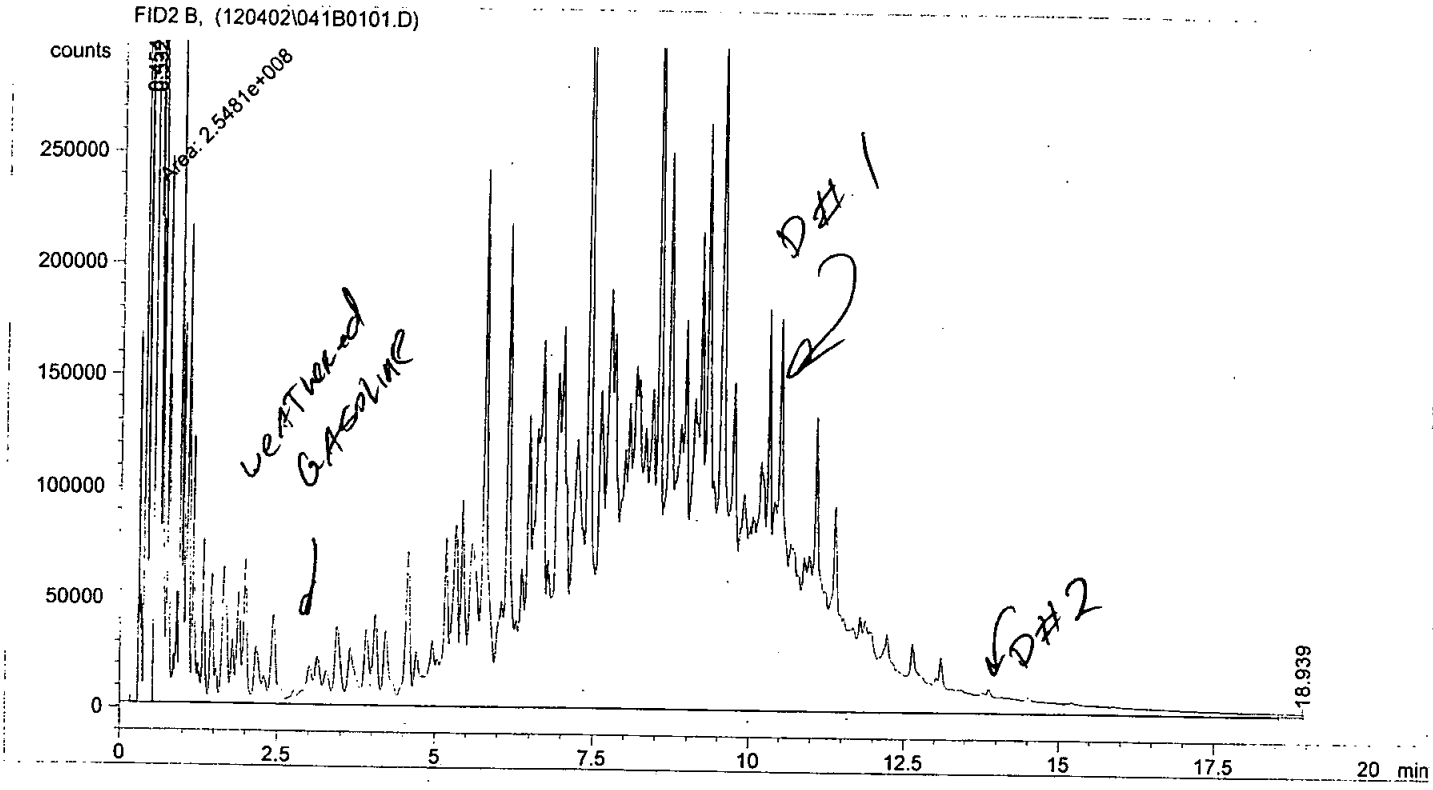
*** End of Report ***

Data File C:\HPCHEM\1\DATA\120402\041B0101.D

Sample Name: B9-33'

```
Injection Date   : 12/4/2002 3:44:39 PM          Seq. Line :   1
Sample Name      : B9-33'                        Location : Vial 41
Acq. Operator    : Bret Hutchinson                   Inj :   1
                                                 Inj Volume : 3 µl
Acq. Method      : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed     : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method  : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed     : 12/19/2002 1:23:07 PM by Bret Hutchinson
                   (modified after loading)
```

TPHR



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      11/20/2002 7:45:07 AM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID2 B,
```

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.597		-	-	-		Gasoline
7.304		-	-	-		Diesel
17.759		-	-	-		Oil Range

```
Totals :                                  0.00000

 Results obtained with enhanced integrator!
1 Warnings or Errors :

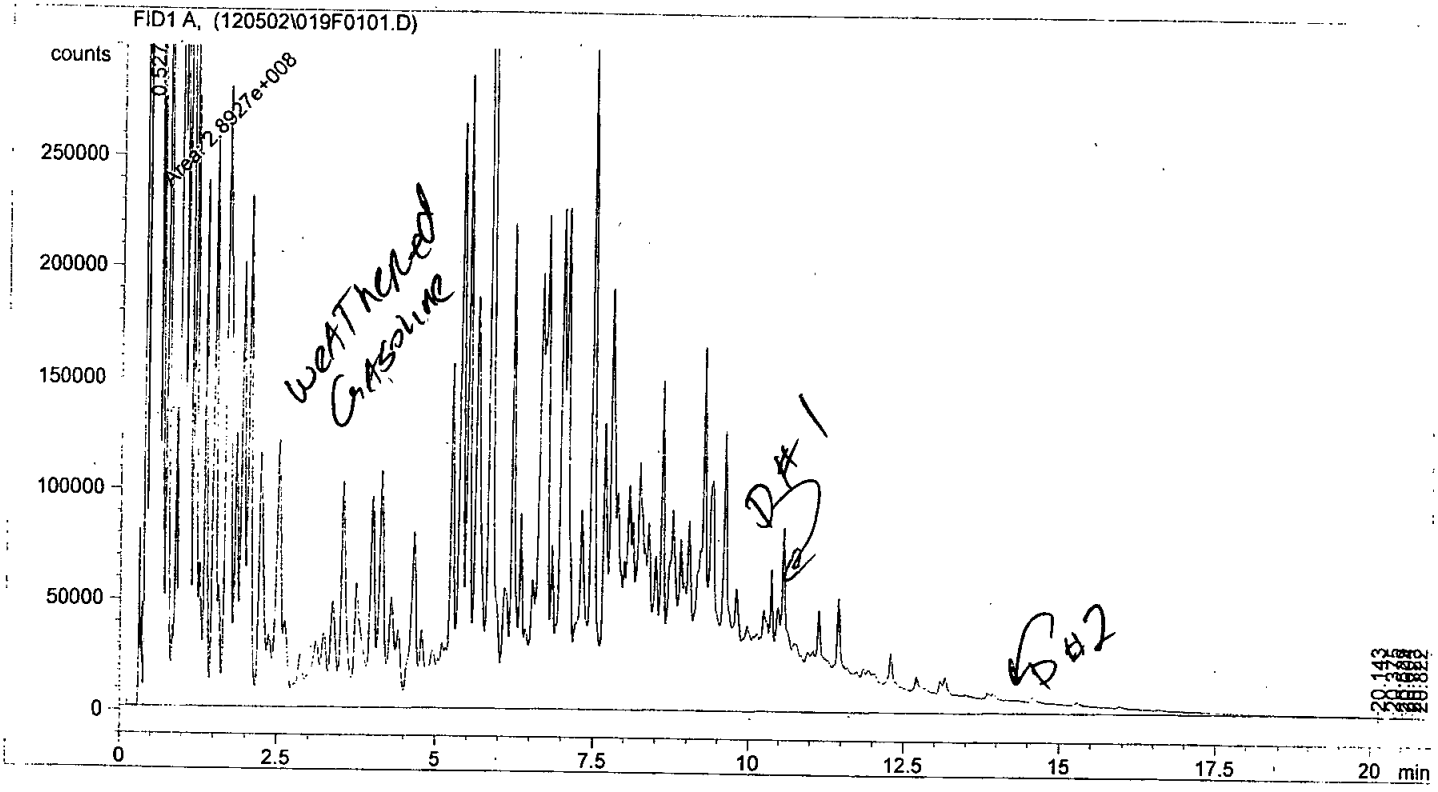
Warning : Calibrated compound(s) not found
```

Injection Date : 12/5/2002 2:25:39 PM
Sample Name : B12-34
Acq. Operator : Bret Hutchinson

Seq. Line : 1
Location : Vial 19
Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed : 12/19/2002 1:24:54 PM by Bret Hutchinson
(modified after loading)

TPHF



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/17/2002 8:43:55 AM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.696		-	-	-		Gasoline
7.424		-	-	-		Diesel
23.458		-	-	-		Oil Range

Totals : 0.00000

Results obtained with enhanced integrator!
1 Warnings or Errors :

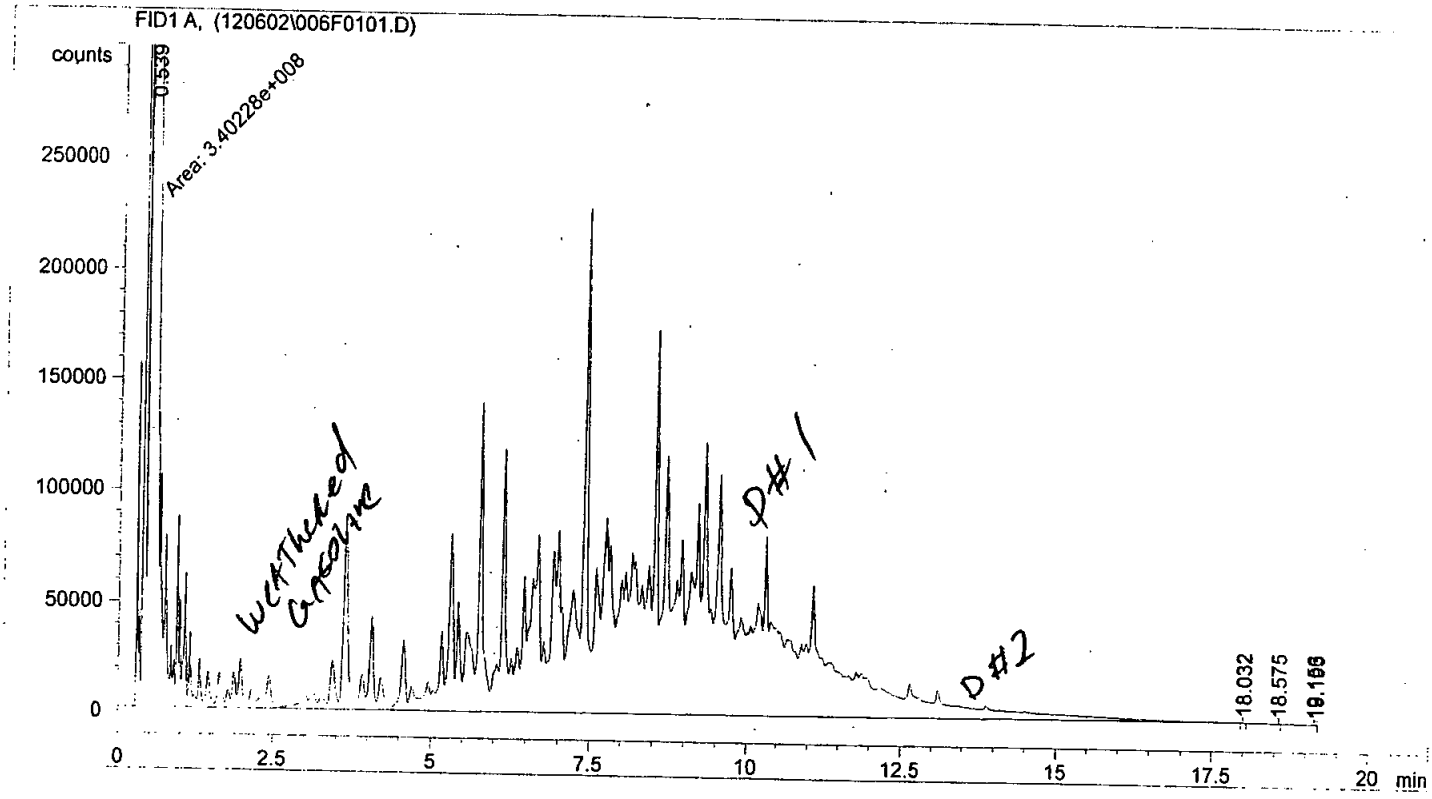
Warning : Calibrated compound(s) not found

Data File C:\HPCHEM\1\DATA\120602\006F0101.D

Sample Name: B13-30

Injection Date	: 12/6/2002 9:31:46 AM	Seq. Line	: 1
Sample Name	: B13-30	Location	: Vial 6
Acq. Operator	: Bret Hutchinson	Inj	: 1
		Inj Volume	: 3 µl
Acq. Method	: C:\HPCHEM\1\METHODS\TPHDUAL.M		
Last changed	: 8/19/2002 11:04:13 AM by Bret Hutchinson		
Analysis Method	: C:\HPCHEM\1\METHODS\TPHF0917.M		
Last changed	: 12/19/2002 1:24:54 PM by Bret Hutchinson (modified after loading)		

TPHF



External Standard Report

Sorted By	:	Signal
Calib. Data Modified	:	12/17/2002 8:43:55 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.696		-	-	-		Gasoline
7.424		-	-	-		Diesel
23.458		-	-	-		Oil Range

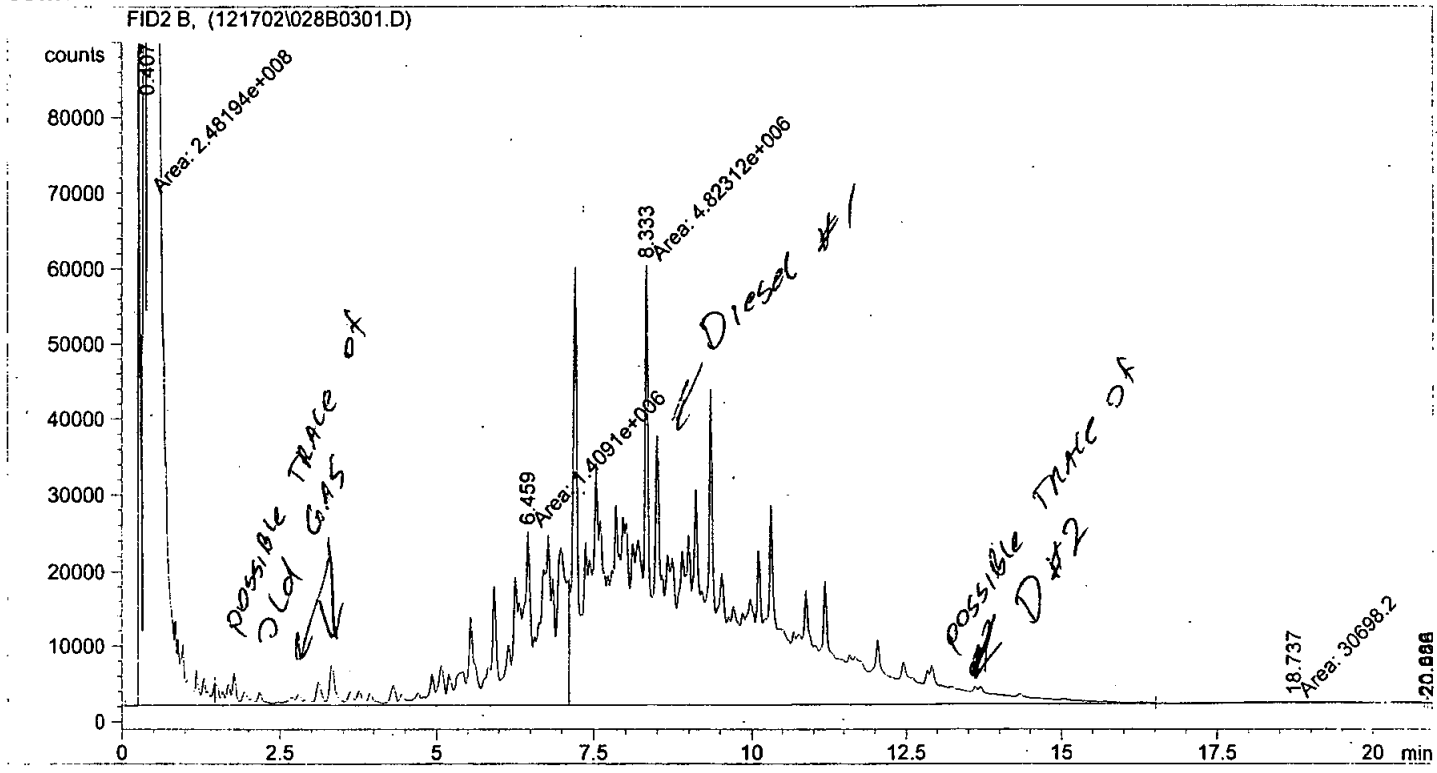
Totals : 0.00000

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

```
Injection Date  : 12/17/2002 8:08:08 AM          Seq. Line :   3
Sample Name     : B14-25                          Location : Vial 28
Acq. Operator   : Bret Hutchinson                     Inj :   1
                                                Inj Volume : 3 µl
Acq. Method     : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed    : 8/19/2002 9:56:44 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed    : 12/17/2002 8:47:45 AM by Bret Hutchinson
                  (modified after loading)
```

TPHR



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      12/17/2002 8:47:41 AM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID2 B,

RetTime  Type     Area       Amt/Area    Amount    Grp   Name
 [min]          counts*s                 [ng/ul]
-------|------|----------|----------|----------|--|------------------
  6.459 MM     1.40910e6  1.82735e-4  257.49144    Gasoline
  8.333 MM     4.82312e6  1.51435e-4  730.38839    Diesel
 17.759            -          -           -        Oil Range

Totals :                                987.87983

 Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found
```

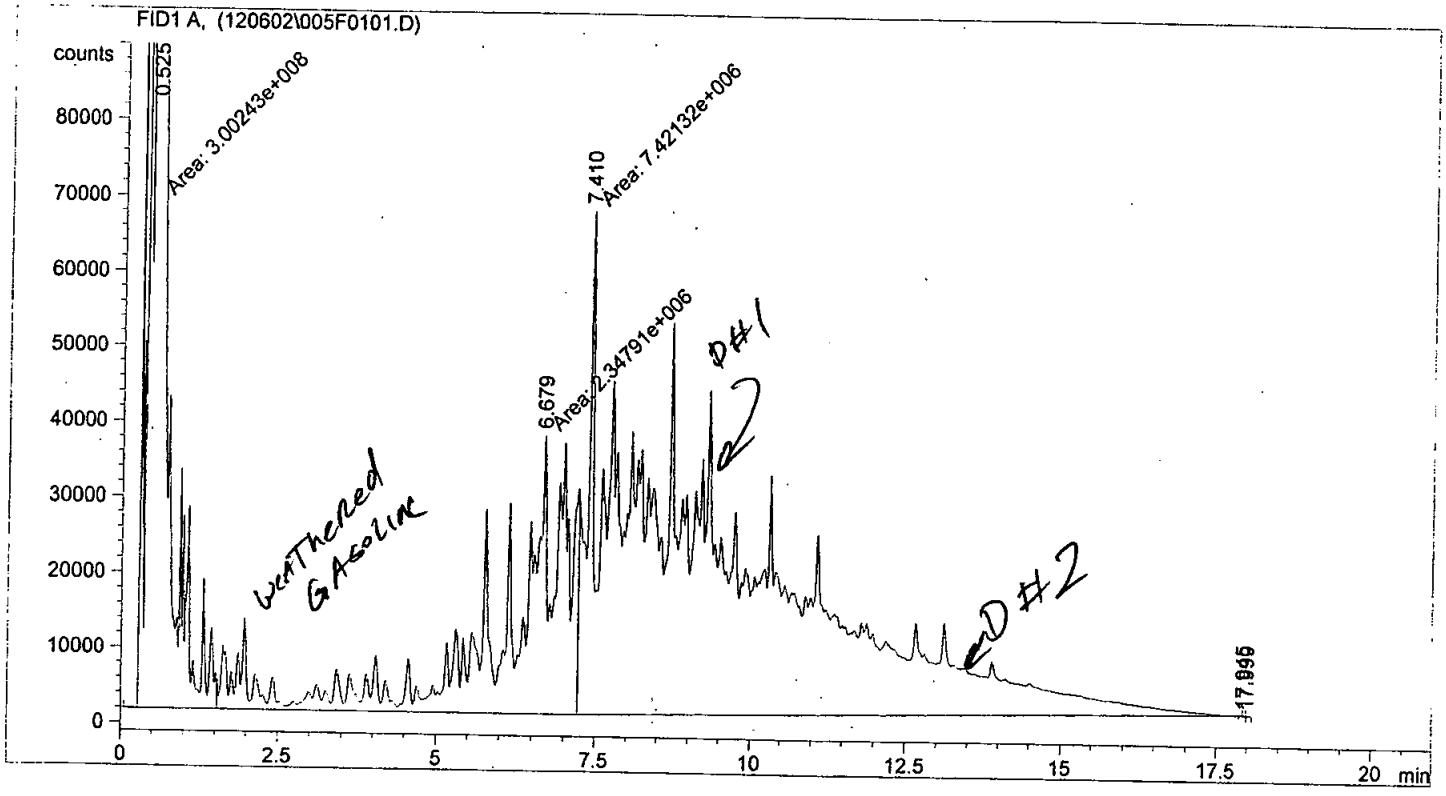
*** End of Report ***

Data File C:\HPCHEM\1\DATA\12[redacted]02\005F0101.D

Sample Name: B14-30

Injection Date	: 12/6/2002 9:09:56 AM	Seq. Line	: 1
Sample Name	: B14-30	Location	: Vial 5
Acq. Operator	: Bret Hutchinson	Inj	: 1
		Inj Volume	: 3 µl
Acq. Method	: C:\HPCHEM\1\METHODS\TPHDUAL.M		
Last changed	: 8/19/2002 11:04:13 AM by Bret Hutchinson		
Analysis Method	: C:\HPCHEM\1\METHODS\TPHF0917.M		
Last changed	: 12/6/2002 9:30:21 AM by Bret Hutchinson (modified after loading)		

TPHF



External Standard Report

Sorted By	:	Signal
Calib. Data Modified	:	12/6/2002 9:30:08 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
6.679	MM	2.34791e6	1.66206e-4	390.23764		Gasoline
7.410	MM	7.42132e6	1.41270e-4	1048.41097		Diesel
23.458		-	-	-		Oil Range
Totals :				1438.64861		

Results obtained with enhanced integrator!
1 Warnings or Errors :

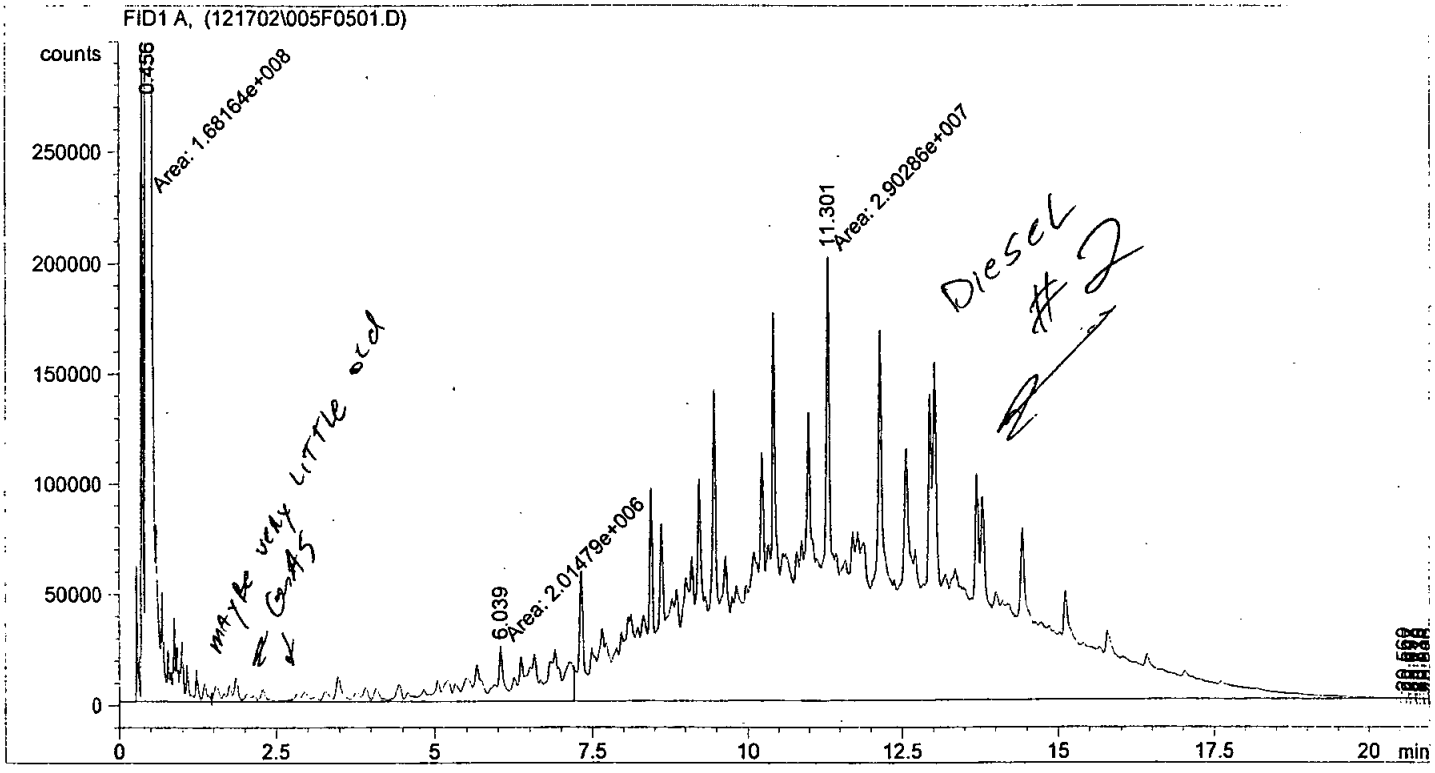
Warning : Calibrated compound(s) not found

*** End of Report ***

```
==========================================================================
Injection Date  : 12/17/2002 9:09:25 AM          Seq. Line :   5
Sample Name     : B17-25                          Location : Vial 5
Acq. Operator   : Bret Hutchinson                     Inj :   1
                                                 Inj Volume : 3 µl

Acq. Method     : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed    : 8/19/2002 9:56:44 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed    : 12/17/2002 9:33:53 AM by Bret Hutchinson
                  (modified after loading)
```

TPHF




```
==========================================================================
                        External Standard Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      12/17/2002 9:33:34 AM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID1 A,

RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          counts*s                [ng/ul]
-------|------|----------|----------|----------|--|------------------
  6.039 MM     2.01479e6  1.63007e-4  328.42472    Gasoline
 11.301 MM     2.90286e7  1.42912e-4 4148.53537    Diesel
 23.458           -          -          -          Oil Range

Totals :                               4476.96009

 Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========================================================================
                          *** End of Report ***
```

Data File C:\HPCHEM\1\DATA\120902\028B0101.D

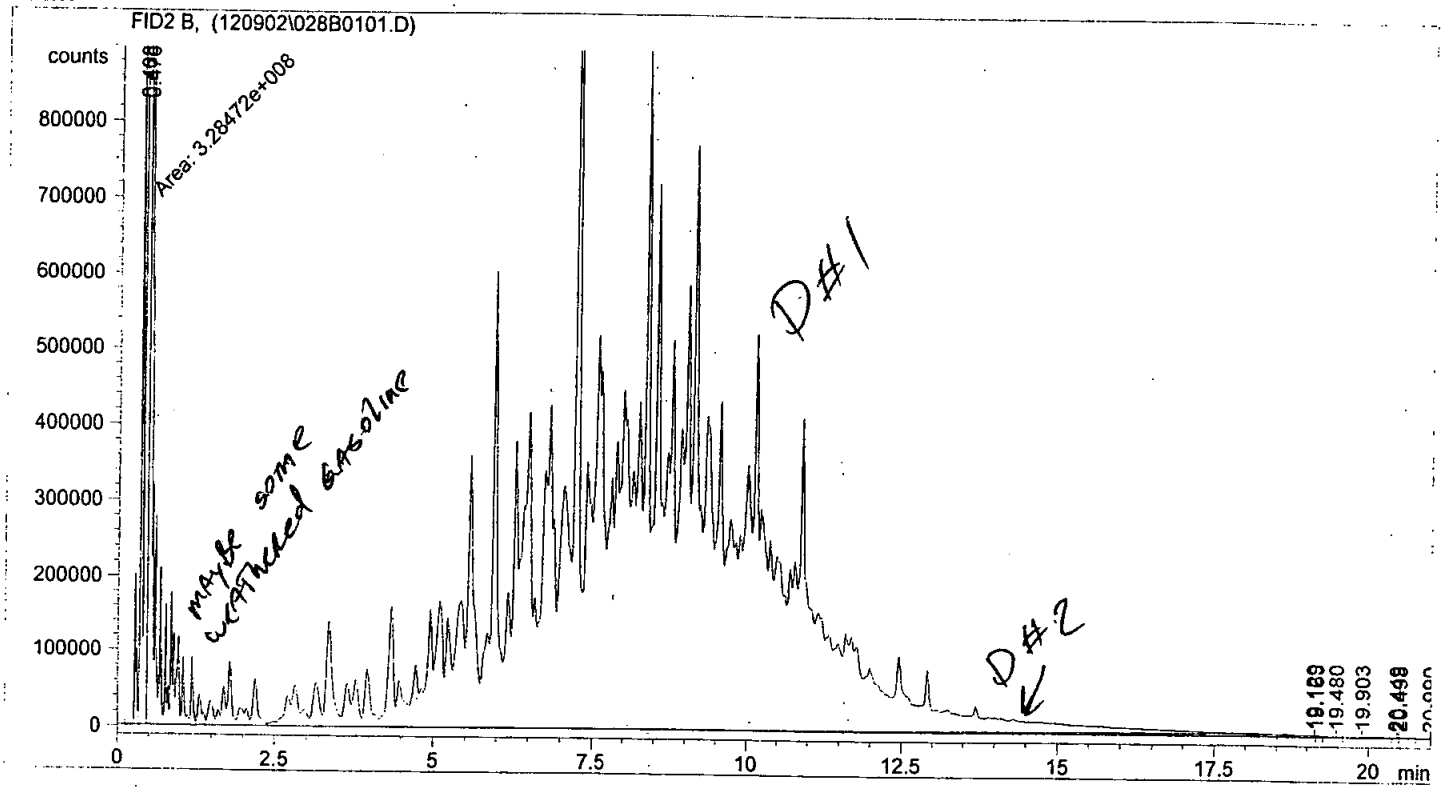
Sample Name: B17-32

Injection Date : 12/9/2002 1:19:08 PM
Sample Name : B17-32
Acq. Operator : Bret Hutchinson

Seq. Line : 1
Location : Vial 28
Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed : 12/19/2002 1:27:07 PM by Bret Hutchinson
(modified after loading)

TPHR



External Standard Report

Sorted By : Signal
Calib. Data Modified : 11/20/2002 7:45:07 AM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.597		-	-	-		Gasoline
7.304		-	-	-		Diesel
17.759		-	-	-		Oil Range

Totals : 0.00000

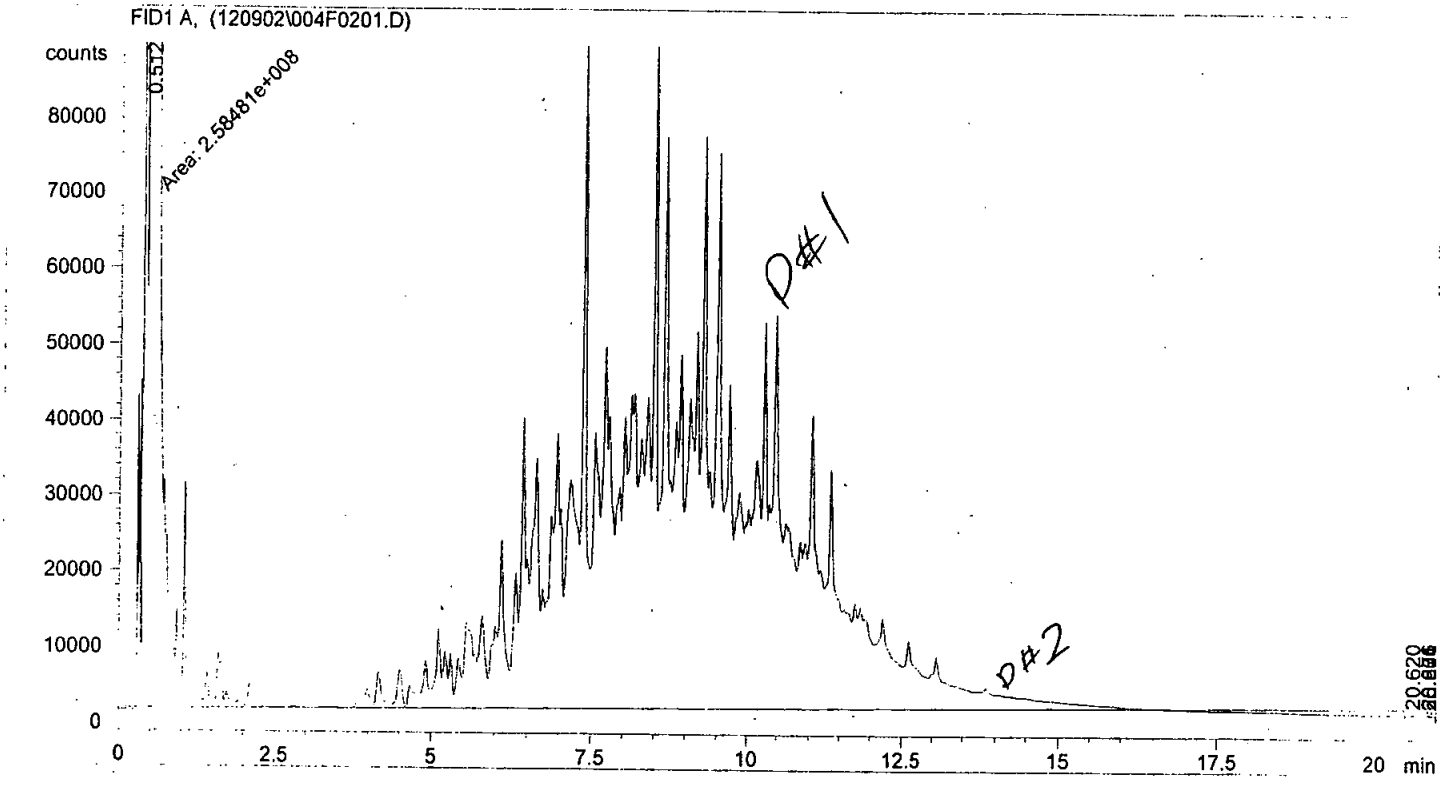
Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

Injection Date : 12/9/2002 1:51:34 PM Seq. Line : 2
Sample Name : B18-32 Location : Vial 4
Acq. Operator : Bret Hutchinson Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 9:56:44 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed : 12/19/2002 1:27:34 PM by Bret Hutchinson
(modified after loading)

TPHF



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/17/2002 8:43:55 AM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.696		-	-	-		Gasoline
7.424		-	-	-		Diesel
23.458		-	-	-		Oil Range

Totals : 0.00000

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

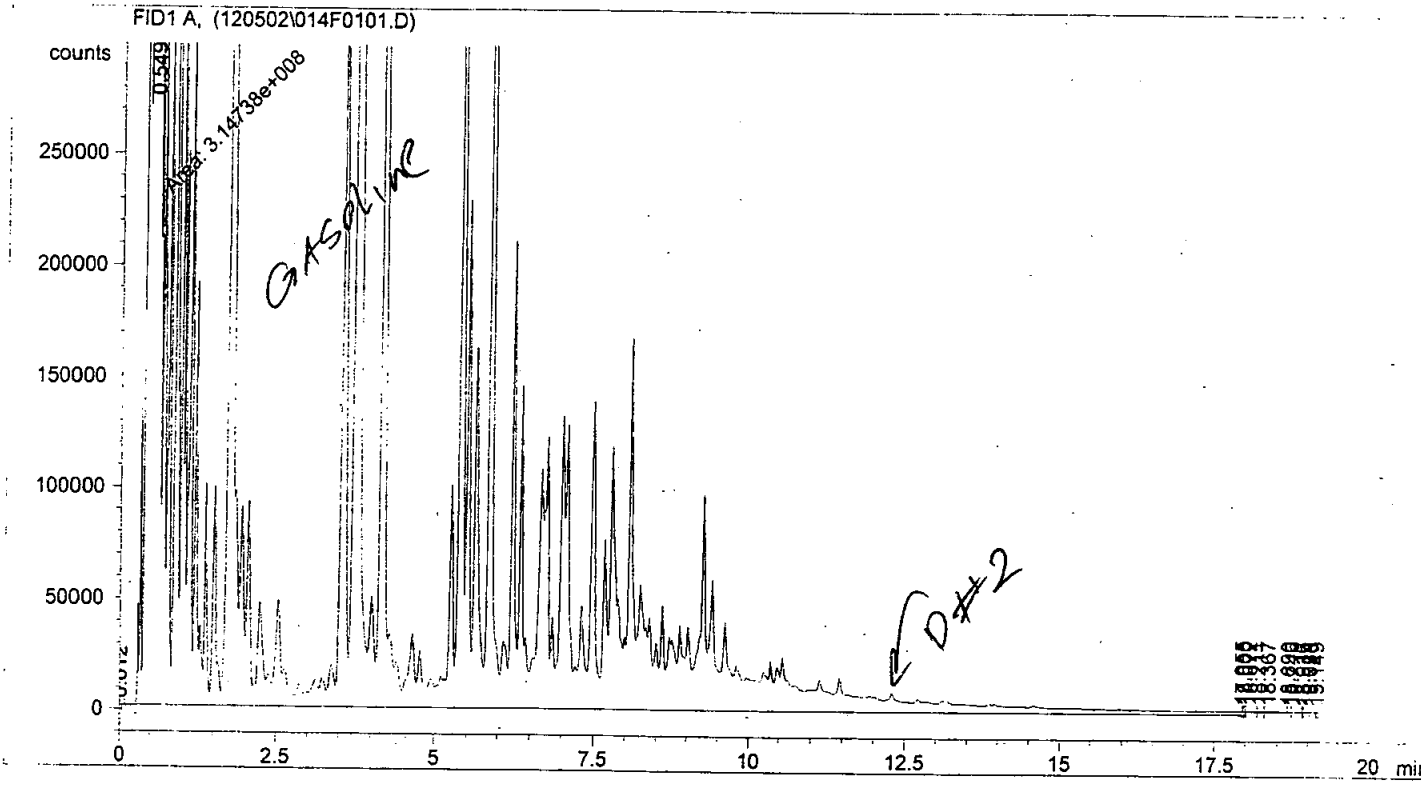
Groundwater Samples

Data File C:\HPCHEM\1\DATA\120[redacted]\014F0101.D

Sample Name: B1

Injection Date	: 12/5/2002 12:21:29 PM	Seq. Line	: 1
Sample Name	: B1	Location	: Vial 14
Acq. Operator	: Bret Hutchinson	Inj	: 1
		Inj Volume	: 3 µl
Acq. Method	: C:\HPCHEM\1\METHODS\TPHDUAL.M		
Last changed	: 8/19/2002 11:04:13 AM by Bret Hutchinson		
Analysis Method	: C:\HPCHEM\1\METHODS\TPHR0917.M		
Last changed	: 12/19/2002 1:23:07 PM by Bret Hutchinson (modified after loading)		

TPHR



External Standard Report

Sorted By	:	Signal
Calib. Data Modified	:	11/20/2002 7:45:07 AM
Multiplier	:	1.0000
Dilution	:	1.0000

Signal 2: FID2 B, not found

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.597		-	-	-		Gasoline
7.304		-	-	-		Diesel
17.759		-	-	-		Oil Range

Totals : 0.00000

Results obtained with enhanced integrator!
1 Warnings or Errors :

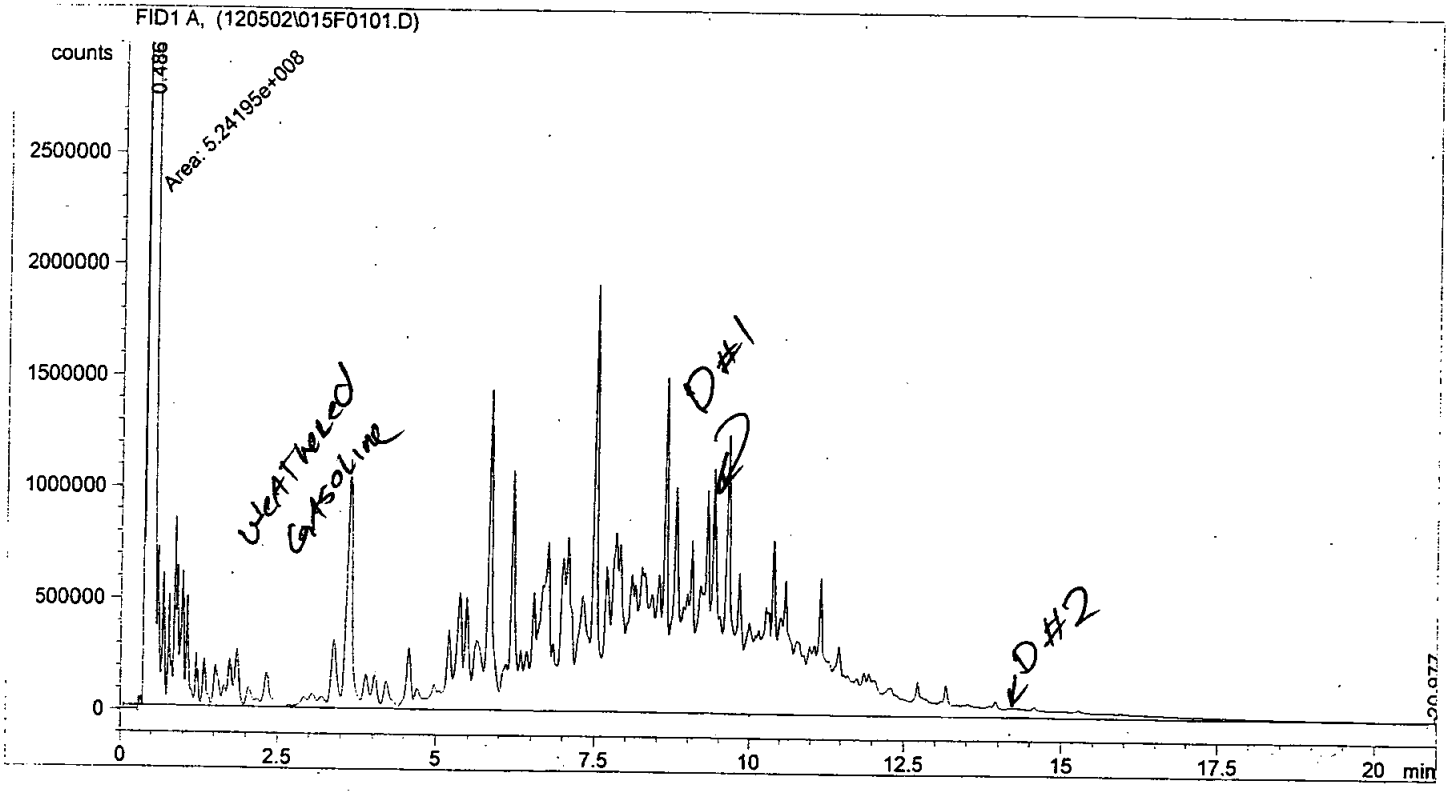
Warning : Calibrated compound(s) not found

Data File C:\HPCHEM\1\DATA\120[redacted]\015F0101.D

Sample Name: B3

Injection Date	: 12/5/2002 12:44:32 PM	Seq. Line	: 1
Sample Name	: B3	Location	: Vial 15
Acq. Operator	: Bret Hutchinson	Inj	: 1
		Inj Volume	: 3 µl
Acq. Method	: C:\HPCHEM\1\METHODS\TPHDUAL.M		
Last changed	: 8/19/2002 11:04:13 AM by Bret Hutchinson		
Analysis Method	: C:\HPCHEM\1\METHODS\TPHF0917.M		
Last changed	: 12/5/2002 1:16:51 PM by Bret Hutchinson (modified after loading)		

TPHF



External Standard Report

Sorted By	:	Signal
Calib. Data Modified	:	12/5/2002 1:16:49 PM
Multiplier	:	1.0000
Dilution	:	1.0000

Signal 1: FID1 A,

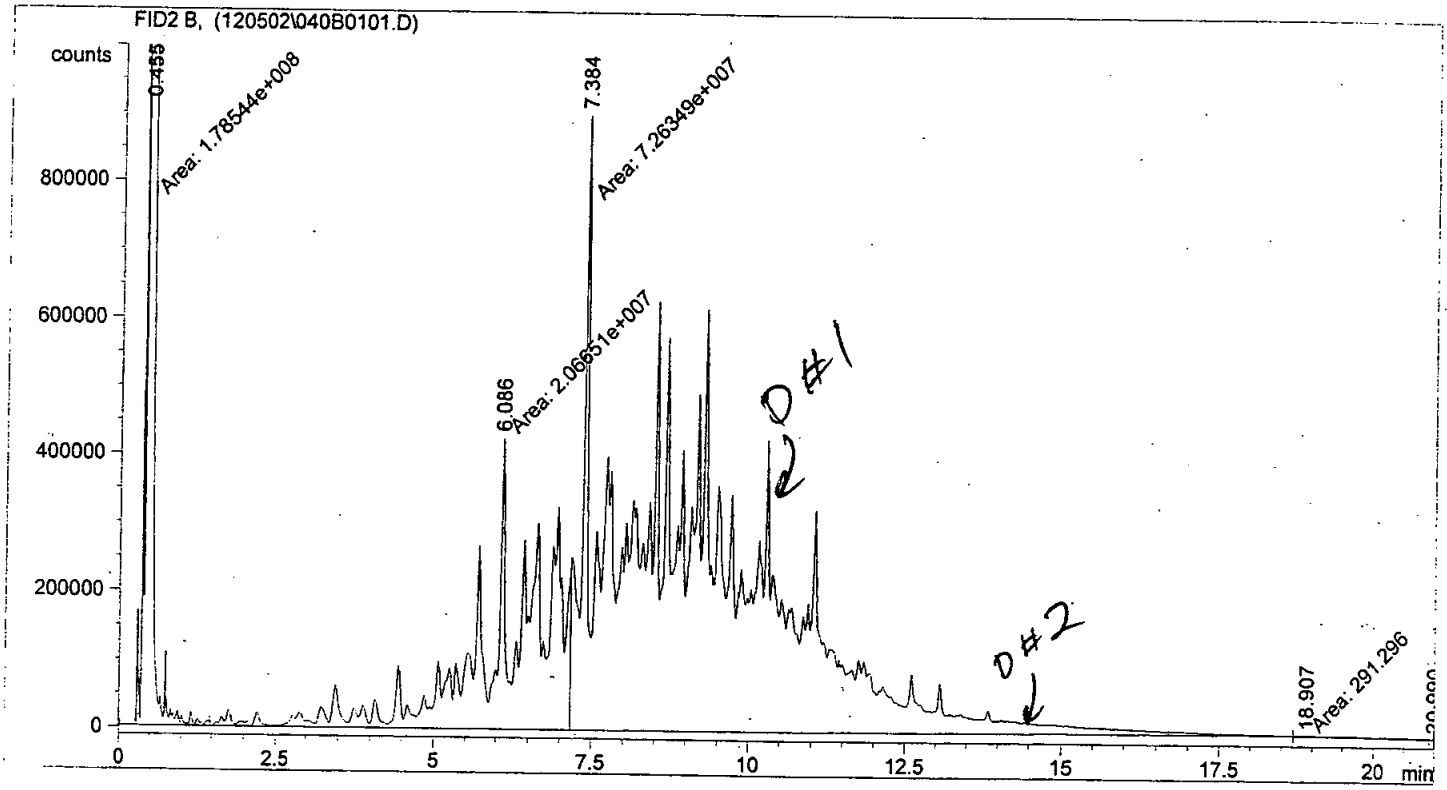
RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.687		-	-	-		Gasoline
7.431		-	-	-		Diesel
23.458		-	-	-		Oil Range
Totals :				0.00000		

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

Injection Date : 12/5/2002 12:44:32 PM
Sample Name : B4
Acq. Operator : Bret Hutchinson
Seq. Line : 1
Location : Vial 40
Inj : 1
Inj Volume : 3 µl
Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed : 12/5/2002 1:16:21 PM by Bret Hutchinson
(modified after loading)

TPHR



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/5/2002 1:16:07 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
6.086	MM	2.06651e7	2.01911e-4	4172.52249		Gasoline
7.384	MM	7.26349e7	1.50741e-4	1.09491e4		Diesel
17.759		-	-	-		Oil Range

Totals : 1.51216e4

Results obtained with enhanced integrator!
1 Warnings or Errors :

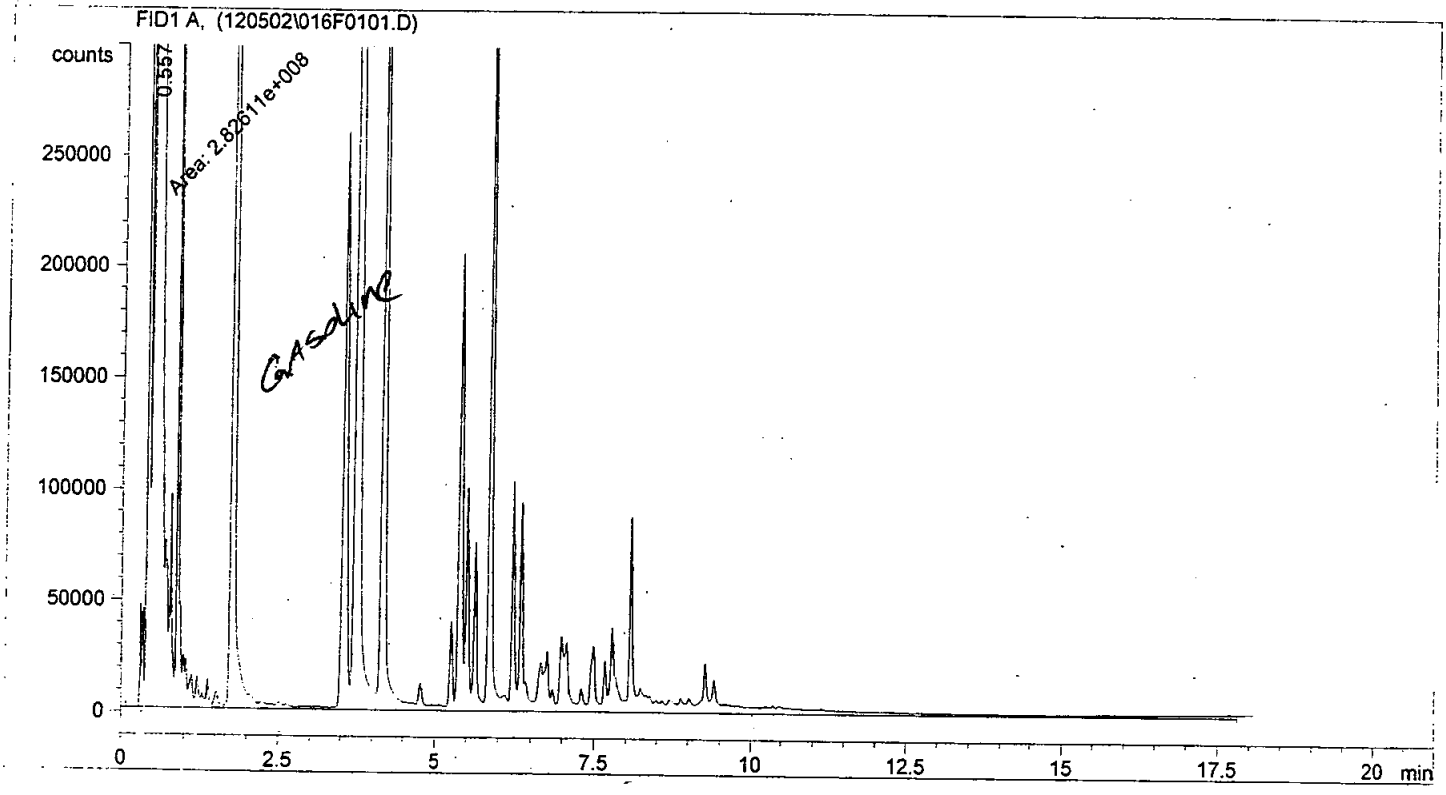
Warning : Calibrated compound(s) not found

*** End of Report ***

Injection Date : 12/5/2002 1:13:46 PM Seq. Line : 1
Sample Name : B6 Location : Vial 16
Acq. Operator : Bret Hutchinson Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed : 12/5/2002 1:36:02 PM by Bret Hutchinson
(modified after loading)

TPHF



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/5/2002 1:36:00 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.687		-	-	-		Gasoline
7.431		-	-	-		Diesel
23.458		-	-	-		Oil Range

Totals : 0.00000

Results obtained with enhanced integrator!
1 Warnings or Errors :

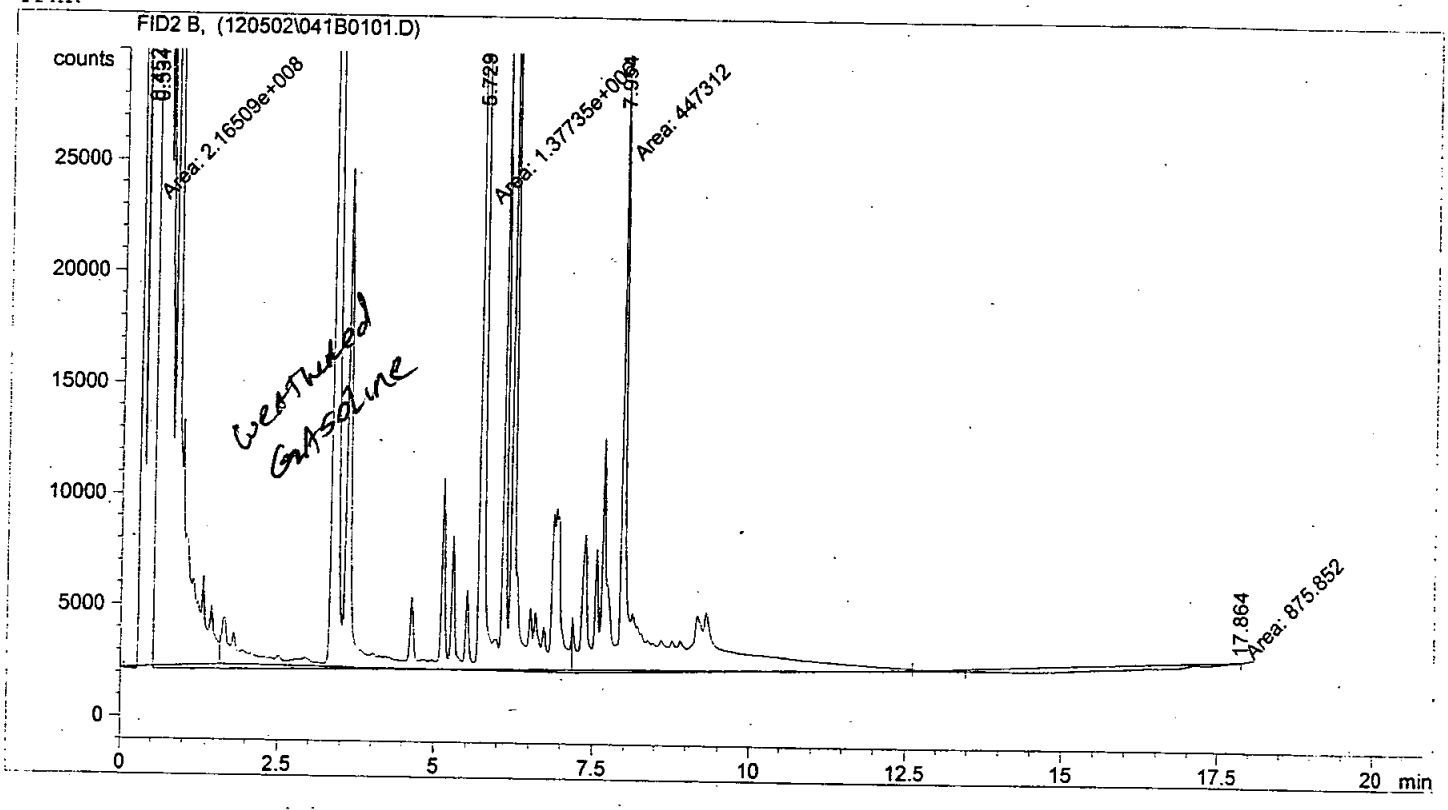
Warning : Calibrated compound(s) not found

Injection Date : 12/5/2002 1:13:46 PM
Sample Name : B7
Acq. Operator : Bret Hutchinson

Seq. Line : 1
Location : Vial 41
Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed : 12/5/2002 1:35:36 PM by Bret Hutchinson
(modified after loading)

TPHR



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/5/2002 1:34:22 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
5.729	MM	1.37735e6	1.82260e-4	251.03600		Gasoline
7.954	MM	4.47312e5	1.52875e-4	68.38298		Diesel
17.864	MM	875.85223	1.52875e-4	1.33896e-1		Oil Range

X 1.02

Totals : 319.55288

Results obtained with enhanced integrator!

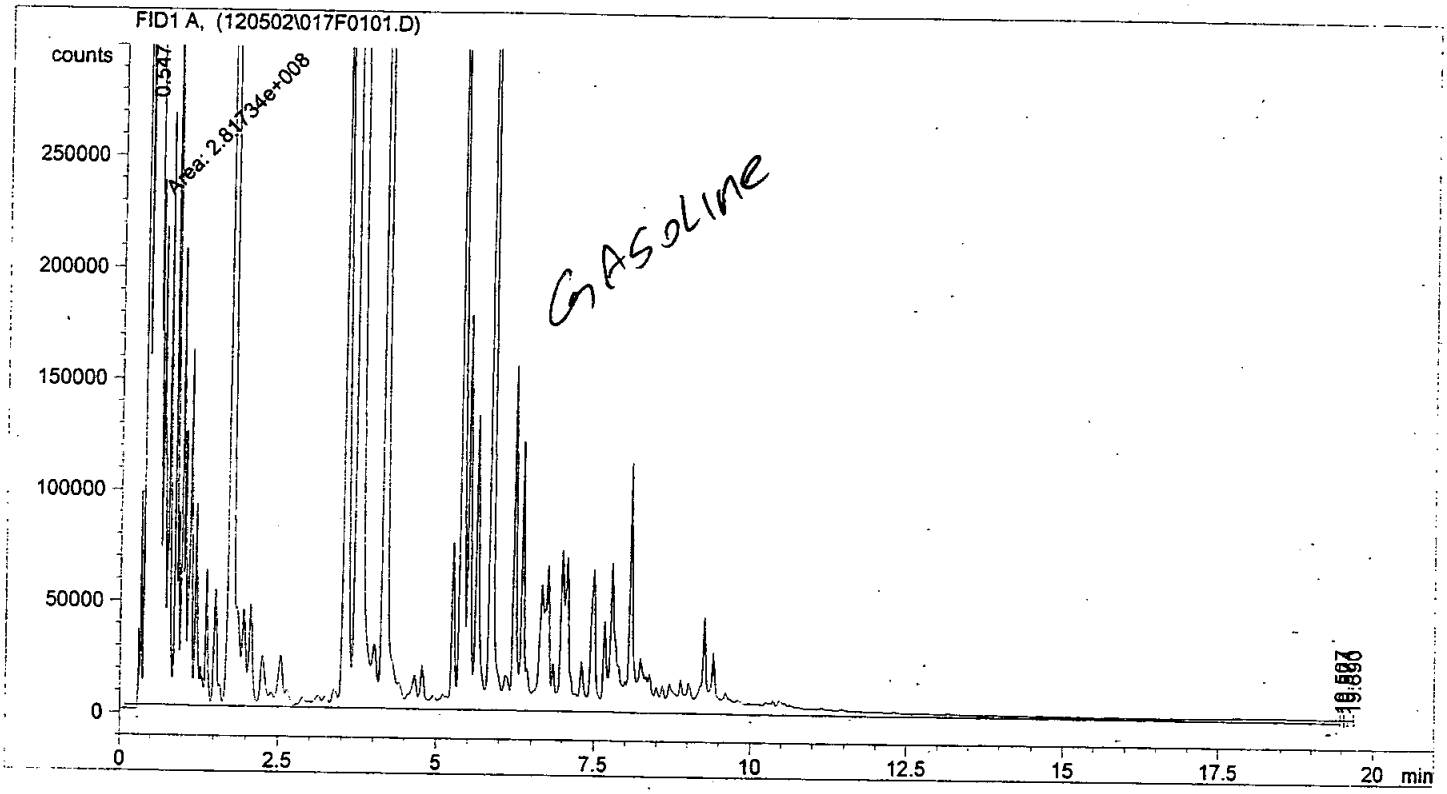
*** End of Report ***

Injection Date : 12/5/2002 1:37:09 PM
Sample Name : B8
Acq. Operator : Bret Hutchinson

Seq. Line : 1
Location : Vial 17
Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed : 12/5/2002 2:00:43 PM by Bret Hutchinson
(modified after loading)

TPHF



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/5/2002 2:00:41 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.687		-	-	-		Gasoline
7.431		-	-	-		Diesel
23.458		-	-	-		Oil Range

Totals : 0.00000

Results obtained with enhanced integrator!
1 Warnings or Errors :

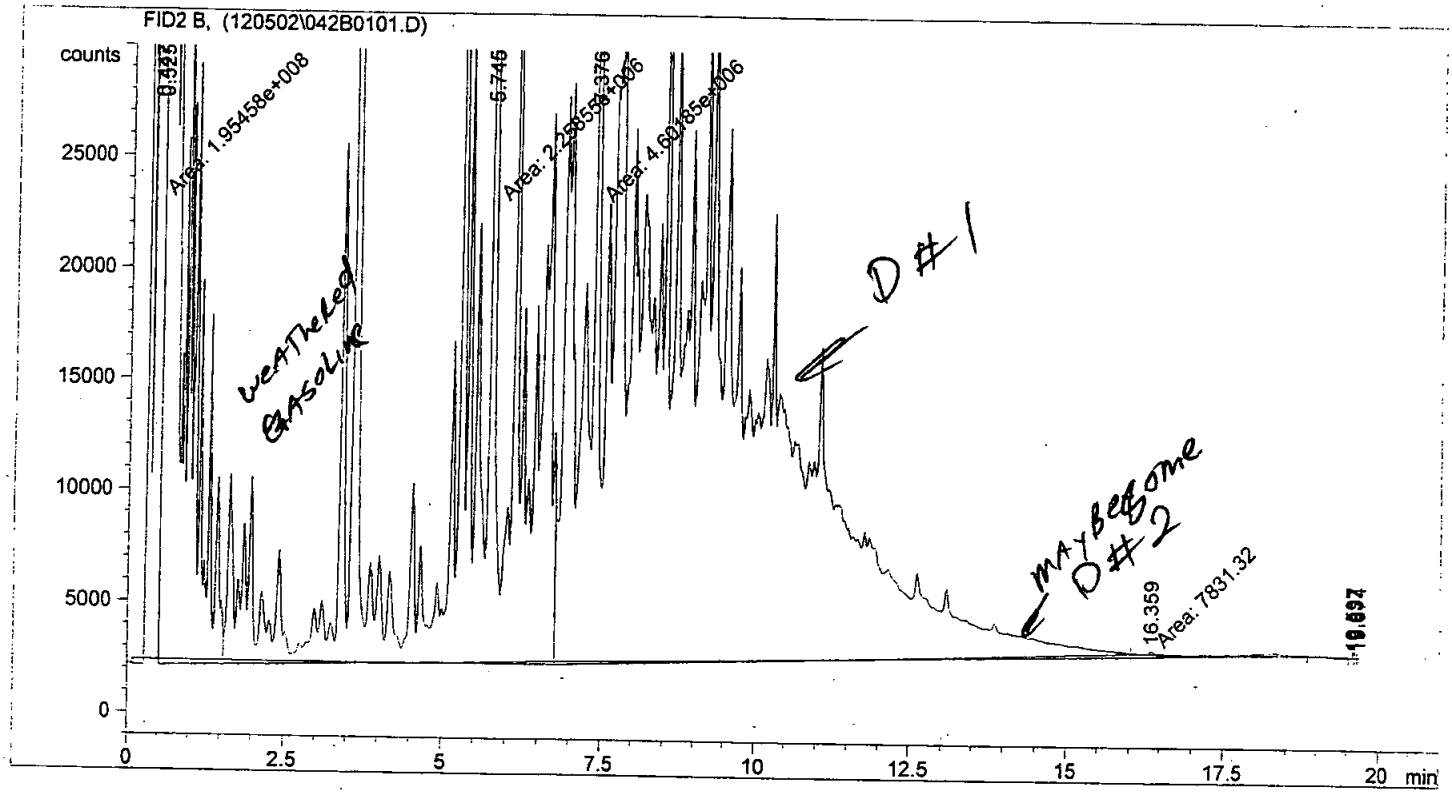
Warning : Calibrated compound(s) not found

Data File C:\HPCHEM\1\DATA\120[redacted]\042B0101.D

Sample Name: B9

Injection Date	: 12/5/2002 1:37:09 PM	Seq. Line	: 1
Sample Name	: B9	Location	: Vial 42
Acq. Operator	: Bret Hutchinson	Inj	: 1
		Inj Volume	: 3 µl
Acq. Method	: C:\HPCHEM\1\METHODS\TPHDUAL.M		
Last changed	: 8/19/2002 11:04:13 AM by Bret Hutchinson		
Analysis Method	: C:\HPCHEM\1\METHODS\TPHR0917.M		
Last changed	: 12/5/2002 2:00:04 PM by Bret Hutchinson (modified after loading)		

TPHR



External Standard Report

Sorted By	:	Signal
Calib. Data Modified	:	12/5/2002 1:59:51 PM
Multiplier	:	1.0000
Dilution	:	1.0000

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
5.745	MM	2.25855e6	1.90475e-4	430.19592		Gasoline
7.376	MM	4.60185e6	1.51471e-4	697.04586		Diesel
17.759		-	-	-		Oil Range

X 1.02 =

Totals : 1127.24178

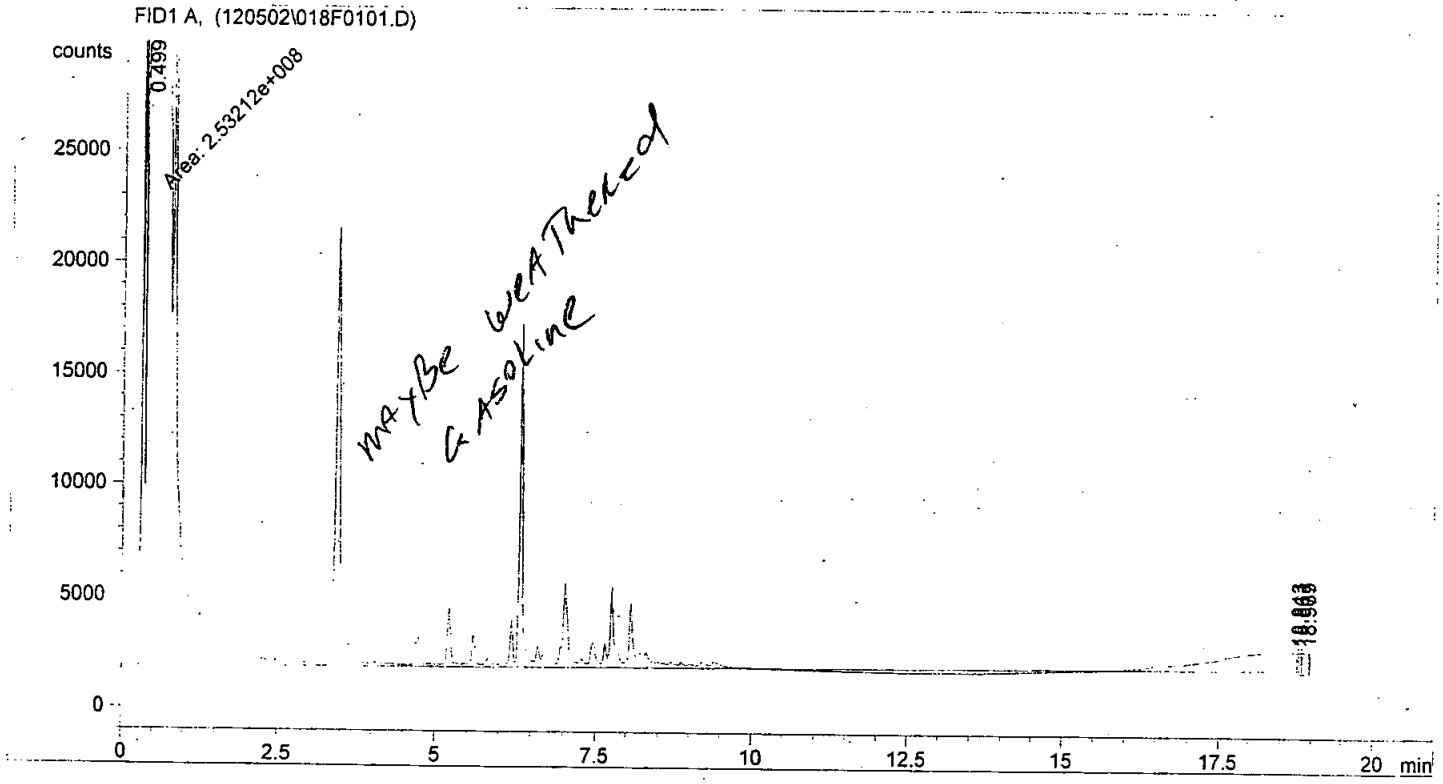
Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

*** End of Report ***

Injection Date : 12/5/2002 2:01:17 PM Seq. Line : 1
Sample Name : B10 Location : Vial 18
Acq. Operator : Bret Hutchinson Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed : 12/17/2002 8:44:21 AM by Bret Hutchinson
TPHF



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/17/2002 8:43:55 AM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.696		-	-	-		Gasoline
7.424		-	-	-		Diesel
23.458		-	-	-		Oil Range

Totals : 0.00000

Results obtained with enhanced integrator!
1 Warnings or Errors :

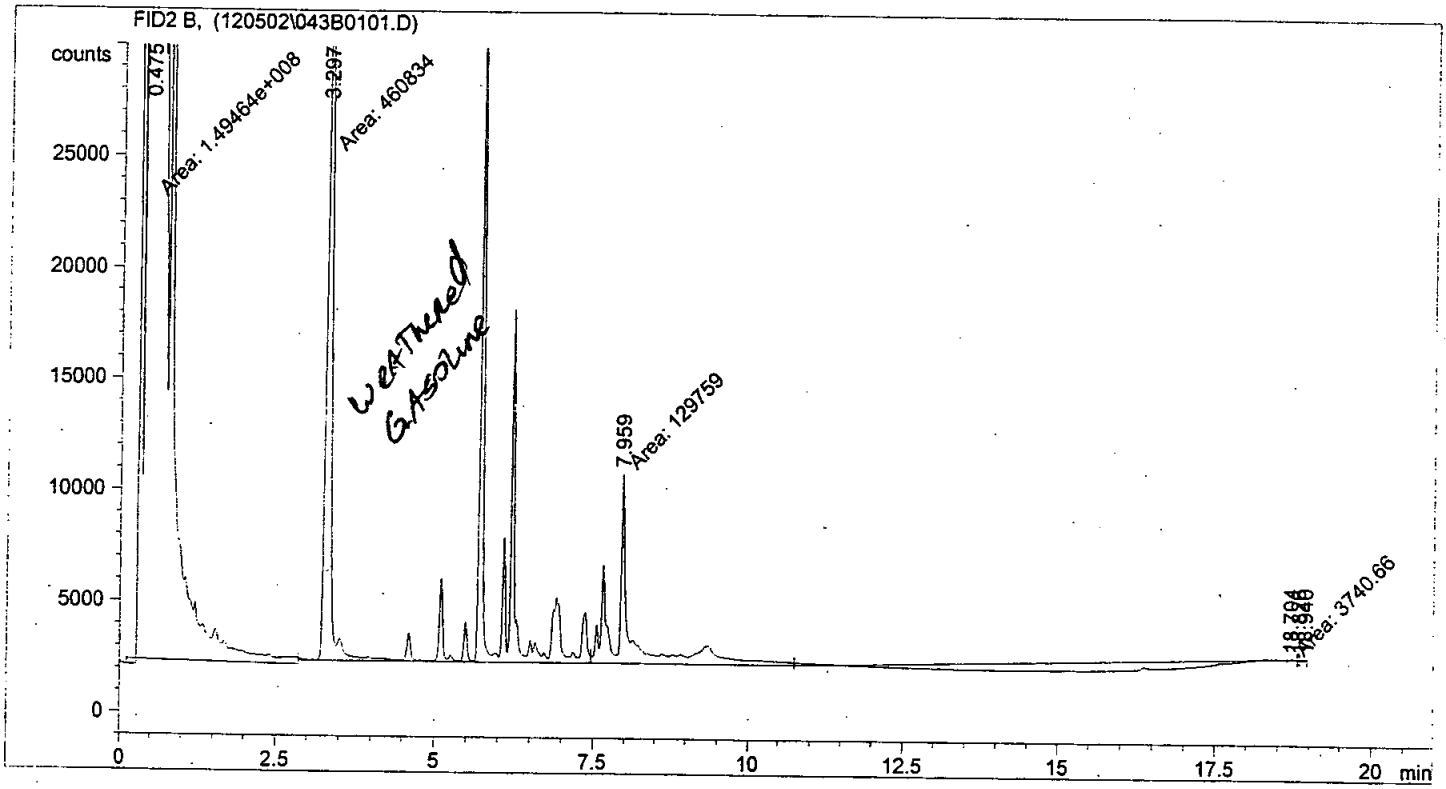
Warning : Calibrated compound(s) not found

Injection Date : 12/5/2002 2:01:17 PM
Sample Name : B11
Acq. Operator : Bret Hutchinson

Seq. Line : 1
Location : Vial 43
Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed : 12/5/2002 2:25:34 PM by Bret Hutchinson
(modified after loading)

TPHR



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/5/2002 2:24:58 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
3.297	MM	4.60834e5	1.70559e-4	78.59929		Gasoline
7.959	MM	1.29759e5	1.52875e-4	19.83695		Diesel
17.759		-	-	-		Oil Range

Totals : 98.43624

Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

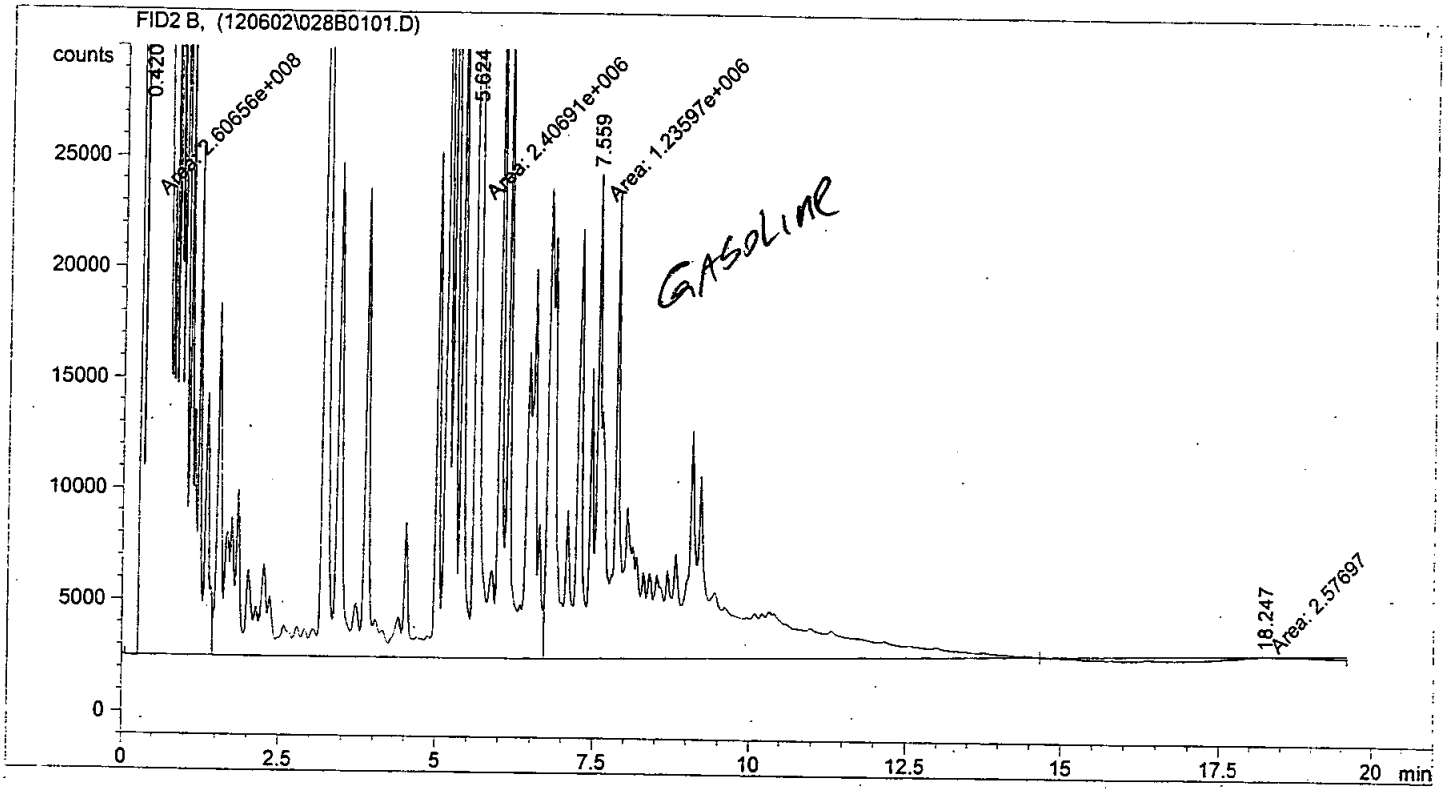
*** End of Report ***

Injection Date : 12/6/2002 8:23:49 AM
Sample Name : B12
Acq. Operator : Bret Hutchinson

Seq. Line : 1
Location : Vial 28
Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed : 12/6/2002 9:10:58 AM by Bret Hutchinson
(modified after loading)

TPHR



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/6/2002 9:10:38 AM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
5.624	MM	2.40691e6	1.91266e-4	460.36118		Gasoline
7.559	MM	1.23597e6	1.52875e-4	188.94866		Diesel
17.759		-	-	-		Oil Range

Totals : 649.30985

Results obtained with enhanced integrator!
1 Warnings or Errors :

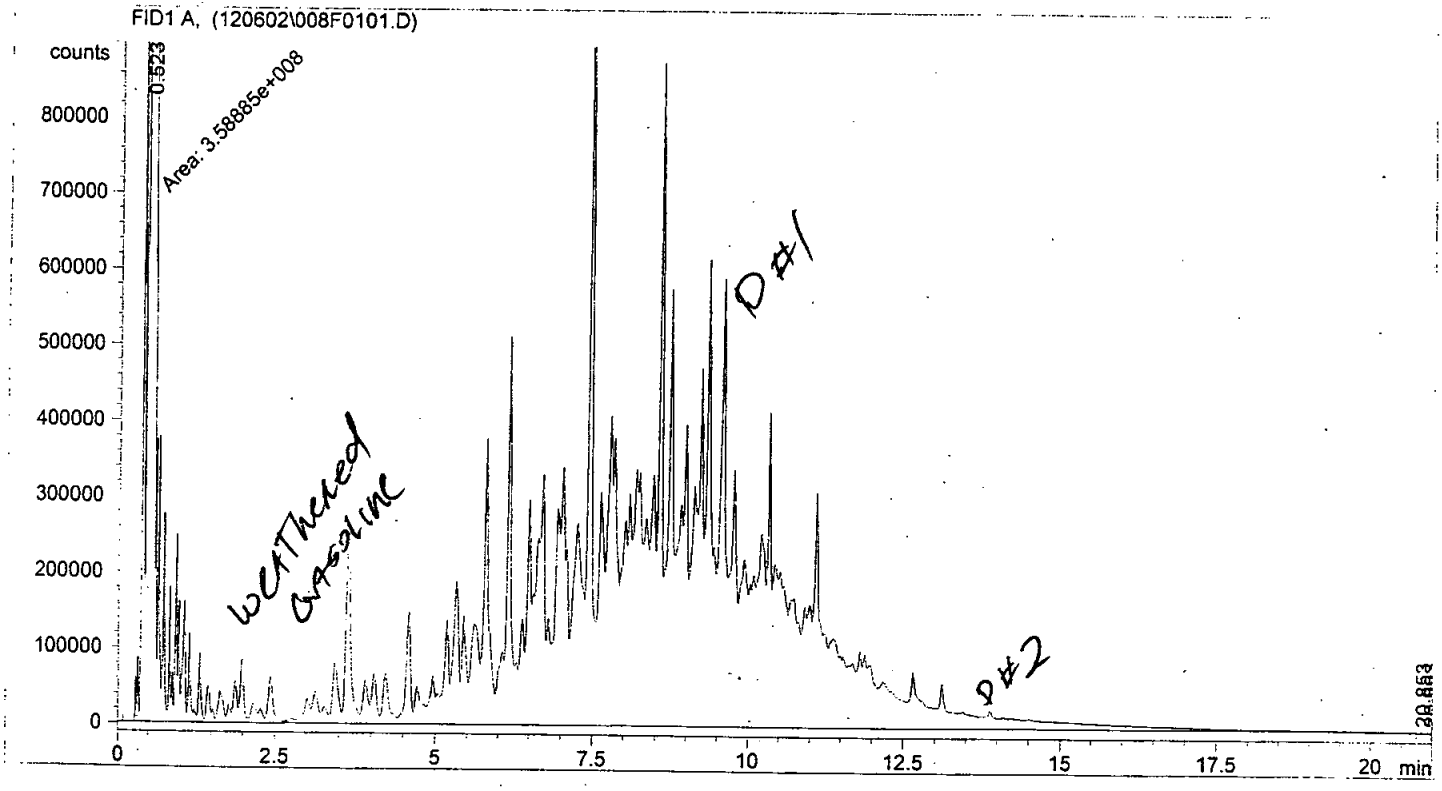
Warning : Calibrated compound(s) not found

*** End of Report ***

Injection Date : 12/6/2002 10:37:13 AM Seq. Line : 1
Sample Name : B13 Location : Vial 8
Acq. Operator : Bret Hutchinson Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 11:04:13 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed : 12/19/2002 1:26:08 PM by Bret Hutchinson
(modified after loading)

TPHF



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/17/2002 8:43:55 AM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID1 A,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
1.696		-	-	-		Gasoline
7.424		-	-	-		Diesel
23.458		-	-	-		Oil Range

Totals : 0.00000

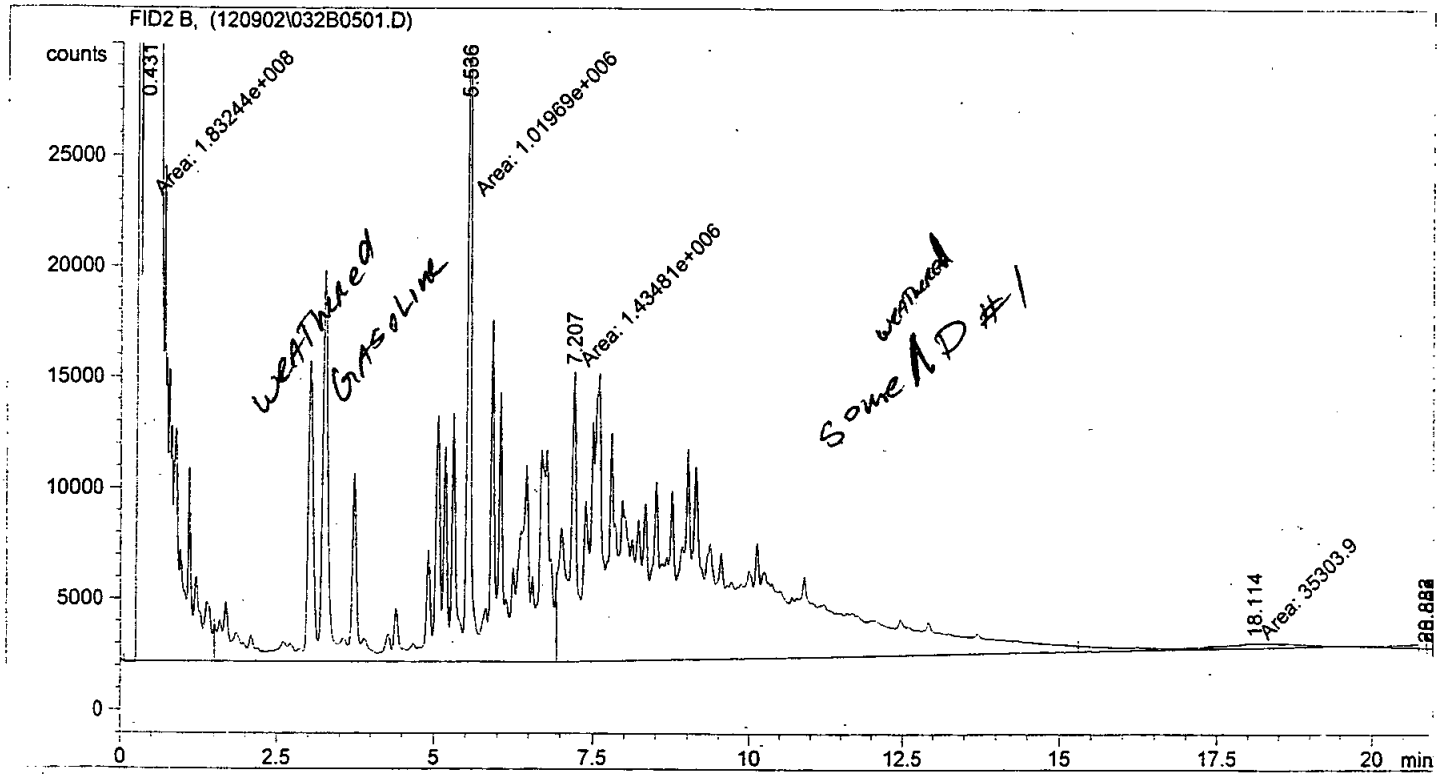
Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

Injection Date : 12/9/2002 3:22:28 PM Seq. Line : 5
Sample Name : B14 Location : Vial 32
Acq. Operator : Bret Hutchinson Inj : 1
Inj Volume : 3 µl

Acq. Method : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed : 8/19/2002 9:56:44 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed : 12/9/2002 4:48:36 PM by Bret Hutchinson
(modified after loading)

TPHR



External Standard Report

Sorted By : Signal
Calib. Data Modified : 12/9/2002 4:48:21 PM
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: FID2 B,

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
5.536	MM	1.01969e6	1.74875e-4	~~178.31815~~		Gasoline
7.207	MM	1.43481e6	1.52875e-4	~~219.34631~~		Diesel
18.114	MM	3.53039e4	1.52875e-4	5.39710		Oil Range

x.02 =

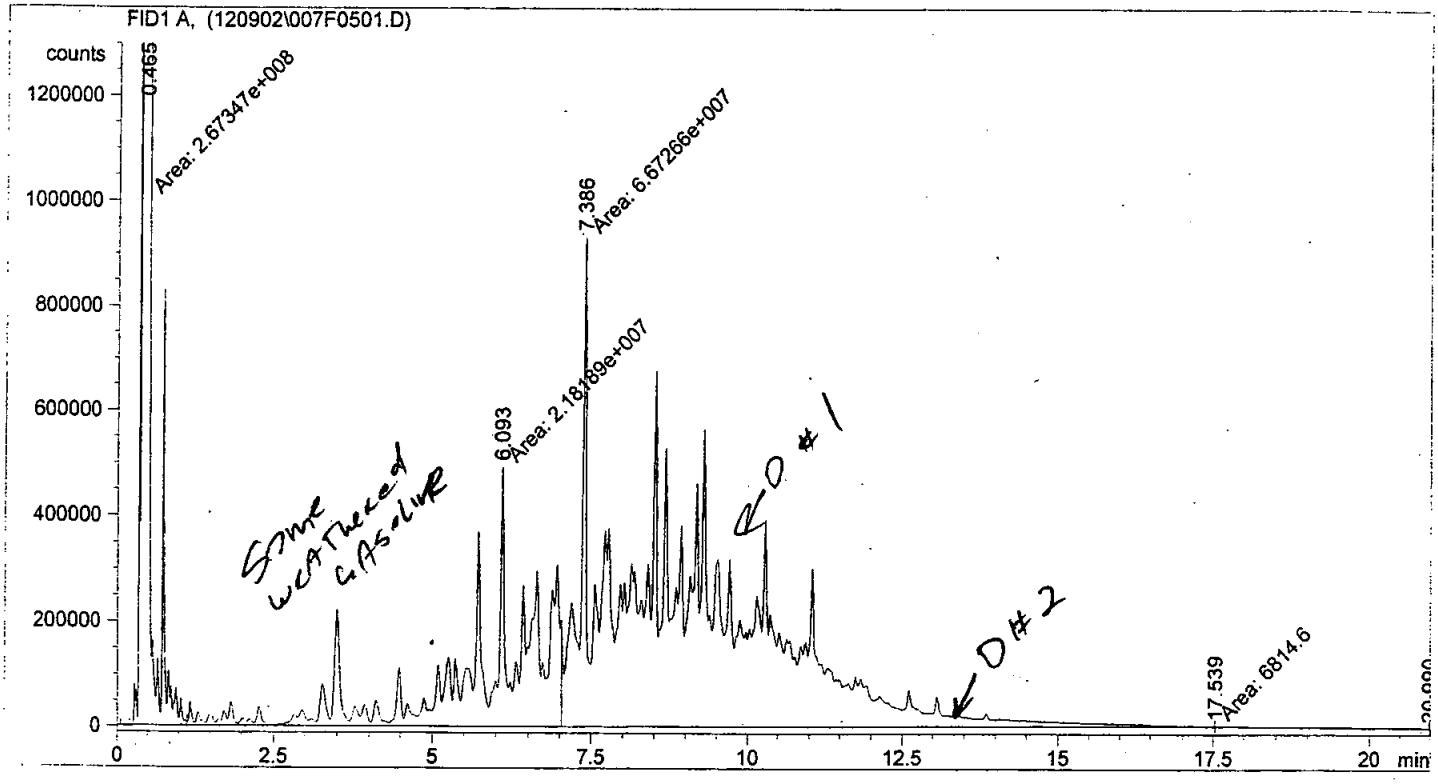
Totals : 403.06156

Results obtained with enhanced integrator!

*** End of Report ***

```
Injection Date   : 12/9/2002 3:22:28 PM          Seq. Line :   5
Sample Name      : B17                          Location : Vial 7
Acq. Operator    : Bret Hutchinson                   Inj :   1
                                                Inj Volume : 3 µl
Acq. Method      : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed     : 8/19/2002 9:56:44 AM by Bret Hutchinson
Analysis Method  : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed     : 12/9/2002 4:47:10 PM by Bret Hutchinson
                   (modified after loading)
```

TPHF



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      12/9/2002 4:46:03 PM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID1 A,
```

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
6.093	MM	2.18189e7	1.83476e-4	4003.23148		Gasoline
7.386	MM	6.67266e7	1.43230e-4	9557.26973		Diesel
23.458		-	-	-		Oil Range

```
Totals :                              1.35605e4

 Results obtained with enhanced integrator!
1 Warnings or Errors :

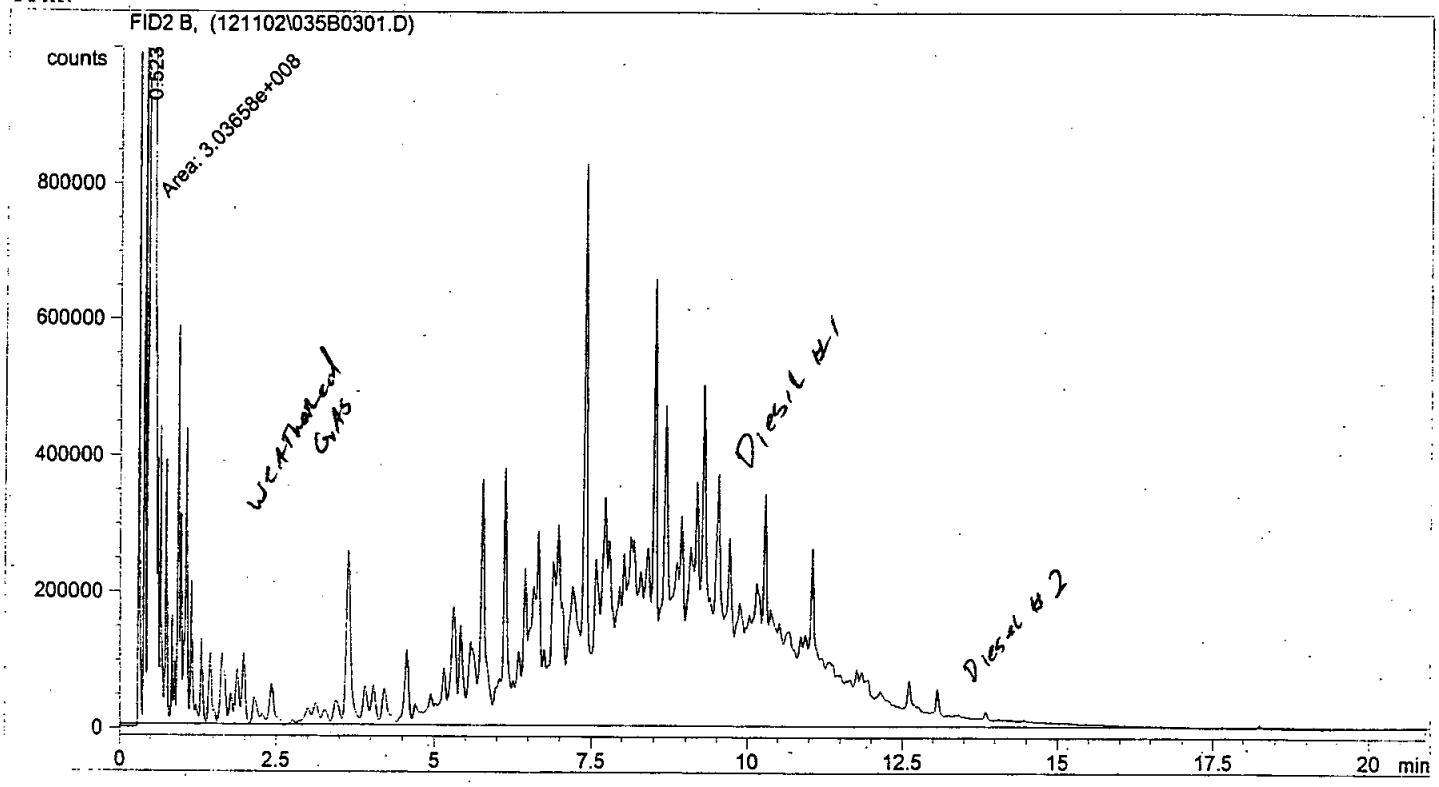
Warning : Calibrated compound(s) not found
```

*** End of Report ***

Product Samples

```
Injection Date  : 12/11/2002 5:55:17 PM          Seq. Line :   3
Sample Name     : MW2-FP                        Location : Vial 35
Acq. Operator   : Bret Hutchinson                   Inj :   1
                                                Inj Volume : 3 µl
Acq. Method     : C:\HPCHEM\1\METHODS\TPHEXT.M
Last changed    : 8/22/2002 3:39:07 PM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed    : 12/11/2002 6:18:13 PM by Bret Hutchinson
                  (modified after loading)
```

TPHR



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      11/20/2002 7:45:07 AM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID2 B,

RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          counts*s                [ng/ul]
-------|------|----------|----------|----------|--|-----------------
  1.597          -           -          -          Gasoline
  7.304          -           -          -          Diesel
 17.759          -           -          -          Oil Range

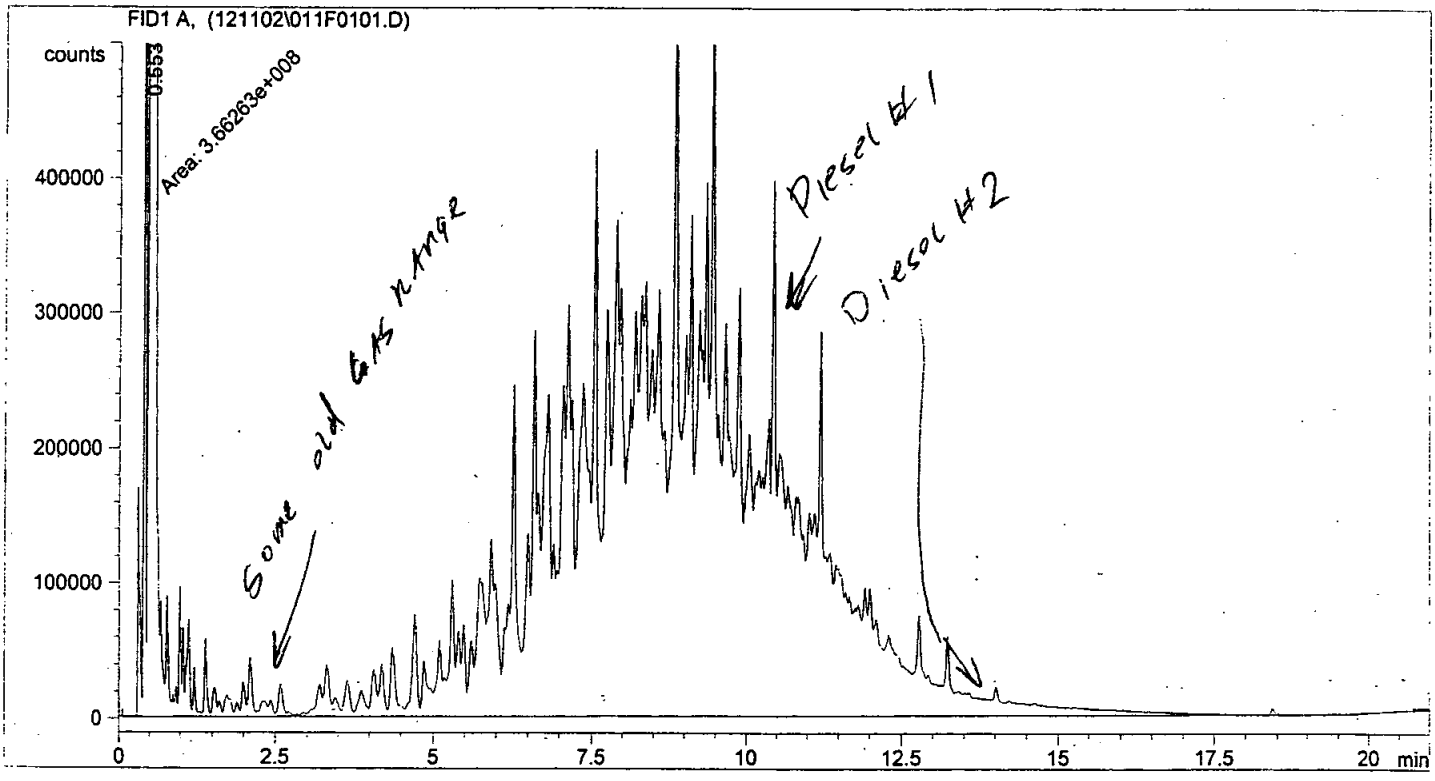
Totals :                                 0.00000

 Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found
```

```
==========================================================================
Injection Date  : 12/11/2002 6:21:58 PM          Seq. Line :   1
Sample Name     : MW3-FP                          Location : Vial 11
Acq. Operator   : Bret Hutchinson                     Inj :   1
                                                  Inj Volume : 3 µl
Acq. Method     : C:\HPCHEM\1\METHODS\TPHEXT.M
Last changed    : 8/22/2002 3:39:07 PM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed    : 12/11/2002 7:01:00 PM by Bret Hutchinson
                  (modified after loading)
```

TPHF




```
==========================================================================
                        External Standard Report
==========================================================================

Sorted By             :      Signal
Calib. Data Modified  :      12/11/2002 7:03:12 AM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID1 A,

RetTime  Type     Area       Amt/Area     Amount    Grp   Name
 [min]          counts*s                  [ng/ul]
-------|------|----------|----------|----------|--|-----------------
  1.868           -            -          -          Gasoline
  7.614           -            -          -          Diesel
 23.455 VV T   5.31354e4   1.34693e-4    7.15695     Oil Range

Totals :                                 7.15695

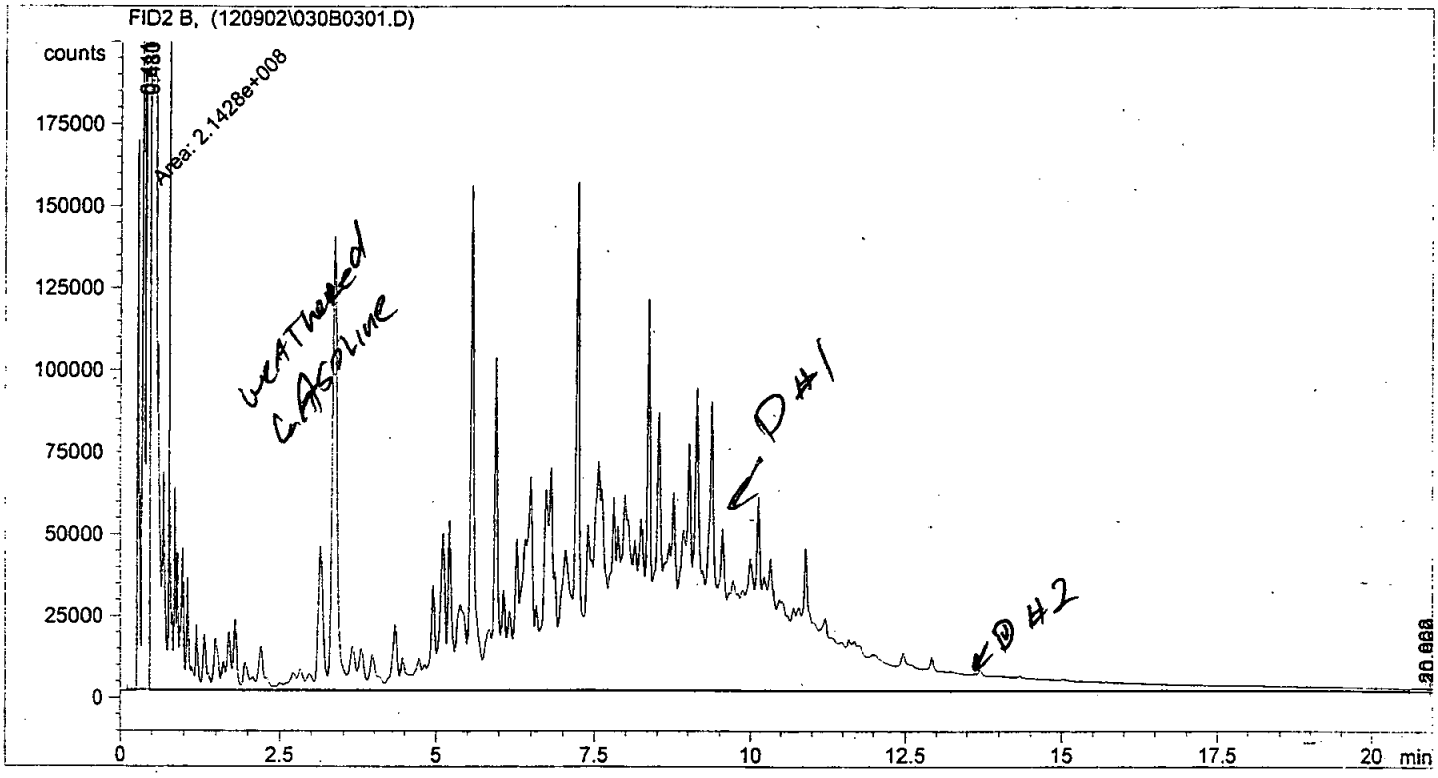
 Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==========================================================================
                          *** End of Report ***
```

```
Injection Date  : 12/9/2002 2:23:56 PM          Seq. Line :   3
Sample Name     : B3-FP                        Location : Vial 30
Acq. Operator   : Bret Hutchinson                  Inj :   1
                                              Inj Volume : 3 µl
Acq. Method     : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed    : 8/19/2002 9:56:44 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed    : 12/9/2002 4:44:08 PM by Bret Hutchinson
                  (modified after loading)
```

TPHR



External Standard Report

```
Sorted By             :      Signal
Calib. Data Modified  :      11/20/2002 7:45:07 AM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID2 B,

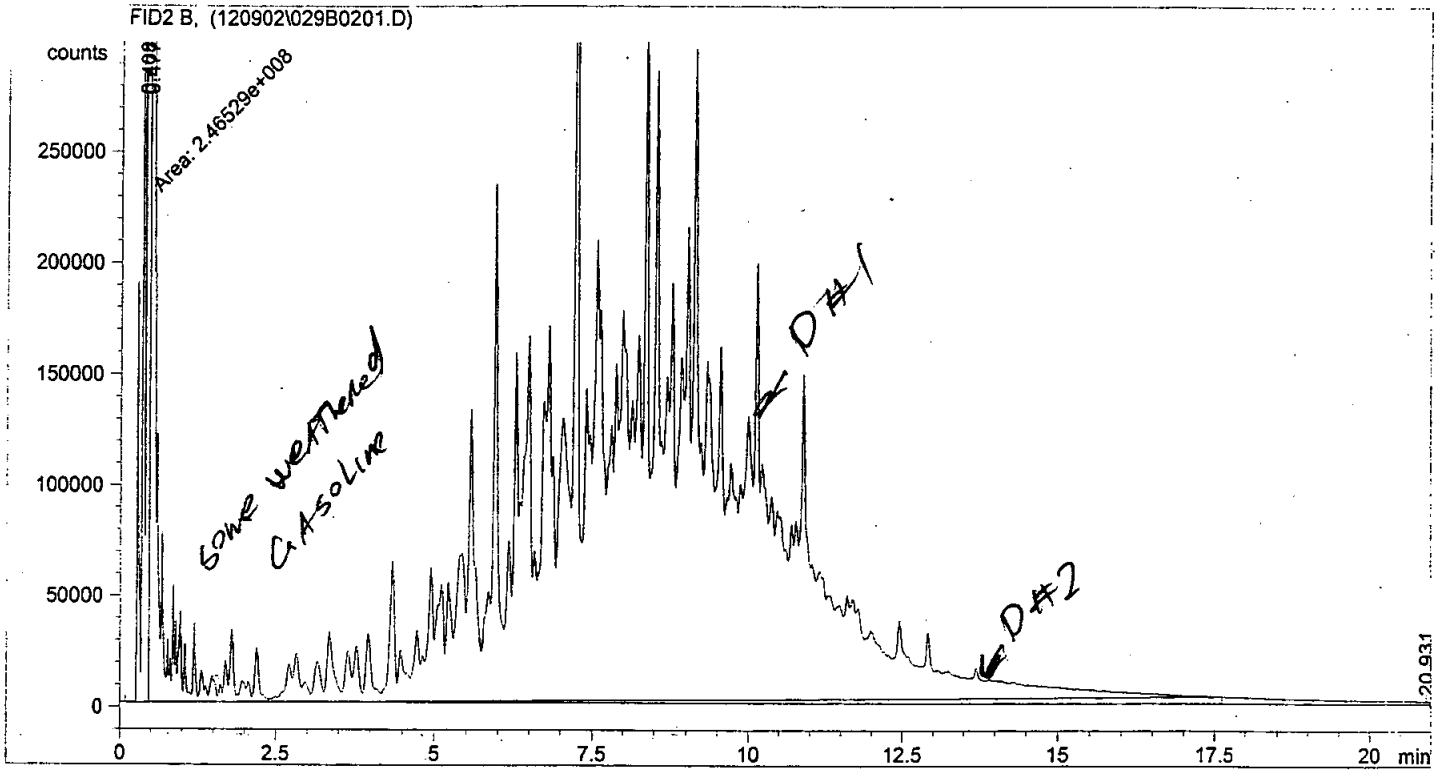
RetTime  Type     Area      Amt/Area    Amount    Grp   Name
 [min]          counts*s                [ng/ul]
-------|------|----------|----------|----------|--|------------------
  1.597           -           -          -          Gasoline
  7.304           -           -          -          Diesel
 17.759           -           -          -          Oil Range

Totals :                                  0.00000

 Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found
```

```
==============================================================================
Injection Date  : 12/9/2002 1:51:34 PM          Seq. Line :   2
Sample Name     : B4-FP                          Location : Vial 29
Acq. Operator   : Bret Hutchinson                    Inj :   1
                                                 Inj Volume : 3 µl
Acq. Method     : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed    : 8/19/2002 9:56:44 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHR0917.M
Last changed    : 12/9/2002 4:40:54 PM by Bret Hutchinson
                  (modified after loading)
TPHR
```




```
==============================================================================
                        External Standard Report
==============================================================================

Sorted By             :      Signal
Calib. Data Modified  :      12/9/2002 4:40:52 PM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID2 B,
```

RetTime [min]	Type	Area counts*s	Amt/Area	Amount [ng/ul]	Grp	Name
5.943		-	-	-		Gasoline
7.230		-	-	-		Diesel
17.759		-	-	-		Oil Range

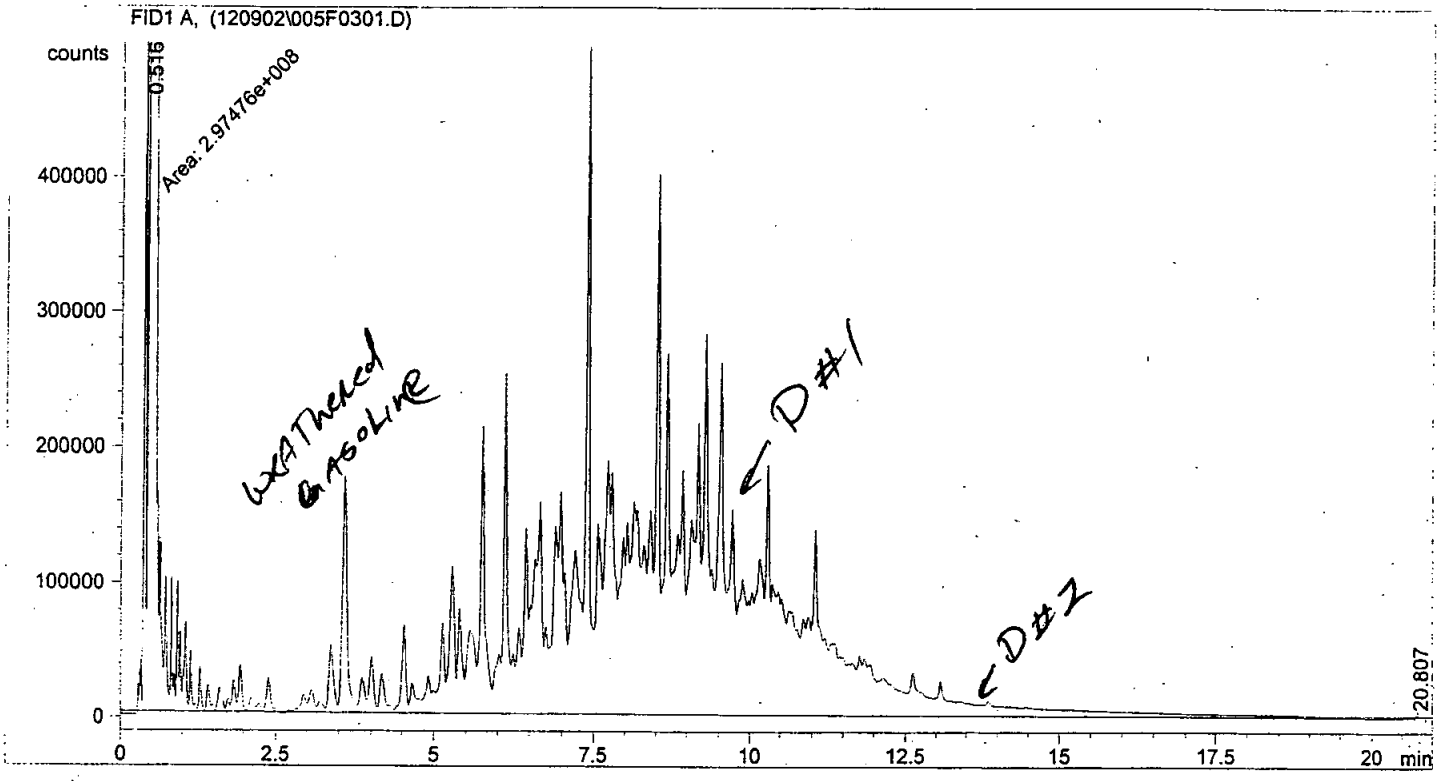
```
Totals :                                  0.00000

 Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==============================================================================
```

```
==============================================================================
Injection Date  : 12/9/2002 2:23:56 PM          Seq. Line :   3
Sample Name     : B13-FP                         Location : Vial 5
Acq. Operator   : Bret Hutchinson                    Inj :   1
                                                 Inj Volume : 3 µl
Acq. Method     : C:\HPCHEM\1\METHODS\TPHDUAL.M
Last changed    : 8/19/2002 9:56:44 AM by Bret Hutchinson
Analysis Method : C:\HPCHEM\1\METHODS\TPHF0917.M
Last changed    : 12/9/2002 4:41:45 PM by Bret Hutchinson
                  (modified after loading)
TPHF
```




```
==============================================================================
                        External Standard Report
==============================================================================

Sorted By             :      Signal
Calib. Data Modified  :      12/3/2002 10:16:23 AM
Multiplier            :      1.0000
Dilution              :      1.0000

Signal 1: FID1 A,

RetTime  Type      Area      Amt/Area    Amount    Grp   Name
 [min]          counts*s                [ng/ul]
-------|------|----------|----------|----------|--|-----------------
  1.687           -           -          -          Gasoline
  7.431           -           -          -          Diesel
 23.458           -           -          -          Oil Range

Totals :                                  0.00000

 Results obtained with enhanced integrator!
1 Warnings or Errors :

Warning : Calibrated compound(s) not found

==============================================================================
```

EnecoTech Southwest Inc.
6160 Fairmount Avenue • Suite A
San Diego, California 92120
(619) 299-0033 • Fax (619) 299-0087

EnecoTech
Strategies for Environmental Responsibility

RECEIVED
2005 APR 1 AM 10 29

March 25, 2005

Project 1686-001 (BG 020)

Mr. David Felix
County of San Diego, SAM
P.O. Box 129261
San Diego, California 92112-9261

RE: Revised Work Plan for Additional Site Assessment
11427 Woodside Avenue
Santee, California
H19469-001/T0948/ APN 382-320-06

Dear Mr. Felix:

EnecoTech Southwest, Inc. (EnecoTech) is pleased to present this work plan for to conduct additional site assessment for the subject site located at 11427 Woodside Avenue in Santee, California (Figure 1). This work plan has been prepared in response to a verbal request from Mr. David Felix at the County of San Diego Site Assessment and Mitigation Division (SAM), requesting permanent wells to assess the groundwater impact.

BACKGROUND AND PREVIOUS CHARACTERIZATION

The subject facility is located on a triangular-shaped parcel approximately 1.15 acres in size and located along Woodside Avenue. The entire property is developed as a fueling facility with underground storage tanks (USTs), above ground storage tanks (ASTs), product dispensers, and packaged petroleum products located in all areas of the site not used for vehicle traffic or site access. The facility serves vehicles from heavy equipment to automobiles with gasoline and diesel fuel from both card-lock and attendant-controlled dispensers. In addition, petroleum products such as lubricants, solvents, racing fuel, propane, and kerosene are sold in containers or dispensed from ASTs and USTs.

In 1988, a 2,000-gallon capacity gasoline tank was replaced with a 4,000-gallon capacity UST. At that time, an Unauthorized Release was discovered and reported. EnecoTech performed a preliminary site assessment in 1988 in which four monitoring wells were installed. Analysis of groundwater sampled from these wells resulted in measurable levels of petroleum contaminants. In 1998, nine tanks were removed. Soil samples collected were analyzed, and gasoline and diesel impact was detected from the soil and groundwater samples.

Wigington Petroleum retained EnecoTech in December 1999 to perform site assessment activities including soil and groundwater sampling for further delineation of impact at the subject site and the installation of three additional monitoring wells. An additional groundwater sampling of the four existing groundwater wells at the subject site was conducted on April 4 and 5, 2000. Wigington Petroleum is currently a claimant of the Underground Storage Tank Cleanup Fund (Fund) of the State Water Resources Control Board. Wigington Petroleum has received a Letter of Commitment and a number of reimbursement responses from the Fund.

While petroleum hydrocarbon impact to groundwater during 1988 was relatively low in samples collected from monitoring wells MW1 through MW4, results from the 2000 sampling event indicate hydrocarbon concentrations had increased dramatically. The concentrations of hydrocarbon impact are significant considering that the site is in an area with designated beneficial uses for groundwater, there are municipal water supply production wells within 2 miles, and the San Diego River is approximately 950 feet away. The site has significant impact to both soil and groundwater that extends offsite and northwest of MW8 located adjacent to Highway 67. The main contaminants of concern are benzene and methyl tertiary butyl ether (MTBE); however, high levels of other gasoline constituents and diesel also exist. The primary Maximum Contaminant Level (MCL) for benzene was exceeded in each monitoring well. The full extent of impact was unknown.

A site assessment was performed in December 2002, using temporary wells to aid in defining the extent of impact, with the resulting report dated March 7, 2003. This assessment provided a much greater characterization of the nature and extent of the release(s) that had taken place on site and their cumulative effect. Soil benzene and MTBE impact were found to largely exist on site, but soil total petroleum hydrocarbons as gasoline (TPHg) and diesel (TPHd) soil impact extends northwestward, across Highway 67. Groundwater benzene, MTBE, TPHg, and TPHd impact extended offsite more than 400 feet westward and northwestward, across Highway 67. Other properties in the area had been impacted.

SAM is now requesting that the temporary wells be followed up with permanent ones, now that the extent of impact is better understood. The new permanent wells (in concert with those that already exist) would be sampled and then be used as part of an ongoing program to monitor the dissolved product plume. This work plan is for the placement of the additional wells, and the performance of a groundwater monitoring event to include all wells.

Based on conversations with the County of San Diego, Site Assessment and Mitigation Division (SAM) representative, EnecoTech proposes the following scope of work.

PROPOSED SCOPE OF WORK

TASK 1: Preparation of Work Plan Update

EnecoTech will prepare and submit a work plan to SAM indicating the scope of work that has been included within this proposal. The work plan will indicate recommended locations to place permanent wells.

TASK 2: UST Fund Pre-Approval

Once SAM has approved the work plan, EnecoTech will prepare for the client's review and signature a pre-approval request for submission to the State UST Fund.

TASK 3: Permits and Permissions

EnecoTech will obtain the required well permits for nine additional monitoring wells from the Department of Environmental Health (DEH). EnecoTech will also obtain the required City of Santee encroachment permit to access Woodside Avenue and Woodside Avenue North. A copy of the soil boring log and analytical data will be submitted to SAM following fieldwork to satisfy the requirements of the soil boring/well permit. Owners of northeast and southwest adjacent properties will be contacted in order to obtain permission to place wells on their respective properties.

TASK 4: Site Assessment Fieldwork

EnecoTech will set up all subcontractors, arrange for a USA utility location to be performed, and update the site-specific health and safety plan in preparation for the fieldwork. Up to nine new monitoring wells will be placed.

Nine Additional Monitoring Wells: Planned to be placed in the locations indicated on Figure 1. Information from these locations will aid in the further evaluation of the current state and extent of soil and groundwater impact, provide the basis necessary to develop a remedial plan and design a remediation system, and evaluate offsite risks and need for offsite remedial action. The borings will be advanced using a hollow stem auger-type drilling rig to an approximate depth of 40 feet. For the four wells to be placed on the northeast and southwest adjacent properties, samples will be retrieved at 5 foot intervals and at approximately 1 foot above the capillary fringe and approximately 2 feet below the capillary fringe. Soil samples will be collected using a split spoon sampler. For the five other wells on either side of state Highway 67, no soil samples are planned. Once the borings are completed, wells will be installed with 4-inch diameter casings on wells within the mapped Benzene or MTBE 100 ug/l contours (Figure 1), and with 2-inch casings for the rest. The wells will be developed using surge blocks.

Borings and Wells: Each boring will be logged and field observations such as discoloration, odor, and photo-ionization detector (PID) readings will be recorded. Soil and groundwater samples in all borings and wells will be collected using EnecoTech's standard chain of custody procedures and stored in an ice chest for submittal to a California certified laboratory for analysis. The collected samples will be analyzed for total petroleum hydrocarbons as gasoline (TPHg) and diesel (TPHd) by EPA Method 8015; benzene, toluene, ethylbenzene, and xylenes (BTEX) and MTBE by EPA Method 8021; and confirmation of positive 8021 MTBE results by EPA Method 8260. EnecoTech will engage a California-licensed surveyor to locate the new monitoring wells for latitude, longitude, and elevation according to requirements established under AB2886. The survey data and analytical soil and groundwater results will be submitted by EnecoTech to the GeoTracker website, as required. Site assessment activities will be performed and boring logs will be reviewed under the supervision of a California Registered Geologist. Generated soil and wash water will be placed in drums and temporarily stored onsite. EnecoTech will arrange for the pick-up, transport, and disposal of any waste soil and water generated by the field activities.

TASK 5: Groundwater Monitoring

At least 72 hours after installation, EnecoTech will gauge, purge, and sample the new and existing wells according to the procedures described in the current SAM manual. The monitoring wells will be gauged for depth to groundwater and the presence of free phase product. Groundwater samples will be collected using new disposable bailers the same day as purging using EnecoTech's standard chain of custody procedures. Samples will then be stored in an ice chest for submittal to a California certified laboratory for analysis. The collected samples will be analyzed for TPHg and TPHd by EPA Method 8015; BTEX and MTBE by EPA Method 8021; and, confirmation of positive 8021 MTBE results by EPA Method 8260. Analysis will be conducted in the field for oxygen content and Redox utilizing portable testing equipment to evaluate the potential rate of biological consumption of the contaminants.

TASK 6: Report Preparation

Upon completion of field activities, EnecoTech will produce a report detailing the results of the monitoring well placement and sampling. Included in the report will be the following comprehensive illustrations: a site map indicating all onsite sampling locations and a larger scale map identifying all

offsite sample locations and surrounding property uses; a figure indicating groundwater elevations, gradient, and indicated flow direction; and, figures displaying in map view the extent and concentrations of benzene and MTBE. Analytical results will be presented along with an evaluation of the sample results, conclusions, and recommendations.

Cross Sections (axis +2 at 90°)
Show buildings on map.
Naphthalene?

SCHEDULE

It is anticipated that preparation and submittal of the work plan and obtaining Fund pre-approval will take approximately six weeks. Permitting and scheduling the fieldwork will take up to 4 weeks. The well installation fieldwork should take three days, then three days of groundwater monitoring can be performed a few days later. Laboratory analysis of samples is expected to take ten days. The report of activities should be ready in draft form in approximately six to eight weeks following completion of fieldwork.

Please contact me at (619) 417-9400 if you have any questions or comments.

Sincerely,
ENECOTECH SOUTHWEST, INC.

Michael J. Gibbs, RG 4821
Senior Geologist

cc: Ms. Linda Wigington
Mr. William Fischbeck, Esq.

Attachments: Figure 1 – Planned Boring/Well Locations
Standard Field Procedures

Recycled Paper

EnecoTech
STRATEGIES FOR ENVIRONMENTAL RESPONSIBILITY

APPROXIMATELY 150 FT. TO SAN DIEGO RIVER SURFACE WATER

400'

BLUE STAR STEEL
11322

CARSON TRAILER

TRAVLIN' RV
11370

THUNDERWORKS/
ELIMINATOR
BOATS
11420

TERRA TRAILER
& TRUCK
11424

AUTO CORRAL
AC TRUCK
BODIES
11440

TOYOTA
LIFT
11446

RICHS
MACHINE
11448

VALLEY
TRACTOR

0 50 100
SCALE IN FEET

NORTH WOODSIDE AVE.

SHOULDER

B16 (<0.0005) [27]

B10 (1,000) [280]

B11 (2,800) [64]

B12 (<0.05) [<0.1]

B15 (<0.0005) [<0.001]

HIGHWAY 67 SOUTH BOUND

BOX CULVERT

CENTER DIVIDER

HIGHWAY 67 NORTH BOUND

TRAILER STORAGE

MW8

SHOULDER

B7 (4,300) [780]

B6 (5,300) [180]

B8

B9

B13

11421
WESTERN STATES
FIRE PROTECTION

B1

11427

MW6

MW4

MW7

B2

11433
MOUSER
ELECTRONICS

PETER GAUGHEN'S
CHRISTMAS
TREES

ACCESS RD.

CREEKSIDE
APARTMENTS

KARERLLYN DR.

ORBIS DISTRIBUTORS
FLOORS GALORE

B19

B14

MW1

MW5

RAYO
WHOLESALE

B3

B17

B20

MW2

B18

B4

MW3

B5

New Well Planned

LEGEND

- MONITORING WELL LOCATION
- BORING LOCATION
- FENCE
- (<0.5) – BENZENE IN ug/l
- [<0.5] – MTBE IN ug/l
- 100 – BENZENE CONTOUR
- 100 – MTBE CONTOUR

(CONTOUR QUERRIED WHERE INFERRED)

EnecoTech®
ENVIRONMENTAL CONSULTANTS

Project: WIGINGTON

11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title:
GROUNDWATER CONCENTRATIONS BENZENE AND MTBE (4/02 AND 12/02)

		Date
Design:	MJG	1/03
Drawn:	MJL	1/03
Checked:	MJG	1/03
Approved:	MJG	1/03

File No.: 02-01686-001 | Date: 1/2003 | 1

ACAD File No.: AREABEN103 | Rev.: | Sheet of

STANDARD FIELD PROCEDURES

DRILLING AND SOIL SAMPLING

Soil borings are drilled using a direct push or truck mounted hollow stem auger drill operated by a C-57 licensed drilling company. The rigs are equipped with push rods or 8-or 10-inch hollow stem augers. Rods and augers are steam-cleaned between borings to prevent cross contamination, and auger-cleaning rinsate is contained in 55-gallon Department of Transportation (DOT)-approved drums stored near the boring/well.

Soil samples retrieved by the direct push rig collects soil samples in acetate sleeves. Soil samples retrieved by the hollow stem auger rig use a modified split spoon sampler fitted with stainless steel sleeves, driven into the ground with a rig operated safety hammer. Relative penetration resistance is measured by counting the number of hammer blows (blow counts) required to drive the sampler a distance of 18 inches, in 6-inch increments. Blow counts are recorded on boring logs. One stainless steel sleeve from each sampling depth is sealed with Teflon tape, capped, labeled, and placed into an ice chest or refrigerated at 4° Celsius until transported to a state-certified laboratory.

A second stainless steel sleeve from each sampling depth is emptied into a zip-lock plastic bag, which is sealed and gently agitated to facilitate volatilization of organic vapors. A portable photo-ionization detector (PID) is used to measure organic vapor concentrations, which are then recorded on the boring logs. The PID is calibrated with 100-ppm isobutylene prior to beginning fieldwork.

The scientist in the field uses the remaining recovered sample to describe the soil in accordance with the Unified Soil Classification System (USCS). Additionally, a qualitative characterization of contamination is made based upon any observed petroleum hydrocarbon odors and/or soil discoloration. These observations and USCS descriptions are included in the boring logs, which are reviewed by a California Registered Geologist.

All sampling equipment is washed before sampling in an Alconox solution and thoroughly rinsed. Cleaning rinsate and soil cuttings from drilling operations are contained in labeled 55-gallon DOT-approved drums.

Each sample container submitted for analyses has a label affixed with a unique sample name, job name, date sampled, and time of collection. A chain of custody form is used to document sample possession from the time of collection to the time of delivery to the laboratory. When possession of the samples is transferred, the persons relinquishing and receiving possession sign and date the chain of custody form. The sample control officer at the laboratory verifies sample integrity and confirms that the sample is of sufficient quantity for the requested analyses.

WELL CONSTRUCTION AND DEVELOPMENT

Wells are constructed in conformance with the general guidelines of the California Department of Water Resources and the Site Assessment and Mitigation (SAM) Manual according to the site specific permit application that is approved by SAM. In general, wells are constructed with factory-prepared blank and perforated schedule 40 PVC casing, new sand filter pack, bentonite and concrete seals, and traffic rated covers.

Wells are developed during construction by surge block agitation after filter pack installation and installation of the bentonite seal. Surging is applied throughout the length of the perforated section of each well for a period of not less than 10 minutes. No water is added or withdrawn during the development process. In the event that water is not present in the well at the time of installation, the well is developed by hand bailing three borehole volumes prior to sampling.

WELL GAUGING, PURGING, AND SAMPLING

Prior to purging and sampling, static groundwater levels in each monitoring well are measured using colorimetric water sensing paste and a metal tape measure, water level meter, or interface probe. Gasoline sensing paste and a metal tape measure or an interface probe is used to detect and measure any free product.

Fast recharging wells (i.e., recovery of groundwater level is 80% of static condition within 2 hours) are purged of one borehole volume of water (see calculation below) using either a polyethylene bailer or submersible pump. Measurement of pH, temperature, and electrical conductivity are recorded, and purging is continued in one-half borehole volume increments until pH, temperature, and electrical conductivity measurements are stable (i.e., within 10%). Slow recharging wells are purged of one borehole volume and then allowed to recover for 2 hours.

Once purging is complete, each well is allowed to recover to within 80% of its static condition (fast recharging wells only), and groundwater samples is retrieved using a disposable bailer and stored in approved sample containers appropriate for the analyses to be conducted. Sample containers are examined to assess that no headspace is present, then stored in a chilled ice chest or refrigerated at approximately 4° Celsius until transported to a state-certified laboratory. Cross contamination between wells is avoided by taking a number of precautions including purging and sampling wells in a specific sequence, using disposable or dedicated bailers, and using new gloves and clean equipment for each well.

San Diego County

12225 World Trade Drive, Suite P
San Diego, California 92128
858-485-5530

PETRA

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Engineers, Geologists
Environmental Scientists

December 24, 2007
J.N. 252-06

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ENVIRONMENTAL HEALTH

Ms. Linda Wigington
WIGINGTON PETROLEUM, INC.
c/o William L. Fischbeck, Esq.
Fischbeck & Oberndorfer
5464 Grossmont Center Drive, Third Floor
La Mesa, California 91942

Subject: **Work Plan for High Vacuum, Dual-Phase Extraction Pilot Test and Interim Remediation, El Capitan Oil Company, 11427 Woodside Avenue, Santee, California, DEH Unauthorized Release No. H19469-001**

Dear Ms. Wigington:

Petra Geotechnical, Inc. (Petra) is pleased to present this work plan to conduct a high vacuum dual phase extraction (HVDPE) pilot test and interim-remediation for the above-referenced Site. This work plan has been prepared pursuant to the requirements of the San Diego County Site Assessment and Mitigation (SAM) Program.

Should you have any questions regarding this work plan, please call the undersigned at 858.485.5530.

Respectfully submitted,
PETRA GEOTECHNICAL, INC.

PROFESSIONAL GEOLOGIST
CHARLES E. HOUSER
NO. 2206
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Charles E. Houser, C.E.G. 2206
Associate Geologist

CEH/jj
C:\MyFiles\2006\200\252-06\660 (Remediation)\HVDPEworkplanElCapOil.doc
Distribution: (1) Addressee, via Hand Delivery
(1) San Diego County, Site Assessment and Mitigation Program – Ms. Teresa Sherman, via Hand Delivery
(1) UST Cleanup Fund, with Reimbursement Request, via CA Overnight

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WORK PLAN FOR HIGH VACUUM, DUAL-PHASE EXTRACTION PILOT TEST AND INTERIM REMEDIATION EL CAPITAN OIL COMPANY 11427 WOODSIDE AVENUE, SANTEE, CALIFORNIA DEH UNAUTHORIZED RELEASE NO. H19469-001

INTRODUCTION

Petra Geotechnical, Inc., (Petra) is pleased to submit this work plan for a high vacuum, dual-phase extraction (HVDPE) pilot test and interim remediation at El Capitan Oil Company fuel services facility located in Santee, California (Figure 1). This workplan has been prepared pursuant to the requirements of the San Diego County Site Assessment and Mitigation (SAM) Program.

SITE DESCRIPTION

Site Identification

Site Name:	Former El Capitan Oil Company
Site Address:	11427 Woodside Avenue, Santee, California
A.P.N.:	382-320-06
DEH Case:	H19469-001

Site History

The site is located in central San Diego County in the community of Santee. A reported total of 13 underground storage tanks (USTs) have been removed from the site between 1987 and 1998. Results of sampling conducted during UST removal activities indicated that a release of petroleum hydrocarbons had occurred from the UST system. The County of San Diego, Hazardous Materials Management Division (HMMD) issued a letter requiring corrective action relative to the release (County of San Diego, HMMD, August 19, 1993).

During 1988 through 2005, EnecoTech Southwest, Inc. (EnecoTech) conducted assessment activities at the site. A total of 18 borings and 8 groundwater monitoring wells have been drilled and sampled at the site. Based on the results of assessment activities conducted to date, it appears the extent of petroleum hydrocarbon-impacted groundwater has not been fully

delineated. Additional delineation is required to the southwest, south and east of the former UST system.

On March 25, 2005, EnecoTech submitted a workplan for additional site assessment. In a letter dated ~~October 10, 2007~~ April 21, 2005, the SAM Program approved this workplan. Petra discussed adding a well to the proposed and approved work with SAM Program personnel. It was agreed that a workplan addendum for the additional well should be submitted for approval. Additional well was approved in SAM letter dated October 10, 2007.

During groundwater monitoring and sampling activities conducted by Petra on October 25, 2007, phase-separated petroleum hydrocarbons (free product) were detected in wells MW-2, MW-3 and MW-4. This workplan is for Petra to conduct a high vacuum, dual-phase extraction (HVDPE) pilot test and interim remediation to evaluate the feasibility of using this technology for mitigation of the free product at the site.

GEOLOGY

Regional Geology

The site is located in the Peninsular Ranges Geomorphic Province of Southern California. This province is typified by northwest to southeast-trending mountain ranges approximately parallel to the San Andreas and related regional fault systems. The plutonic rocks of the Peninsular Ranges are generally characterized as granitic rocks of the Southern California batholith (Norris & Webb, 1990) in association with lesser amounts of metamorphic rocks. Sedimentary rocks ranging in age from Cretaceous to Pleistocene form the San Diego embayment and coastal terraces west of the batholith.

As interpreted from regional geologic maps (Strand, 1962, Tan, 2002 and Todd, 2004), geologic materials underlying the site may include Quaternary-aged alluvium and colluvium. The more detailed geologic map of Tan (Tan, 2002) identifies Pleistocene alluvial deposits underlying the site and describes these sediments as "moderately consolidated, poorly sorted flood plain

deposits consisting of gravelly, sandy silt and clay." These sediments are in unconformable contact with underlying bedrock.

The regional geologic maps have identified bedrock in the near vicinity as being "granitoid" (Todd, 2004). Tan (Tan, 2002) has mapped Cretaceous-aged tonalite immediately south of the site. The tonalite was described as including "some granodiorite and quartz diorite, medium-grained, generally dark colored and severely weathered." Based upon the referenced regional mapping, the site is most likely to be underlain by Cretaceous-aged tonalite. The top of the granitic composition bedrock is typically highly weathered to an as yet undetermined depth.

Site-Specific Geology

Based on a review of EnecoTech reports and our experience in the site vicinity, it appears the site is underlain by alluvium and slopewash. These materials appear to be, in turn, underlain by weathered granitic bedrock which also comprises the highlands to the south of the site.

HYDROGEOLOGY

Based on review of a document titled *Water Quality Control Plan, San Diego Basin - Region 9*, (approved by the California Regional Water Quality Control Board September 8, 1994), the site is interpreted to lie within the Regional Water Quality Control Board (RWQCB), San Diego Basin Region 9, Santee Hydrologic Sub Area (7.12) of the Lower San Diego Hydrologic Area (7.10) of the San Diego Hydrologic Unit (7.00). According to the RWQCB, surface water in the area has existing beneficial use for industrial and agricultural purposes and exempted potential use for municipal purposes. According to this RWQCB document, the groundwater in the Santee Hydrologic Sub Area has been classified as having existing beneficial uses for municipal, agricultural, industrial and industrial process supply purposes.

According to previous reports referenced above, groundwater is present at depths ranging from approximately 29.45 to 31.90 feet below grade. The groundwater flow direction has been

interpreted, in the referenced reports (EnecoTech, 2002 and EnecoTech, 2003), to be generally toward the west-southwest.

OBJECTIVES

Due to the presence of free product in three of the wells at the site, high vacuum dual phase extraction (HVDPE) may be a cost-effective and technically feasible interim remedial option for removal of free product, as well as removing hydrocarbon-affected groundwater. The objective of the proposed scope of services is to evaluate the potential effectiveness of HVDPE as an alternative for remediation of free product and contaminated groundwater at the site.

SCOPE OF SERVICES

This work plan outlines the scope of work to perform a high vacuum dual phase extraction (HVDPE) pilot test and interim remediation at the site. The proposed pilot testing consists of a 30-day HVDPE pilot test conducted on three monitoring wells (MW-2, MW-3, and MW-4) containing free product at the site.

The HVDPE pilot test procedure involves removing air at high vacuum from monitoring/extraction wells to evaluate contaminant removal rates and to determine the distribution of airflow (i.e., radius of influence) within the contaminated zone. Petra proposes to conduct the following activities to complete the HVDPE pilot test:

- A mobile HVDPE extraction treatment system will perform HVDPE pilot tests on the site wells to determine the feasibility of removing free product and hydrocarbon-impacted groundwater from the site.
- A short-term HVDPE test (8 hours) will be performed in each of the above-mentioned wells.
- Over the remaining days, a constant-rate performance test will be performed simultaneously in two or more wells. Additional wells (other than MW-2, MW-3, and MW-4) may alternately be involved in the test. As the test progresses, Petra will evaluate

rates and quantities of hydrocarbon removal and add wells to the extraction program, as appropriate.

- Influent individual well and combined wells vapor samples will be collected during the short-term tests and the constant-rate test. The samples will be analyzed to evaluate vapor extraction effectiveness and to determine mass removal rates.

- The selected remedial action alternative will be evaluated for technical feasibility and economic feasibility will be discussed in the Pilot Test and Interim Remediation Report.

During the HVDPE pilot test, data will be collected to evaluate the effectiveness of HVDPE for removing free product from groundwater and volatile organic compounds (VOC) adsorbed to saturated and unsaturated zone soil, and to obtain the following specific design information:

- The area of influence from each extraction well and the induced vacuum achieved at each observation well under optimum HVDPE system operating conditions.

- The airflow requirements required to effectively influence the target areas at the site.

- The hydrocarbon destruction rates that can be obtained during operation of the HVDPE system.

If the technology is shown to be effective at the site, the data obtained from the pilot test will be used to design a full-scale HVDPE treatment system, which may include the intermittent use of a mobile HVDPE system to occasionally remediate the site over a period of time. To implement the HVDPE feasibility pilot test and interim remediation, Petra proposes to complete the following tasks:

Task #1 Permitting

Petra will contract with CalClean Inc. to perform the HVDPE test at the site. CalClean has already obtained a various locations permit from the San Diego Air Pollution Control District. CalClean will notify the APCD of the startup date at the site. CalClean will also obtain a sewer discharge permit/approval from the City of San Diego and Padre Dam Municipal Water Resources Agency.

Task #2 Health and Safety Plan

Prior to conducting all field activities, a Health and Safety Plan will be prepared outlining all field activities to be performed at the site during the pilot testing activities. A copy of the Health and Safety Plan will be available onsite during all field activities.

Task #3 Initiation of HVDPE Pilot Test

The HVDPE pilot test will be performed to obtain in-situ field data to evaluate contaminant removal rates and to determine the special distribution of airflow within the zone of influence (radius of influence) of the extraction wells. Petra will subcontract a mobile high vacuum treatment system capable of extracting free product and soil vapor from the subsurface.

The HVDPE system will be coupled to a thermal oxidizer used to treat extracted soil vapor in accordance with permit conditions established by the San Diego APCD.

Task #4 Sample Collection

Soil vapor samples collected during the HVDPE pilot test will be collected in laboratory supplied Tedlar™ bags. Soil vapor samples will be labeled with the sample ID and location, date and time, and name of sampler. The samples will be stored at ambient temperature in a cooler that protects the samples from direct sunlight. The samples will be shipped to the laboratory under chain-of-custody documentation and analyzed on a standard turn-around-time (TAT). Selected vapor samples will be analyzed by a state-certified laboratory for the presence of TPHg and BTEX compounds by EPA Methods 8015 and 8021. A duplicate sample of the vapor sample with the highest concentrations of constituents of concern may be analyzed for TPHg by EPA Method TO-3 and VOCs by EPA Method TO-15.

Task #5 Handling of Extracted Groundwater

Depending on the amount of groundwater extracted at the site during the HVDPE test, the extracted groundwater will be placed in one or more storage containers ranging in size from 55-gallon drums to a 21,000-gallon storage tank. Some of the extracted groundwater will be beneficially reused/recycled daily as makeup water in CalClean's water-based liquid ring pump system which loses approximately 100-500 gallons per day in operation. The remaining extracted water will be treated in activated carbon canisters to the sewer permit requirements for discharge to the sanitary sewer system.

Task #6 Data Analysis and Report Preparation

Field data collected during the HVDPE pilot test and interim remediation will include applied vacuum, airflow rates, soil pressures, and influent contaminant concentrations. The tabulated data collected during the pilot test and interim remediation will be used to generate the following plots/diagrams:

- Soil vapor cumulative removal rate versus time;
- Influent vapor concentrations versus time;
- System flow diagram and description of system used for the pilot test; and
- Applied vacuum and flow rate data versus time.

Following completion of the pilot test and data analysis, Petra will prepare a report of the pilot test and interim remediation activities and results. The report will document the pilot testing and interim remediation activities and provide an evaluation of the test data and an assessment of the feasibility of HVDPE for site remediation.

SCHEDULE OF ACTIVITIES

Petra will begin permitting after receiving written approval of this work plan from the SAM Program. We anticipate the report documenting the pilot test and interim remediation activities and results would be completed and submitted within 30 days of the completion of the pilot test.

REFERENCES

California Regional Water Quality Control Board, San Diego Region, 1994, *Water Quality Control Plan for the San Diego Basin (9)*, September 8.

County of San Diego, 1993, *Notice of Violation, El Capitan Oil Company, 11427 S. Woodside Avenue, Santee, California 92071,* Department of Environmental Health, Hazardous Materials Management Division, August 19.

EnecoTech Southwest, Inc. (EnecoTech) 2005, *Revised Work Plan for Additional Site Assessment, 11427 Woodside Avenue, Santee, California, H19469-001/T0948/APN 382-320-06*, Project No. 1689-001 (BG 020), March 25.

EnecoTech, 2003, *Comprehensive Site Assessment, Wigington Petroleum, 11427 Woodside Avenue, Santee, California 92071, H19469-001/T0948/APN 382-320-06*, Project No. 1689-001 (BG 015), March 7.

EnecoTech, 2002, *Additional Site Assessment, Wigington Petroleum, 11427 Woodside Avenue, Santee, California, T0948/H19469-001/APN 382-320-06*, Project No. 1689-001 (BG 007), June 21.

Norris, R. M. and Webb, R. W., 1990, *Geology of California, Second Edition*, John Wiley & Sons, Inc.

Strand, R. G., 1962 (Fourth printing 1992), *Geologic Map of California, Olaf P. Jenkins Edition, San Diego-El Centro Sheet*, California Division of Mines and Geology, Scale 1:250,000.

Tan, S. S., 2002, *Geologic Map of the El Cajon 7.5' Quadrangle, San Diego County, California: a Digital Database*, Department of Conservation, California Geological Survey, scale indicated 1:24,000.

Todd, Victoria R., 2004, *Preliminary Geologic Map of the El Cajon 30"X60' Quadrangle, Southern California, Version 1.0*, U. S. Department of the Interior, U. S. Geologic Survey, Open File Report 2004-1361, scale indicated 1:100,000.

San Diego County

12225 World Trade Drive, Suite P
San Diego, California 92128
858-485-5530

PETRA

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it's in our science

Engineers, Geologists
Environmental Scientists

December 21, 2007
J.N. 252-06

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ENVIRONMENTAL HEALTH

Ms. Linda Wigington
WIGINGTON PETROLEUM, INC.
c/o William L. Fischbeck, Esq.
Fischbeck & Oberndorfer
5464 Grossmont Center Drive, Third Floor
La Mesa, California 91942

Subject: **Addendum to Revised Work Plan for Additional Site Assessment, El Capitan Oil Company, 11427 Woodside Avenue, Santee, California. DEH Unauthorized Release No. H19469-001**

Dear Ms. Wigington:

Petra Geotechnical, Inc. (Petra) is pleased to present this addendum to revised work plan for additional site assessment activities at El Capitan Oil Company, a fuel service facility located at 11427 Woodside Avenue in Santee, California (Figure 1). This revised work plan has been prepared pursuant to the requirements of the San Diego County Department of Environmental Health, Site Assessment and Mitigation (SAM) Program and at the request and authorization of Ms. Linda Wigington (client).

Should you have any questions regarding this work plan, please call the undersigned at (858)485-5530.

Respectfully submitted,
Petra Geotechnical, Inc.

PROFESSIONAL GEOLOGIST
JAMES S. OLBINSKI
NO. 1462
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

James S. Olbinski, CEG 1462
Associate Geologist

PROFESSIONAL GEOLOGIST
CHARLES E. HOUSER
NO. 2206
CERTIFIED
ENGINEERING
GEOLOGIST
9/07
STATE OF CALIFORNIA

Charles E. Houser, CEG 2206
Associate Geologist

JSO/CEH/JJ

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Distribution: (1) Addressee c/o William L. Fischbeck, Esq. Fischbeck & Oberndorfer, via U.S. Mail
(1) San Diego County, SAM Program, Ms. Teresa E. Sherman, via Hand Delivery

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FIGURE 1 Site Location Map
FIGURE 2 Site Plan
FIGURE 3 Proposed Well Location Map

ADDENDUM TO REVISED WORK PLAN FOR ADDITIONAL SITE ASSESSMENT, EL CAPITAN OIL COMPANY, 11427 WOODSIDE AVENUE, SANTEE, CALIFORNIA DEH UNAUTHORIZED RELEASE NO. H19469-001

INTRODUCTION

Petra Geotechnical, Inc., (Petra) is pleased to submit this addendum to the revised work plan for additional site assessment activities at El Capitan Oil Company fuel services facility located in Santee, California (Figure 1). This addendum has been prepared pursuant to the requirements of the San Diego County Site Assessment and Mitigation (SAM) Program (Co. of San Diego, 2007), and in accordance with the contract between Petra and Ms. Linda Wigington (client).

SITE DESCRIPTION

Site Identification

Site Name:	Former El Capitan Oil Company
Site Address:	114276 Woodside Avenue, Santee, California
A.P.N.:	382-320-06
DEH Case:	H19469-001

Site History

The site is located in central San Diego County in the community of Santee (Figure 1). A reported total of 13 underground storage tanks (USTs) have been removed from the site between 1987 and 1998. Results of sampling conducted during UST removal activities indicated that a release of petroleum hydrocarbons had occurred from the UST system. The County of San Diego, Hazardous Materials Management Division (HMMD) issued a letter requiring corrective action relative to the release (HMMD, August 19, 1993).

During 1988 through 2005, EnecoTech Southwest, Inc. (EnecoTech) conducted assessment activities at the site (EnecoTech, 2002, 2003 & 2005). A total of 18 borings and 8 groundwater monitoring wells have been drilled and sampled at the site. The 8 existing wells are depicted on Figure 2. Based on the results of assessment activities conducted to date, it appears the extent of

petroleum hydrocarbon-impacted groundwater has not been fully delineated. Additional delineation is required to the southwest, south and east of the former UST system.

On March 25, 2005, EnecoTech submitted a workplan for additional site assessment (EnecoTech, 2005). In a letter dated ~~October 10, 2007~~ April 21, 2005, the SAM Program approved this workplan. Petra discussed adding a well to the proposed and approved work with SAM Program personnel. It was agreed that a workplan addendum for the additional well should be submitted for approval.

During groundwater monitoring and sampling activities conducted by Petra on October 25, 2007, phase-separated petroleum hydrocarbons (free product) were detected in wells MW-2, MW-3 and MW-4 (Report in progress). This workplan addendum is for the addition of one well to the approved assessment program, and for periodic monitoring and removal of free product from wells at the site.

GEOLOGY

Regional Geology

The site is located in the Peninsular Ranges Geomorphic Province of Southern California. This province is typified by northwest to southeast-trending mountain ranges approximately parallel to the San Andreas and related regional fault systems. The plutonic rocks of the Peninsular Ranges are generally characterized as granitic rocks of the Southern California batholith (Norris & Webb, 1990) in association with lesser amounts of metamorphic rocks. Sedimentary rocks ranging in age from Cretaceous to Pleistocene form the San Diego embayment and coastal terraces west of the batholith.

As interpreted from regional geologic maps (Strand, 1962, Tan, 2002 and Todd, 2004), geologic materials underlying the site may include Quaternary-aged alluvium and colluvium. The more detailed geologic map of Tan (Tan, 2002) identifies Pleistocene alluvial deposits underlying the

site and describes these sediments as "moderately consolidated, poorly sorted flood plain deposits consisting of gravelly, sandy silt and clay." These sediments are in unconformable contact with underlying bedrock.

The regional geologic maps have identified bedrock in the near vicinity as being "granitoid" (Todd, 2004). Tan (Tan, 2002) has mapped Cretaceous-aged tonalite immediately south of the site. The tonalite was described as including "some granodiorite and quartz diorite, medium-grained, generally dark colored and severely weathered." Based upon the referenced regional mapping, the site is most likely to be underlain by Cretaceous-aged tonalite. The top of the granitic composition bedrock is typically highly weathered to an as yet undetermined depth.

Past reports regarding this site have incorrectly referenced CDMG Bulletin 200 (Kennedy and Peterson, 1972) in the "Area Geology" sections of their reports (EnecoTech, 2002 & 2003). The site is located in the El Cajon, 7½-minute Quadrangle, which is not a part of CDMG Bulletin 200.

Site-Specific Geology

Based on a review of EnecoTech reports and our experience in the site vicinity, it appears the site is underlain by alluvium and slopewash. These materials appear to be, in turn, underlain by weathered granitic bedrock which also comprises the highlands to the south of the site.

HYDROGEOLOGY

Based on review of a document titled *Water Quality Control Plan, San Diego Basin - Region 9*, (approved by the California Regional Water Quality Control Board September 8, 1994), the site is interpreted to lie within the Regional Water Quality Control Board (RWQCB), San Diego Basin Region 9, Santee Hydrologic Sub Area (7.12) of the Lower San Diego Hydrologic Area (7.10) of the San Diego Hydrologic Unit (7.00). According to the RWQCB, surface water in the area has existing beneficial use for industrial and agricultural, purposes and exempted potential

use for municipal purposes. According to this RWQCB document, the groundwater in the Santee Hydrologic Sub Area has been classified as having existing beneficial uses for municipal, agricultural, industrial and industrial process supply purposes.

According to previous reports referenced above, groundwater is present at depths ranging from approximately 29.45 to 31.90 feet below grade. The groundwater flow direction has been interpreted, in the referenced reports (EnecoTech, 2002 and EnecoTech, 2003), to be generally toward the west-southwest.

OBJECTIVES

The objective of the proposed scope of services is to assess the extent of groundwater with dissolved petroleum hydrocarbons southwest, south and east of the USTs.

SCOPE OF SERVICES

TASK I—PREPARATION FOR FIELDWORK

Soil Boring Permit Application

As required by San Diego County, Department of Environmental Health (DEH), a permit application for the wells will be prepared and submitted to the DEH with the proper fee. The permit application will be signed by an appropriately licensed professional.

Site Health and Safety Plan

A site health and safety plan (Plan) is required for the work conducted at the site by workers within the "exclusion zone" pursuant to the regulations in 29 Code of Federal Regulations (CFR) Part 1910.120 and Title 8 California Code of Regulations (CCR) Section 5192. A Plan shall be prepared which outlines the potential chemical and physical hazards that may be encountered during the drilling and sampling activities. The appropriate personal protective equipment and emergency response procedures for the site-specific chemical and physical hazards will be

detailed in this Plan. All field personnel involved with the fieldwork will be required to read and sign the document in order to encourage proper health and safety practices.

Utility Search and Markout

Prior to drilling, Petra will contact Underground Service Alert (USA) and contract with a private underground utility search company to attempt to locate subsurface utilities and improvements at the site to minimize the likelihood of drilling into an underground utility.

TASK II—FIELDWORK

Well Drilling and Installation

In addition to the nine wells already approved on-site or in the site vicinity, a tenth groundwater monitoring well will be drilled and sampled on-site. Proposed well locations are shown on Figure 3. The additional well will be located in the west corner of the site. Drilling will be conducted by using a truck-mounted drill rig. A California-registered geologist, or a geologist under the direct supervision of the registered professional, will be on site to observe the drilling activity and describe collected soil samples. Soil samples will be described in general accordance with the Unified Soil Classification System. Rock samples will be described using an appropriate method.

During the drilling of all of the proposed wells, soil samples will be collected at a minimum of 5-foot intervals, and at interpreted significant changes in lithology, with a split-spoon or similar sampler. Soil samples will be driven, when possible, into brass or stainless steel tubes. The tubes will be covered with Teflon sheeting, tightly closed with end caps, labeled, and submitted to a state-accredited laboratory for analysis. Chain-of-custody procedures will be implemented for sample tracking.

* when contamination indicated or was previously discovered

As required by San Diego County guidelines, the augers will be either pre-cleaned or pressure cleaned on-site between soil borings to minimize the likelihood of "cross-contaminating" the

borings and to minimize the potential for a "false positive" in the soil samples analyzed. Soil sampling equipment will be cleaned between sampling events with an Alconox-water wash, followed by a tap water rinse and a final rinse with distilled water.

The wells will be constructed of 2-inch diameter PVC well casing and screen. Wells will be constructed and sampled in general accordance with SAM Program guidelines. During installation, the wells will be developed by surging. The wells will be sampled at least 72-hours after development. The collected groundwater samples will be decanted into laboratory-supplied vials, labeled, and submitted to a state-accredited laboratory for analysis. Chain-of custody procedures will be implemented for sample tracking.

2 and 4 per CH

Soil cuttings, purge water, and wash water (collectively called investigative derived waste [IDW]) will be placed in appropriate drums, labeled, and left on-site pending disposal.

Sample Analysis

All soil samples will be submitted to a state-accredited laboratory and analyzed for total petroleum hydrocarbons as gasoline and as diesel fuel (TPHg and TPHd) in general accordance with modified EPA Method 8015. In addition, the soil sample with the highest reported TPHg concentration per soil boring, or the soil sample nearest the field-interpreted water table, will also be analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary butyl ether (MTBE), and oxygenates in general accordance with EPA Method 8260B.

All groundwater samples will be analyzed for TPHg and TPHd in general accordance with modified EPA Method 8015, and for BTEX, MTBE, and oxygenates in general accordance with EPA Method 8260B.

naphthalene covered by 8260B

PHASE III—PREPARATION OF REPORT OF FINDINGS

At the completion of field and analytical activities, a report will be prepared. The report will include copies of laboratory reports, copies of chain-of custody documents, copies of applicable permits, illustrations reflecting the sampled subsurface, lithologic logs of the well borings, tabulated analytical results, and appropriate support documentation. The report will include a description of the work performed, discussion of the results, and our conclusions and recommendations as deemed appropriate. The report will be peer reviewed and signed by a California Registered Geologist or Certified Engineering Geologist. In addition to the above-described report, a "sixty day" report will be prepared and submitted to the DEH to comply with the requirements of the soil boring permits.

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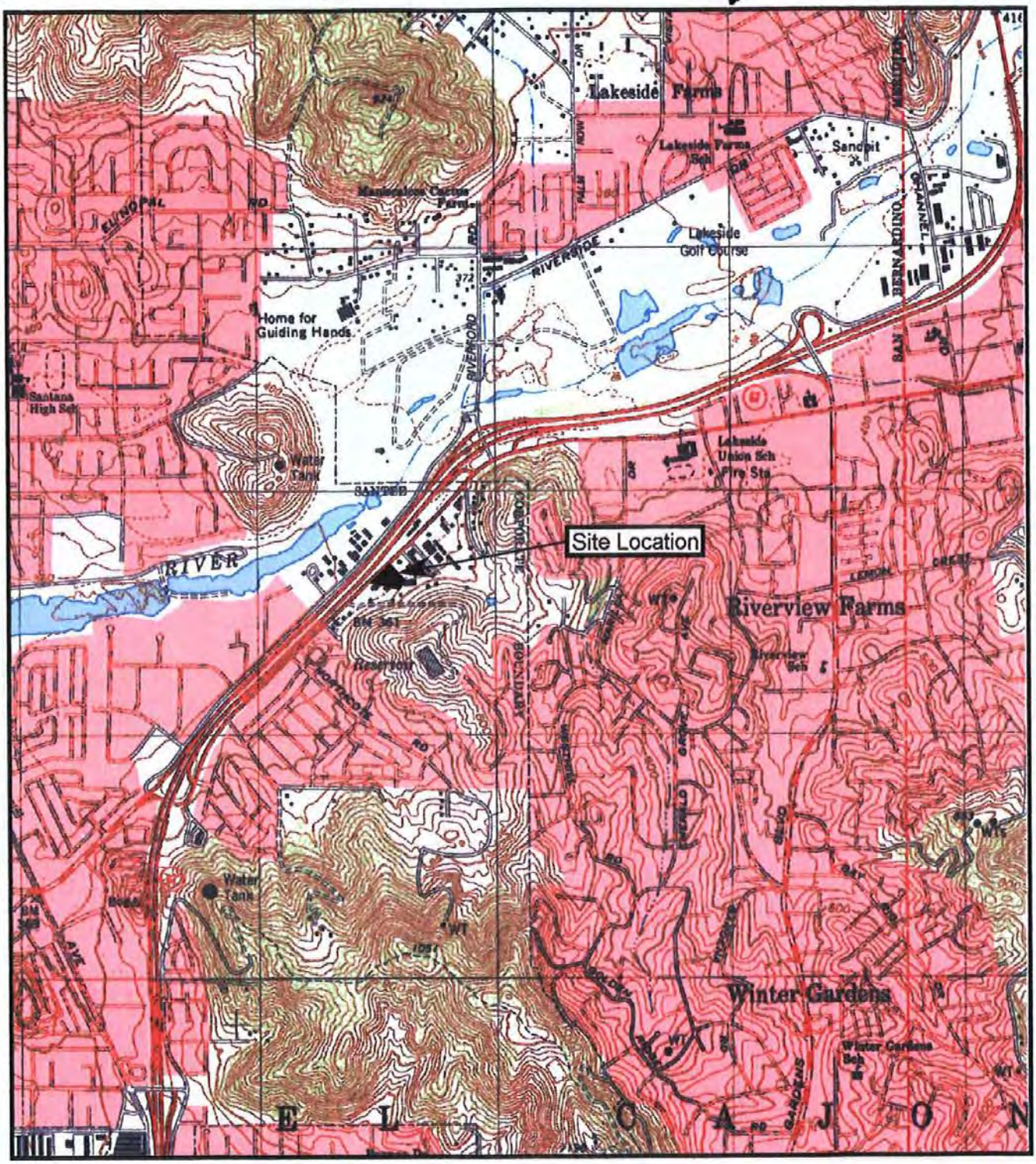
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FIGURES

PETRA



Base Map: USGS 7.5-Minute Topographic Map, El Cajon Quadrangle, 1996.

0 0.5
GRAPHIC SCALE (in miles)

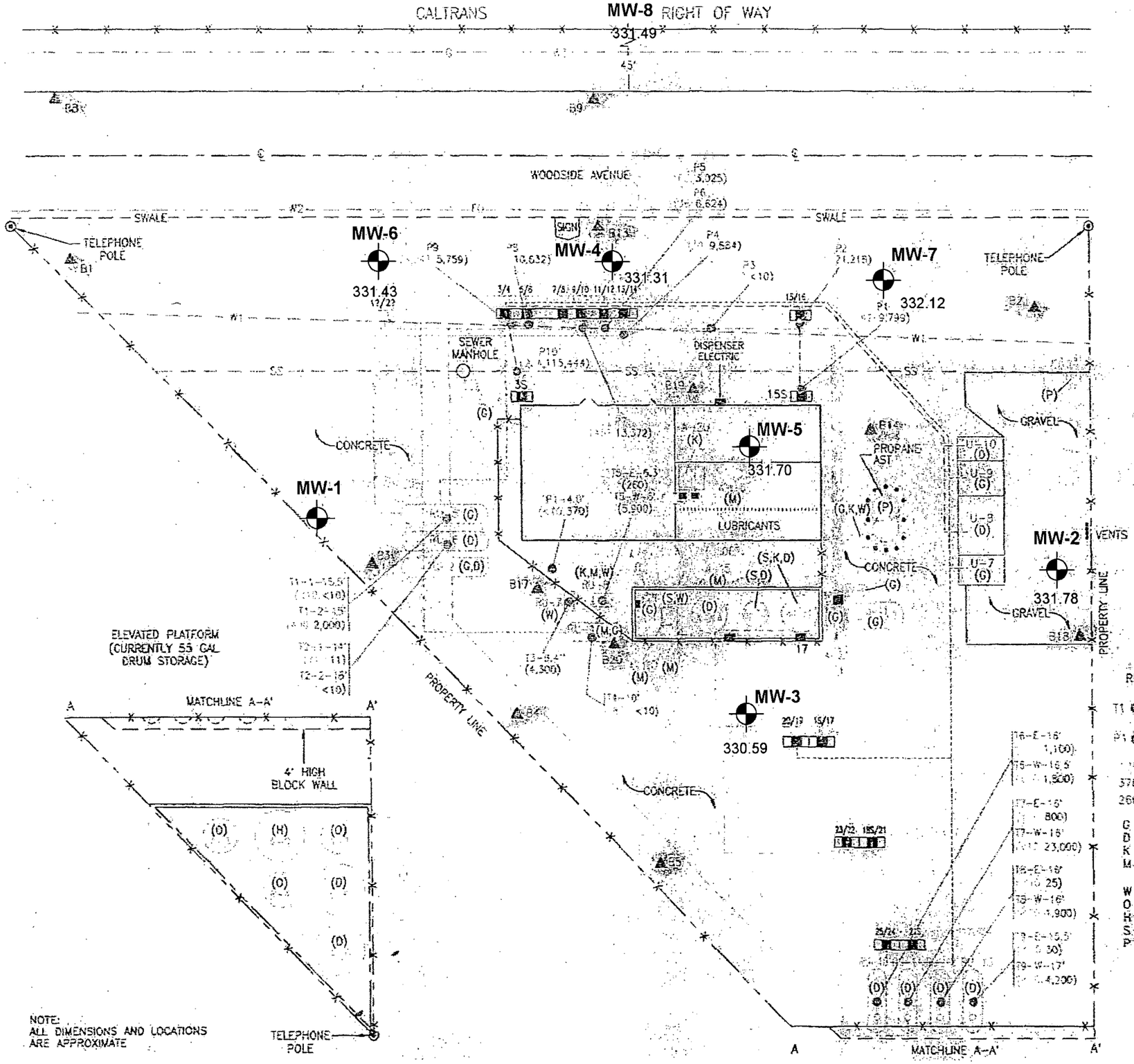
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PETRA GEOTECHNICAL, INC.
12225 WORLD TRADE DRIVE, SUITE P
SAN DIEGO, CALIFORNIA 92128
PHONE: (858) 485-5530
COSTA MESA MURRIETA PALM DESERT SAN DIEGO SANTA CLARITA

SITE LOCATION MAP

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE: Dec. 2007	J.N.: 252-06	**FIGURE 1**
DWG BY: WBS	SCALE: See Left	



LEGEND

- MW-1 – MONITORING WELL WITH DESIGNATION
- B18 – BORING AND DESIGNATION
- 3/4 – DISPENSER ISLAND WITH DISPENSERS IN BLACK
- – FORMER DISPENSER
- – (4) UST's REMOVED IN MAY 1988 (LOCATION APPROXIMATE)
- – (1) UST's INSTALLED IN MAY 1988
- – (9) UST's REMOVED IN MAY 1998 (LOCATION APPROXIMATE)
- – (1) UST INSTALLED IN 1998 (4 COMPARTMENT)
- – ABOVE GROUND STORAGE TANK LOCATION (APPROXIMATE)
- U-8 – UST DESIGNATION
- – AST DESIGNATION
- – CONVAULT-TYPE TANK
- – AST SECONDARY CONTAINMENT
- – REMOVED UST DESIGNATION
- – REMOVED AST DESIGNATION
- – FENCE

UTILITIES
- SS – SANITARY SEWER
- W1 – 6" WATER
- W2 – 4" WATER
- G – 2" + 6" NATURAL GAS
- W3 – 3" WATER
- FO – FIBER OPTICS

PRODUCT LINES
- – GASOLINE
- – DIESEL

REMOVED SAMPLES (mg/kg)
- T1 @ – TANK REMOVAL SAMPLE
- P1 @ – REMOVED PRODUCT LINE SAMPLE
- 370 TPHd
- 260 TRPH

- G – GASOLINE
- D – DIESEL
- K – KEROSINE
- M – MINERAL SPIRITS (SOLVENT)
- W – WASTE OIL
- O – FRESH OIL
- H – HYDRAULIC FLUID
- S – STOVE OIL
- P – PROPANE

N W E S

0 30

APPROXIMATE GRAPHIC SCALE (in feet)

BASE MAP: EnecoTech ENVIRONMENTAL CONSULTANTS

PETRA GEOTECHNICAL, INC.
12225 WORLD TRADE DRIVE, SUITE P
SAN DIEGO, CALIFORNIA 92128
PHONE: (858) 485-5530
COSTA MESA MURRIETA PALM DESERT SAN DIEGO SANTA CLARITA

SITE PLAN

Wigington/El Capitan Oil
11427 Woodside Ave.
Santee, CA

DATE: Dec. 2007	J.N.: 252-06	**FIGURE 2**
DWG BY: DBS	SCALE: 1" = 30'	

APPROXIMATELY 150 FT. TO SAN DIEGO RIVER SURFACE WATER

400'

BLUE STAR STEEL
11322

CARSON
TRAILER

THAVLIN' RV
11370

THUNDERWORKS/
ELIMINATOR
BOATS
11420

TERRA TRAILER
& TRUCK
11424

AUTO CORRAL
AC TRUCK
BODIES
11440

TOYOTA
LIFT
11446

RICHS
MACHINE
11448

VALLEY
TRACTOR

0 50 100
SCALE IN FEET

NORTH WOODSIDE AVE

B16 SHOULDER B10 B11 B12 B15

HIGHWAY 67 SOUTH BOUND

BOX CULVERT CENTER DIVIDER

HIGHWAY 67 NORTH BOUND

TRAILER
STORAGE

MW8

SHOULDER B7 B6 B8 B9 B13

11421
WESTERN STATES
FIRE PROTECTION

11427

B1 MW6 MW4 MW7 B2

11433
MOUSER
ELECTRONICS

RAYO
WHOLESALE

PETER GAUGHEN'S
CHRISTMAS
TREES

ACCESS RD

CREEKSIDE
APARTMENTS

KARERLYN DR.

ORBIS DISTRIBUTORS
FLOORS GALORE

B19 MW5 B14

MW1 B3 B1 MW2 B18

B20 MW3 B4 B5

LEGEND

- MONITORING WELL LOCATION
- BORING LOCATION
- FENCE
- NEW WELL PLANNED

BASE MAP: Modified after EnecoTech Figure 3, March 7, 2003.

PETRA GEOTECHNICAL, INC.
12225 WORLD TRADE DRIVE, SUITE P
SAN DIEGO, CALIFORNIA 92128
PHONE: (858) 485-5530
COSTA MESA MURRIETA PALM DESERT SAN DIEGO SANTA CLARITA

PROPOSED WELL LOCATION MAP

11427 Woodside Avenue, Santee, California

DATE: Dec. 2007	J.N.: 252-06	FIGURE 3
DWG BY: JSO	SCALE: 1"=100'	

San Diego County

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San Diego, California 92128
858-485-5530

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PETRA

past + present + future
it's in our science

Engineers, Geologists
Environmental Scientists

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ENVIRONMENTAL HEALTH

September 19, 2008
J.N. 252-06

Ms. Linda Wigington
WIGINGTON PETROLEUM, INC.
c/o William L. Fischbeck, Esq.
5464 Grossmont Center Drive, Third Floor
La Mesa, California 91942

Subject: **Report of Site Assessment Activities, Wigington Petroleum, 11427 Woodside Avenue, Santee, California, T0948/H19469-001/APN 382-320-06**

Dear Ms. Wigington:

The Environmental Division of Petra Geotechnical, Inc. (Petra) is pleased to present this report of site assessment activities conducted at the above-referenced site. The assessment was conducted in general accordance with the requirements of the San Diego County, Site Assessment and Mitigation (SAM) Program, the scope of services outlined in our proposal number 1497-04 dated September 13, 2005. The work was authorized by Ms. Linda Wigington (client).

If there are any questions or comments regarding the scope of work performed or methodology, please call the undersigned at (858) 485-5530.

Respectfully submitted,

Petra Geotechnical, Inc.
ENVIRONMENTAL DIVISION

Douglas B. Stephenson
Senior Staff Geologist
9/19/08

James S. Olbinski, C.E.G. 1462
Associate Geologist
9-22-08

PROFESSIONAL GEOLOGIST
JAMES S. OLBINSKI
NO. 1462
CERTIFIED
ENGINEERING
GEOLOGIST
11-09
STATE OF CALIFORNIA

DBS/JSO/CEH/JL/jj
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Distribution: (1) Addressee, via U.S. Mail
(1) County of San Diego, SAM Program, via Hand Delivery
(1) Cleanup Fund, via Reimbursement Request via Ontrac

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REPORT OF SITE ASSESSMENT ACTIVITIES

Wigington Petroleum
11427 Woodside Avenue
Santee, California

INTRODUCTION

Petra Geotechnical, Inc. (Petra) is pleased to submit this report of soil and groundwater assessment activities at the former Wigington Petroleum site located in Santee, California (Figure 1). This work has been conducted in general accordance with the County of San Diego Site Assessment and Mitigation (SAM) Program.

SITE LOCATION AND DESCRIPTION

The site is located at 11427 Woodside Avenue in the City of Santee located in central San Diego County (Figure 1). The site is a triangular-shaped parcel occupied by one commercial building and 18 fuel dispensers on seven fuel dispenser islands (Figure 2). The elevation at the site is approximately 365 feet above mean sea level (msl). Land use in the site vicinity is predominantly commercial and light industrial, with some residential to the northeast.

Site Name:	*Wigington Petroleum*
Site Address:	*11427 Woodside Avenue, Santee, CA*
APN:	*382-320-06-00*
SAM Program Case No.:	*H19469-001*

SITE BACKGROUND

Based on review of SAM Program files for the site, we understand the following:

- EnecoTech Southwest, Inc. (EnecoTech) reported that in 1988 four underground storage tanks (USTs) were removed from the site (EnecoTech, 2002). Analytical results from soil samples collected during the removal operations included identification of 1,300 mg/kg total extractable hydrocarbons (TEH) and 65 mg/kg of benzene. An Unauthorized Release was stated to have been reported, referencing an April 18, 1988 date (EnecoTech, 2002). The Unauthorized Release Report was reportedly submitted to the County of San Diego, Hazardous Materials Management Division (HMMD) (EnecoTech, 2002).

- In 1988, a site assessment was performed by EnecoTech wherein eleven soil borings were drilled and sampled. Four of the borings were completed as groundwater monitoring wells. Analytical results from soil samples indicated concentrations of total petroleum hydrocarbon as gasoline (TPHg) up to 440 mg/kg and no detectable concentrations of benzene. Analysis of groundwater samples indicated "measurable levels" of Total Extractable Hydrocarbons (TEH), benzene, toluene, and xylenes (EnecoTech, 1988).

- On August 19, 1993, The County of San Diego, Hazardous Materials Management Division (HMMD) issued a Notice of Violation To El Capitan Oil Co. requiring corrective action relative to the release (HMMD, 1993).

- In October 1997, single-walled product piping was removed from the site. Laboratory analytical results from the collected soil samples indicated concentrations of TPHg of up to 3,043 mg/kg and concentrations of total petroleum hydrocarbons as diesel (TPHd) of up to 115,444 mg/kg (EnecoTech, 2002).

- Subsequent groundwater sampling of the site took place in March 1998, wherein analytical results indicated "dramatically" increased concentrations of petroleum hydrocarbons, benzene, toluene, and xylenes over the previous 1988 results (EnecoTech, 2002).

- In April 1998, nine USTs were reportedly removed under HMMD permit AT4031. Soil analytical results indicated up to 840 mg/kg TPHg, 23,000 mg/kg TPHd, 0.12 mg/kg benzene, and 3.7 mg/kg MTBE (EnecoTech, 2002).

- EnecoTech reportedly produced a document titled "Work Plan for Environmental Services," dated March 14, 2000 (EnecoTech, 2003). This work plan proposed installing two additional groundwater wells. The SAM Program reportedly assumed oversight responsibility of UST assessment and mitigation in mid-1993 (EnecoTech, 2003). Based on subsequent groundwater monitoring results the SAM Program reportedly directed, in a letter dated May 8, 2000, that four additional wells, instead of two, be installed (EnecoTech, 2003). In February 2002, EnecoTech supervised the installation of two monitoring wells (MW6 and MW7) (EnecoTech, 2003). In April 2002, MW8 was placed in the median across Woodside Avenue (EnecoTech, 2003).

- Field exploration for a comprehensive site assessment was conducted in December 2002 by EnecoTech using temporary wells to aid in defining the extent of groundwater impact (EnecoTech, 2003a, and 2003b).

- By the end of 2003, a total of 18 soil borings and 8 groundwater monitoring wells had been drilled at the site and in the immediate site vicinity (EnecoTech, 2003). EnecoTech reported that results of analysis of soil and groundwater samples collected at the site

during assessment activities indicated that a release of petroleum hydrocarbons has occurred from the UST system.

- Based on the results of their site assessment activities, EnecoTech recommended performing additional site assessment work to 1) identify the potential source(s) of contamination and 2) delineate soil and groundwater impact both on and offsite (EnecoTech, 2003).

- On March 25, 2005, EnecoTech submitted a workplan (EnecoTech, 2005) for the drilling and installation of nine additional monitoring wells. In a letter date October 10, 2007 (SAM, 2007), the SAM Program approved the workplan.

In 2006, Petra was retained to conduct the approved site assessment work. Petra discussed adding a well to the proposed and approved work with SAM Program in phone conversations and e-mail correspondence (C. E. Houser, personal communication). It was agreed that a workplan addendum for the additional well should be submitted for approval with the requirement that quarterly groundwater monitoring be performed.

On December 21, 2007, Petra submitted an addendum to the revised workplan to include a tenth monitoring well to be installed in the western corner of the site (Petra, 2007). The addendum to the revised work plan was approved by the SAM Program in a letter dated January 15, 2008 (SAM, 2008a).

During groundwater monitoring and sampling activities conducted by Petra on October 25, 2007, phase-separated petroleum hydrocarbons (free product) were detected in wells MW-2, MW-3 and MW-4 (Petra, 2008a). Due to the presence of free product in three of the site wells, Petra submitted a workplan for a high vacuum dual phase extraction (HVDPE) pilot test. The objective was to evaluate the potential effectiveness of HVDPE as an alternative for remediation of free product and contaminated groundwater at the site. This workplan was approved by the SAM Program on January 16, 2008 (SAM, 2008b). Petra retained CalClean, Inc. (CalClean) to perform the HVDPE pilot test and interim remediation activities from January 22 to February 24, 2008. Results from this HVDPE event have been reported (Petra, 2008e).

OBJECTIVES

The objective of the proposed scope of services was to assess the extent of soil and groundwater with petroleum hydrocarbons impacts associated with the release from the former USTs.

SCOPE OF WORK

TASK 1 – PREPARATION FOR FIELDWORK

Soil Boring Permit Application

As required by the SAM Program, a permit application for monitoring wells was prepared by Petra and submitted with the proper fee. The permit application was approved on January 29, 2008 and issued with permit number LMON105428. A copy of the approved permit is included in Appendix A.

Traffic Control Plan and Encroachment Permit Application

As required by the City of Santee, an encroachment permit application was prepared by Petra and submitted with the proper fee, for five of the proposed well locations. As required by the encroachment permit process, a traffic control plan was also prepared. Petra retained Traffic Control Services, Inc. to prepare and implement the appropriate traffic control for the drilling of the five wells covered by the encroachment permit issued by the City of Santee. The traffic control plan was submitted to the City of Santee as part of the encroachment permit. The encroachment permit application was approved effective November 1, 2006 (Appendix A). An encroachment permit extension was filed and approved effective December 12, 2007. A copy of the encroachment permit extension is included in Appendix A.

Site Health and Safety Plan

A site health and safety plan (Plan) is required for the work conducted at the site by workers within the exclusion zone pursuant to the regulations in 29 Code of Federal Regulations (CFR)

Part 1910.120 and Title 8 California Code of Regulations (CCR) Section 5192. A Plan was prepared which outlined the potential chemical and physical hazards that may be encountered during the drilling and sampling activities. The appropriate personal protective equipment and emergency response procedures for the site-specific chemical and physical hazards were detailed in this Plan. All field personnel involved with the fieldwork were required to read and sign the document in order to encourage proper health and safety practices.

Utility Search and Markout

Prior to drilling, Petra contacted Underground Service Alert (USA) to attempt to locate subsurface utilities and improvements at the site. In addition, Petra retained Southwest Geophysics, Inc., a private subsurface imaging company, to survey the proposed drill site for subsurface utilities. USA issued six ticket numbers for the various monitoring well locations:

- Ticket A80310132 was issued for drilling activities on site (11427 South Woodside Avenue);
- Tickets A80350799 and A80350811 were issued for the north shoulder along South Woodside across from 11421 South Woodside and the intersection of Karerllyn and South Woodside Ave.; respectively (locations abandoned), as well as at 11433 South Woodside Ave;
- Ticket A80350871 was issued for locations on North Woodside Ave. in front of 11322, 11370, and 11424 North Woodside Ave.;
- Ticket A80390907 was issued for 11421 South Woodside Ave.; and,
- Ticket A80391541 was issued for the bike lane across from 11421 Woodside and the intersection of Karerllyn and South Woodside Avenues.

USA notified AT&T, Cox Communications, San Diego County Department of Power and Water – Wastewater Management (SD DPW), CPL for SD DPW, Helix Water District, Level 3 Communication, Padre Dam Municipal Water District, City of San Diego Water and Water Production, SDG&E, and the City of Santee of the proposed drilling activity.

TASK 2 – FIELDWORK

Well Drilling and Soil Sampling

On February 4 and 5, 2008, two groundwater monitoring wells (MW-9 and MW-10) were drilled and installed by Petra personnel at the former Wigington Petroleum site. Well MW-9 was drilled in the western corner of property and well MW-10 was drilled toward the east corner of the site, approximately 10 feet south of the southeastern-most fuel dispenser island.

On February 8, 2008, two groundwater monitoring wells (MW-11 and MW-12) were drilled and installed off site to the west of the site across State Route 67 on North Woodside Avenue. A third well was proposed to be installed in this vicinity; however, this well was not drilled due to utility conflicts.

The remaining five proposed groundwater monitoring wells (MW-13 through MW-17) were drilled and installed February 18 and 19, 2008, in the westerly and easterly neighboring properties and in the bike lane of Woodside Avenue. The surveyed locations of all site-assessment wells are depicted on Figure 2. The wells were drilled and constructed to depths ranging from approximately 38 feet to 45 feet below grade. Drilling was conducted using a truck-mounted, hollow-stem auger drill rig operated by Test America Drilling Corporation. A California-professional geologist, or a geologist under the direct supervision of the registered professional, was on-site to observe the drilling activity and describe collected soil samples. Soil samples were described in general accordance with the Unified Soil Classification System. Logs of wells MW-9 through MW-17 were prepared by Petra and are included in Appendix B.

During drilling of the wells, soil samples were collected at approximately 5-foot intervals with a split-spoon or similar sampler. Soil samples were driven into stainless steel tubes. The tubes were covered with Teflon sheeting, tightly closed with end caps, labeled and submitted to a state-accredited laboratory for analysis. Chain-of-custody procedures were implemented for sample tracking.

As required by SAM Program guidelines, the augers were pre-cleaned and pressure cleaned on-site between soil borings to minimize the likelihood of cross-contaminating the borings and to minimize the potential for a false positive in the soil samples analyzed. Soil sampling equipment was cleaned between sampling events with an Alconox-water wash, followed by a tap water rinse and a final rinse with distilled water.

Monitoring Well Construction and Development

The wells were constructed in accordance with SAM Program guidelines. Well construction details are summarized in Table 1. Wells were developed by surging to settle and grade the sand pack. A locking cap and a traffic-rated, flush mounted roadbox were placed over each well.

Soil cuttings, purge water and wash water (collectively called investigative derived waste [IDW]) were placed in appropriate drums, labeled, and left on-site pending disposal. The drums were removed by Belshire Environmental Services, Inc. (BESI) and transported, under manifest, to appropriate facilities for recycling. Drum removal manifests are included in Appendix C.

The wells were surveyed by Southern California Surveying, Inc. (SCSI). The base map utilized for this report (Figure 2) is based upon the well-location survey by SCSI. SCSI originally surveyed the onsite wells for EnecoTech on April 26, 2002 (EnecoTech, 2002, pg. 5). The latest updated survey (SCSI, 2008) was performed on March 28, 2008 and is included in Appendix D.

Groundwater Monitoring and Sampling

All wells recently installed under permit number LMON105428 (MW-9 through MW-17) were sampled at least 72-hours after installation and development, and again during the second and third quarters of 2008. At the time of well installation and the initial sampling, the approved HVDPE pilot test was being conducted. The groundwater elevation data from this site assessment may have been influenced by the ongoing extraction from HVDPE. Therefore, groundwater contours presented in this report are taken from the third quarter monitoring and sampling event. ✓

During monitoring and sampling, an electric interface probe with a manufacturer's reported accuracy of 1/100th of a foot was used to measure the depth to water and to detect the presence of phase-separated hydrocarbons (free product). The wells were purged using single-use disposable bailers, and sampled in general accordance with SAM Program guidelines. Approximately one and a half borehole volumes were purged from each well. Purging parameters (temperature, pH, and conductivity) were stable (within 10% of the previous reading) by the time purging of each well was completed.

FP

For fast recovering wells (wells that recover at least 80 percent within 2 hours), temperature, conductivity, and pH measurements (purging parameters) were taken after removal of the first borehole volume and each ½ borehole volume thereafter. Purging continued until at least one and one-half borehole volumes had been removed and purging parameters had stabilized to within 10 percent of the previous reading. Slow recovering wells (wells that recover less than 80 percent in two hours) were purged of one borehole volume. Purge water was placed in appropriate 55-gallon drums, labeled, and stored on-site pending disposal. All wells but MW-13 were fast recovering wells (as defined by the SAM Program) as they recovered at least 80 percent in less than two hours.

Free product which wells

After purging was completed, the wells were allowed to recover. Fast recovering wells were allowed to recover at least 80 percent prior to sampling. Slow recovering wells were allowed to recover at least two hours prior to sampling. Groundwater samples were collected from each well with a single-use, disposable bailer and then decanted into laboratory-supplied vials. The collected groundwater samples were labeled and placed in an ice-filled cooler pending delivery to the laboratory. Chain-of-custody procedures were implemented for sample tracking. Groundwater sampling data sheets are included in Appendix E.

Sample Analysis

Soil samples collected during the installation of wells MW-9 through MW-17 were submitted to a state-accredited laboratory and analyzed for TPHg and TPHd in general accordance with modified EPA Method 8015, and for benzene, toluene, ethylbenzene, and xylenes (BTEX), and oxygenates including methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), tertiary amyl methyl ether (TAME), ethyl tertiary butyl ether (ETBE), and tertiary butyl alcohol (TBA), collectively referred to as volatile organic compounds (VOCs), in general accordance with EPA Method 8260B.

All groundwater samples were submitted to a state-accredited laboratory and analyzed for TPHg and TPHd in general accordance with modified EPA Method 8015, and VOCs in general accordance with EPA Method 8260B.

FINDINGS

SITE GEOLOGY AND HYDROGEOLOGY

The following sections provide an overview of the regional and local geologic setting and include information pertaining to groundwater conditions in the vicinity of the study area.

Regional Geology

Past reports regarding this site have incorrectly referenced California Division of Mines and Geology (CDMG) Bulletin 200 (Kennedy and Peterson, 1975) in the "Area Geology" sections of their reports (EnecoTech, 2002 & 2003). The site is located in the El Cajon, 7½-minute Quadrangle, which is not a part of CDMG Bulletin 200.

The site is located in the Peninsular Ranges Geomorphic Province of Southern California. This province is typified by northwest to southeast-trending mountain ranges approximately parallel to the San Andreas and related regional fault systems. The plutonic rocks of the Peninsular

Ranges are generally characterized as granitic rocks of the Southern California batholith (Norris & Webb, 1990) in association with lesser amounts of metamorphic rocks. Sedimentary rocks ranging in age from Cretaceous to Pleistocene form the San Diego embayment and coastal terraces west of the batholith.

As interpreted from regional geologic maps (Strand, 1962, Tan, 2002 and Todd, 2004), geologic materials underlying the site may include Quaternary-aged alluvium and colluvium. The more detailed geologic map of Tan (Tan, 2002) identifies Pleistocene alluvial deposits underlying the site and describes these sediments as "moderately consolidated, poorly sorted flood plain deposits consisting of gravelly, sandy silt and clay." These sediments are in unconformable contact with underlying bedrock.

The regional geologic maps have identified bedrock in the near vicinity as being "granitoid" (Todd, 2004). Tan has mapped Cretaceous-aged tonalite immediately south of the site (Tan, 2002). The tonalite was described as including "some granodiorite and quartz diorite, medium-grained, generally dark colored and severely weathered." Based upon the referenced regional mapping, the site is most likely to be underlain by Cretaceous-aged tonalite.

Site-Specific Geology

Based upon the a compilation of materials encountered throughout EnecoTech's site assessment (EnecoTech, 2003), they described the site geology as consisting of "alluvial interbedded with colluvial material transported and deposited via stream flow and slope wash." Classification was based on the United Soil Classification Scheme (USCS). Based on local geomorphology, the majority of sedimentary earth material underlying the site were derived via drainages to the southeast. These drainages are minor tributaries of the San Diego River located to the north. These earth materials are generally comprised of well-sorted sands with occasional clay. These sediments have been deposited unconformably on the underlying weathered granitic bedrock.

The bedrock was encountered in borings at the rear (southeast) portion of the site during the 1988 site assessment (Enecotech, 1988; BH-01@16.5' and BH-02@17.0'). Bedrock was also encountered at 30.0' and 45.0' in wells MW-10 and MW-17 respectively during the drilling for this site assessment (Appendix B). Geologic materials encountered during drilling include: fill, alluvium, residual soil and granitics.

Fill

This unit was encountered in wells MW-13, MW-15 and MW-16 and was derived from the on-site alluvial soils. This unit is generally comprised of loose, brown to olive brown to dark yellow brown, dry to moist, fine to very coarse sands with some small gravels and rare asphaltic chunks.

Alluvium

This is a highly variable unit generally consisting of brown to olive brown, moist to wet, interbedded silty to clayey, fine to very coarse sands, with some gravels. This unit was encountered in all the recent borings from the surface to depths ranging from 10 to 51.5 feet (Appendix B).

Residual Soil

This unit consists of earth material derived from in-situ weathering of granitic bedrock. This unit generally consists of dark brown to dark reddish brown, moist, fine to medium clayey sand, with some coarse sand and gravels. Residual soil varied in thickness from 20 to 25 feet in MW-10 and MW-17, respectively. The top of the residual soil was encountered at depths of approximately 10 and 20 feet below ground surface (bgs) in MW-10 and MW-17, respectively. These two wells are situated closest to the base of the hills located to the southeast of the site.

Granitics

This unit, as described from *in-situ* ring samples, consists of dark yellowish brown to dark olive brown, hard to very hard, variably weathered crystalline granitic rock. It was encountered in MW-10 at a depth of approximately 30 feet bgs, and in MW-17 at approximately 45 feet bgs.

Groundwater Conditions

The site is interpreted to lie within the Regional Water Quality Control Board (RWQCB) designated, San Diego Basin Region 9, Santee Hydrologic Sub Area (7.12) of the Lower San Diego Hydrologic Area (7.10) of the San Diego Hydrologic Unit (7.00) as mapped by the RWQCB (1994). According to the RWQCB, surface water in this area has existing beneficial use for industrial and agricultural supply purposes and exempted potential use for municipal purposes. The groundwater in this sub area has been classified as having existing beneficial uses for municipal, agricultural, industrial service and industrial process supply purposes.

For the purposes of this assessment report, groundwater was assessed by using the third quarter 2008 monitoring event results to determine flow direction and gradient. During the third quarter of 2008, groundwater was encountered at depths between approximately 30.08 to 36.08 feet bgs (Petra, 2008d). The groundwater flow direction is interpreted to generally flow toward the west-southwest. The interpreted groundwater contours and gradient are presented on Figures 12 through 15 as depicted in the third quarter 2008 groundwater monitoring and sampling report (Petra, 2008d,). The interpreted groundwater contours and gradient were not calculated using the sampling data from the site assessment activities due to the concurrent running of the HVDPE pilot test event while the site assessment activities were in progress.

LABORATORY RESULTS

Soil Samples – Wells MW-9 through MW-17

Soil samples collected from MW-9 and MW-17 were reported to have detectable concentrations of TPHg ranging from 14 milligrams per kilogram (mg/kg) (MW-9 at 30 feet) to 378 mg/kg (MW-17 at 35 feet). TPHd concentrations were reported in soil samples collected from MW-14 at 30 feet (37.2 mg/kg) and from MW-17 at 35 feet (1610 mg/kg). Detectable concentrations of VOC's were detected in soil samples collected from MW-9, MW-10, MW-11, MW-12, MW-14, MW-15, MW-16, and MW-17. Soil sample analytical results for this assessment are

summarized on Table 2a and shown on Plate 1. Copies of the laboratory reports for soil samples are included in Appendix F. Highest and lowest detectable concentrations of petroleum hydrocarbon constituents from the soil samples were reported as follows:

- Benzene 31.7 µg/kg (MW-14@30ft.) to 900 µg/kg (MW-9@30ft.)
- Toluene 1,700 µg/kg (MW-9@30ft.)
- Ethylbenzene 2.38 µg/kg (MW-15@30ft.) to 320 µg/kg (MW-9@30ft.)
- Xylenes 5.32 µg/kg (MW-14@35ft.) to 1,720 µg/kg (MW-9@30ft.)
- MTBE 3.02 µg/kg (MW-16@35ft.) to 120 µg/kg (MW-9@30ft.)

Soil sample analytical results from previous site assessments (EnecoTech, 1988, 2002 and 2003b) are summarized in Table 2b.

Groundwater Samples – Wells MW-9 through MW-17

Groundwater samples were collected from wells MW-9 through MW-17 a minimum of 72 hours after the wells were installed between February 8 and 26, 2008. Detectable concentrations of TPHg were reported in all new wells with the exception of MW-13. TPHg concentrations ranged from 53,100 µg/l (MW-14) to 31 µg/l (MW-12). Detectable TPHd concentrations were only reported in MW-17 (8,390 µg/l). Detectable concentrations of BTEX and MTBE were not reported in the sample collected from MW-13. Groundwater samples for wells MW-11 and MW-12 were not analyzed for oxygenates. No detectable concentrations of oxygenates (TBA, DIPE, ETBE, and TAME) were reported in any of the wells. Minimum and maximum detectable concentrations of petroleum hydrocarbon constituents were reported as follows:

- Benzene: 21.2 µg/l (MW-11) to 5,260 µg/l (MW-14)
- Toluene: 1.29 µg/l (MW-11) to 890 µg/l (MW-9)
- Ethylbenzene: 12.8 µg/l (MW-11) to 2,440 µg/l (MW-14)
- Xylenes: 2.17 µg/l (MW-11) to 8,510 µg/l (MW-14)
- MTBE: 7.4 µg/l (MW-10) to 455 µg/l (MW-14)

Groundwater sample analytical results for TPHg, TPHd, BTEX, MTBE and oxygenates are summarized in Table 4a. Groundwater sample analytical results for TPHg, TPHd, benzene, MTBE and TBA are shown on Figure 6.

DISCUSSION

EXTENT OF PETROLEUM HYDROCARBON-BEARING SOIL

The horizontal extent of TPHg-bearing and TPHd-bearing soil has generally been delineated to the north, east, south, southwest, and west in the vicinity of the former USTs (Figures 3 and 4). This delineation is as follows:

- The north extent is delineated by EnecoTech well MW-7, and borings B-2 and B-15;
- The east extent is delineated by Petra wells MW-10 and MW-13;
- The south extent is delineated by Petra wells MW-10, MW-14, and MW-17;
- The southwest extent is delineated by EnecoTech boring B-7, and Petra well MW-16; and,
- The west extent is delineated by EnecoTech boring B-7 and B-11, and Petra wells MW-11, MW-12, MW-14, and MW-15.

Soil samples collected from wells MW-10, MW-11, MW-12, MW-13, MW-15, and MW-16 were reported to have no detectable concentrations of TPHg and TPHd.

Soil samples collected at 30 feet bgs in MW-9 and 35 feet bgs in MW-17 were reported to have detectable TPHg concentrations of 14 mg/kg and 378 mg/kg, respectively. Soil samples at 30 feet bgs in MW-14 and 35 feet bgs in MW-17 were reported to have detectable TPHd concentrations of 37.2 mg/kg and 1,610 mg/kg, respectively. The depths of the above mentioned impacted soil samples correspond to the approximate groundwater depth in each of these three wells. Thus, these analytical results may be reflecting dissolved petroleum hydrocarbons (TPHg, TPHd) in groundwater rather than soil. If this is interpretation is accepted, the extent of TPHg-bearing and TPHd-bearing "soil" has been delineated to the south by MW-9, MW-14, and MW-17.

TPHg and TPHd concentrations from soil samples collected from MW-15 and MW-16 were below detection limits. Therefore, the extent of TPHg-bearing and TPHd-bearing soil has been delineated down gradient to the southwest.

In the previous site assessment preformed by EnecoTech (2003), soil samples from boring B-12 were reported to have TPHg and TPHd concentrations of 3,800 mg/kg and 2,700 mg/kg, respectively. As a result, the horizontal extent of hydrocarbon-bearing soil was interpreted to extend to B-12 to the northwest of the site. However, based on the historical groundwater gradients (EnecoTech, 2003b; and Petra, 2008a, 2008c, and 2008d), which have been consistently directed to the south-southwest, it is possible that contamination in B-12 may be from a source other than the UST release at the site. Due to a lack of soil information in this direction, the extent of TPHg-bearing and TPH-bearing soil to the northwest has not been delineated.

The horizontal extent of Benzene and MTBE impacted soil has generally been delineated to the north, east, south, southwest, and west in the vicinity of the former USTs (Figures 5 and 6). This delineation is as follows:

- The north extent is delineated by EnecoTech borings B-8 and B-13 (Table 2b);
- The east extent is delineated by EnecoTech borings B-5, B-13 and B-18 (Table 2b), and Petra wells MW-10 and MW-17 (Table 2a);
- The south extent is delineated by Petra wells MW-10 and MW-17 (Table 2a);
- The southwest extent is delineated by EnecoTech boring B-7 (Table 2b), and Petra well MW-16 (Table 2a); and,
- The west extent is delineated by EnecoTech boring B-7, B-10 and B-11 (Table 2b), and Petra wells MW-11, MW-12, MW-15 and MW-16 (Table 2a).

The vertical extent of petroleum hydrocarbon-bearing soil has generally been delineated and appears limited to soil in the upper five feet below the water table in the area of the release, and near the water table directly down gradient from the site (Figures 7 through 11.2, cross-sections).

This interpretation is based on the soil samples collected from wells MW-9 through MW-17 where detectable concentrations of petroleum hydrocarbons have been reported in samples near the reported water table at depths of 30 to 40 feet below grade.

EXTENT OF PETROLEUM HYDROCARBONS IN GROUNDWATER

The horizontal extent of dissolved petroleum hydrocarbon impacted groundwater has generally been delineated to the north, east, and south in the vicinity of the former USTs (Figures 12 through 15). This delineation is as follows:

- The north extent is delineated by EnecoTech well MW-7 (Table 4b) and Petra well MW-13 (Tables 4a and 4b);
- The east extent is delineated by Petra Wells MW-10 and MW-13 (Table 4a and 4b); and,
- The south extent (excluding TPHg and TPHd) is delineated by Petra wells MW-10 and MW-17 (Table 4a and 4b).

The horizontal extent of dissolved petroleum hydrocarbon impacted groundwater has not been delineated to the northwest, west and southwest of the vicinity of the former USTs (Figures 12 through 15). This is based upon analytical results from the following:

- The existing northwest limit of monitoring is depicted by Petra well MW-11 which contains TPHg, TPHd and Benzene constituents(Tables 4a and 4b);
- The existing west limit of monitoring is depicted by Petra wells MW-11, MW-12 and MW-16. Of these wells, constituents TPHg, Benzene and MTBE have been detected (Tables 4a and 4b); and,
- The existing southwest limit of monitoring is depicted by Petra wells MW-14 and MW-16. Of these wells, constituents TPHg, TPHd, Benzene and MTBE have been detected (Tables 4a and 4b).

SITE CONCEPTUAL MODEL

The site is located in the City of Santee, California. The site is gently sloping to the west toward Woodside Avenue with local hillsides to the southeast (Figure 1). The surrounding areas to the southwest, west and north are relatively flat. The site is approximately 790 feet east of the San Diego River, 3.4 miles west of Lake Jennings, 4.5 miles south of the San Vicente Reservoir, 3 miles east of Santee Lakes, and 6.2 miles northeast of Lake Murray. The Pacific Ocean is approximately 17.5 miles west of the site.

Based on our observations during drilling and our professional experience in the site vicinity, the site is underlain by minor amounts of fill soil overlying alluvium and residual soil, which are in contact with weathered granitic bedrock. Drilling to depths ranging from approximately 38 to 50 feet was accomplished with a hollow-stem auger. Interpreted subsurface geologic conditions are depicted in cross-sections on Figure 6.

Shallow groundwater is interpreted to occur under unconfined conditions. Saturated conditions (groundwater table) were encountered at depths of approximately 29 to 36 feet bgs. It appears that shallow groundwater occurs primarily in porous, permeable alluvial deposits. At the easternmost portions of the site and adjacent property groundwater occurs in the residual soil and weathered granitic rock. Groundwater flow is interpreted to be toward the southwest.

The primary source of petroleum hydrocarbons at the site was the former USTs and associated piping located primarily in the eastern and southern portions of the site, and free product at the water table. Secondary sources of petroleum hydrocarbon impacts to groundwater are residual petroleum hydrocarbons in soil in the vicinity of the former USTs. Free product was detected in wells MW-2, MW-3, and MW-4 (Table 4b) during the monitoring and assessment activities conducted by Petra.

It appears that residual petroleum hydrocarbons present in soil in the vicinity of the former northern UST are limited in both horizontal and vertical extent. Petroleum hydrocarbons have migrated vertically downward in the vicinity of both USTs, and along the water table to the northwest, west and southwest.

Pathways of migration would include:

- Migration through soil from primary source;
- Migration through soil along groundwater table;
- Migration of free-phase or dissolved petroleum hydrocarbons on and in groundwater; and,
- Migration of petroleum hydrocarbon vapors through the vadose zone.

The original USTs are no longer present at the site. They have been upgraded with a system that complies with current standards. Free product was detected in wells MW-2, MW-3, and MW-4 as recently as the first quarter, 2008 (Table 4b). Therefore, migration through soil from primary sources is still likely occurring. Migration of petroleum hydrocarbons through soil at the water table and as free product and dissolved phase hydrocarbons in groundwater appears to be occurring at the site.

Migration of petroleum hydrocarbons in soil vapor is possible. The potential health risk is not known. The nearest structures to the site include the site structure consisting of an office, a coffee/pastry shop, and warehouse centrally positioned within the triangular-shaped property. Located approximately 70 to 80 feet south of well MW-1 and 125 feet east of well MW-2 are adjacent, off-site commercial structures. Woodside Avenue South flanks the northwest boundary as a 50-foot wide paved road and easement. Immediately adjacent to Woodside Avenue South is State Route 67 occupying an approximate 200-foot width. Beyond Highway 67 lies Woodside Avenue North followed by various industrial buildings. All structures, both on-site and offsite, appear to be slab-on-grade structures. The former USTs were located in an area with an asphalt parking lot. It is unknown whether petroleum hydrocarbon vapors from the release from the USTs would migrate to enclosed structures near the site.

CONCLUSIONS AND RECOMMENDATIONS

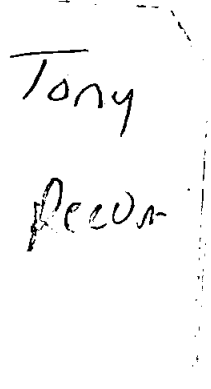
Based on the results of assessment activities conducted to date, it appears the extent of petroleum hydrocarbon-impacted soil has been delineated; however, the extent of petroleum hydrocarbon-impacted groundwater has not been fully delineated. Additional delineation is required to the northwest, west and southwest of the former UST system. Based on our observations at the site and the results of sampling and analysis conducted during this assessment, Petra has made the following conclusions:

- The site is underlain by fill soil, alluvial and residual soil overlying granitic bedrock.
- Groundwater was encountered at a depth of approximately 35 feet below grade, and was interpreted to flow generally toward the southwest.
- The horizontal and vertical extent of petroleum hydrocarbon-bearing soil has been generally delineated, with the exception of possible migration along the water table northwest, west and southwest of the site.
- The extent of dissolved petroleum hydrocarbons in groundwater at the site has not yet been delineated offsite to northwest, west and southwest, but appears delineated to the north, east, and south.
- Based on our experience with similar sites and our understanding of regulations pertaining to petroleum hydrocarbon releases from UST systems, our recommendation is to:

1) Install and sample four relatively close-spaced monitoring wells onsite (in the vicinity of MW-1, MW-6 and MW-9). This recommendation was first made in the recently issued HVDPE report (Petra, 2008e); and,

2) Perform additional site assessment consisting of three lines of direct push borings to delineate dissolved petroleum hydrocarbons in groundwater to the northwest, west and southwest; and,

3) Subsequent to installing the above mentioned additional monitoring wells, develop a workplan to conduct a limited high-vacuum dual phase extraction (HVDPE) pilot test at the site.


Tony
Reeves

INVESTIGATION LIMITATIONS

This report is based on the project analytical data and findings as presented herein. The materials encountered on the project site, described in other literature, and used in the analytical testing program are believed to be representative of the project area, and the conclusions and recommendations in this report are presented on that basis. However, soil and bedrock materials can vary greatly laterally and vertically within a project site, and those variations, if present, could affect the conclusions and recommendations contained herein. In addition, chemicals could be present at the site that have escaped detection by the project sampling and analytical testing program.

Although this investigation has attempted to delineate petroleum hydrocarbon-bearing soil and groundwater relative to the site, potential sources of chemicals may have escaped detection for reasons that include, but are not limited to, the following:

- Our reliance on inadequate or inaccurate information provided to us by third parties such as public agencies and other outside sources;
- The limited scope of this investigation; and
- The presence of undetected, unknown or unreported environmental releases.

Should additional chemicals or other environmental conditions, beyond those already identified at the site, be detected during further progression of the project, Petra will be prepared to assist the client in evaluating the extent of and appropriate mitigation measures for such chemicals or conditions.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of assessment activities conducted to date, it appears the extent of petroleum hydrocarbon-impacted soil has been delineated; however, the extent of petroleum hydrocarbon-impacted groundwater has not been fully delineated. Additional delineation is required to the northwest, west and southwest of the former UST system. Based on our observations at the site and the results of sampling and analysis conducted during this assessment, Petra has made the following conclusions:

- The site is underlain by fill soil, alluvial and residual soil overlying granitic bedrock.
- Groundwater was encountered at a depth of approximately 35 feet below grade, and was interpreted to flow generally toward the southwest.
- The horizontal and vertical extent of petroleum hydrocarbon-bearing soil has been generally delineated, with the exception of possible migration along the water table northwest, west and southwest of the site.
- The extent of dissolved petroleum hydrocarbons in groundwater at the site has not yet been delineated offsite to northwest, west and southwest, but appears delineated to the north, east, and south.
- Based on our experience with similar sites and our understanding of regulations pertaining to petroleum hydrocarbon releases from UST systems, our recommendation is to:

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This report is based on the project analytical data and findings as presented herein. The materials encountered on the project site, described in other literature, and used in the analytical testing program are believed to be representative of the project area, and the conclusions and recommendations in this report are presented on that basis. However, soil and bedrock materials can vary greatly laterally and vertically within a project site, and those variations, if present, could affect the conclusions and recommendations contained herein. In addition, chemicals could be present at the site that have escaped detection by the project sampling and analytical testing program.

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- The presence of undetected, unknown or unreported environmental releases.

Should additional chemicals or other environmental conditions, beyond those already identified at the site, be detected during further progression of the project, Petra will be prepared to assist the client in evaluating the extent of and appropriate mitigation measures for such chemicals or conditions.

REPORT USAGE AND FUTURE SITE CONDITIONS

This report is intended for the sole usage of Ms. Linda Wigington or her agents, and the SAM Program. The conclusions of this report are judged to be relevant at the time the work described in this report was conducted. Future site conditions may differ and this report should not be relied upon to represent future site conditions unless a qualified consultant familiar with the practice of similar environmental assessments is consulted to assess the necessity of updating this report.

REFERENCES

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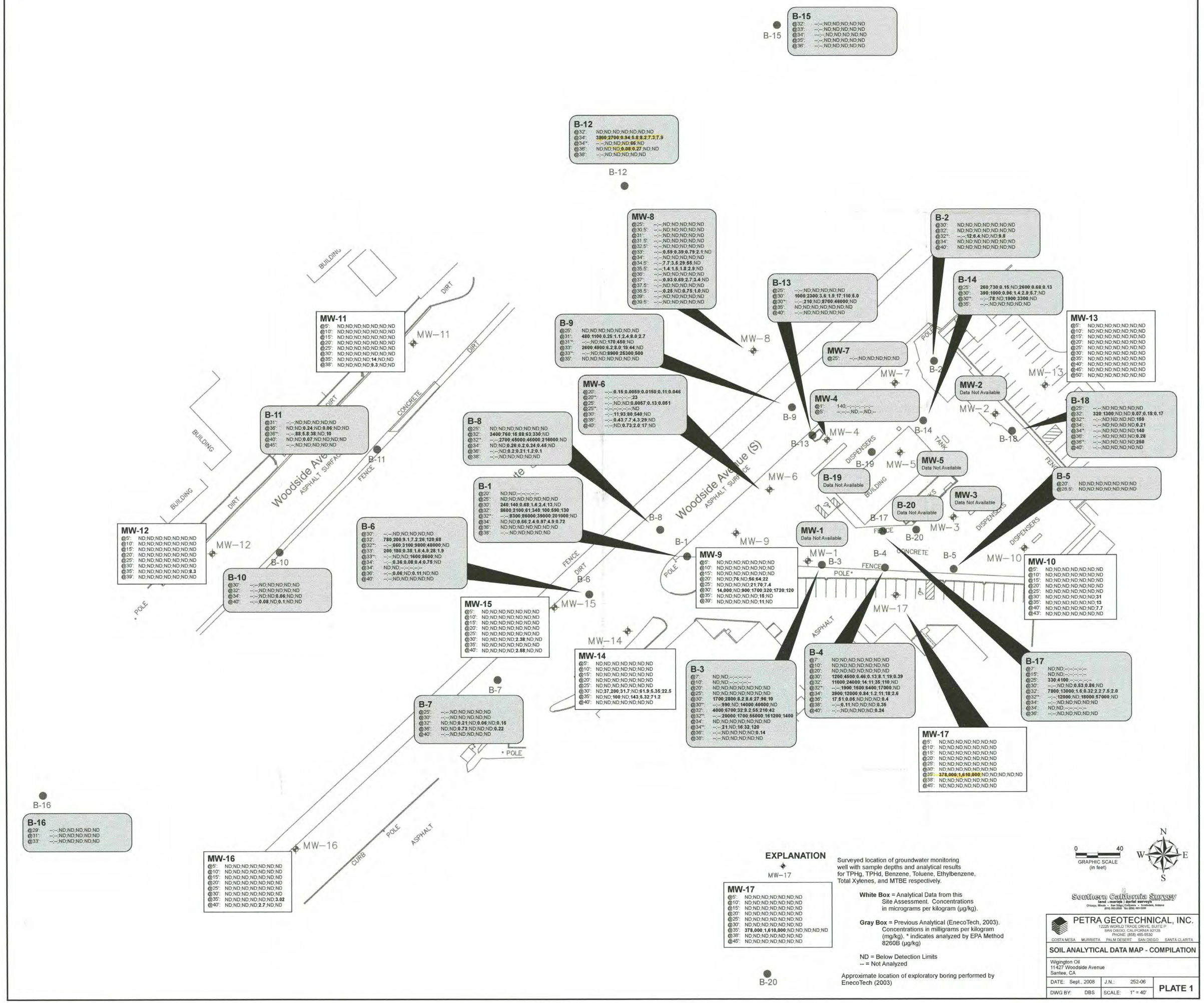
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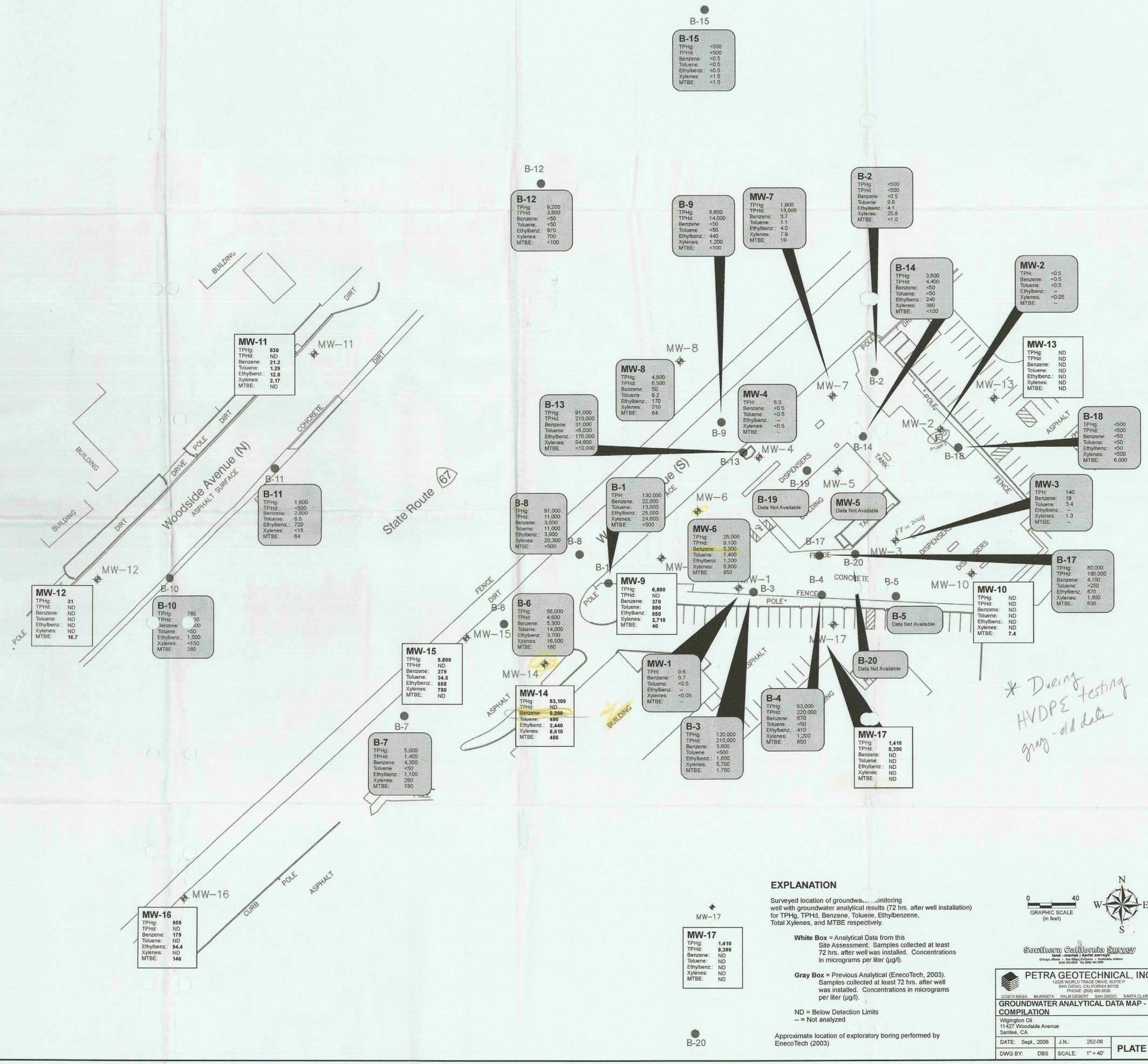
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PLATES

PETRA


B-15
@32': --;--;ND;ND;ND;ND;ND
@33': --;--;ND;ND;ND;ND;ND
@34': --;--;ND;ND;ND;ND;ND
@35': --;--;ND;ND;ND;ND;ND
@36': --;--;ND;ND;ND;ND;ND
B-12
@32': ND;ND;ND;ND;ND;ND;ND
@34': 3800;2700;0.94;5.6;8.2;7.3;7.9
@34**: --;--;ND;ND;ND;66;ND
@36': ND;ND;ND;0.88;0.27;ND;ND
@38': --;--;ND;ND;ND;ND;ND
MW-8
@25': --;--;ND;ND;ND;ND;ND
@30.5': --;--;ND;ND;ND;ND;ND
@31': --;--;ND;ND;ND;ND;ND
@31.5': --;--;ND;ND;ND;ND;ND
@32.5': --;--;ND;ND;ND;ND;ND
@33': --;--;0.59;0.39;0.79;2.1;ND
@34': --;--;ND;ND;ND;ND;ND
@34.5': --;--;7.7;3.5;29;55;ND
@35.5': --;--;1.4;1.5;1.8;2.9;ND
@36': --;--;ND;ND;ND;ND;ND
@37': --;--;0.93;0.69;2.7;3.4;ND
@37.5': --;--;ND;ND;ND;ND;ND
@38.5': --;--;0.25;ND;0.75;1.0;ND
@39': --;--;ND;ND;ND;ND;ND
@39.5': --;--;ND;ND;ND;ND;ND
B-2
@30': ND;ND;ND;ND;ND;ND;ND
@32': ND;ND;ND;ND;ND;ND;ND
@32**: --;--;12;6.4;ND;ND;9.8
@34': ND;ND;ND;ND;ND;ND;ND
@40': ND;ND;ND;ND;ND;ND;ND
B-13
@25': --;--;ND;ND;ND;ND;ND
@30': 1000;2300;3.5;1.9;17;110;5.0
@30**: --;--;210;ND;8700;46000;ND
@35': ND;ND;ND;ND;ND;ND;ND
@40': --;--;ND;ND;ND;ND;ND
B-14
@25': 260;730;0.15;ND;2600;0.68;0.13
@30': 390;1000;0.96;1.4;2.9;5.7;ND
@30**: --;--;78;ND;1900;3300;ND
@35': --;--;ND;ND;ND;ND;ND
MW-13
@5': ND;ND;ND;ND;ND;ND;ND
@10': ND;ND;ND;ND;ND;ND;ND
@15': ND;ND;ND;ND;ND;ND;ND
@20': ND;ND;ND;ND;ND;ND;ND
@25': ND;ND;ND;ND;ND;ND;ND
@30': ND;ND;ND;ND;ND;ND;ND
@35': ND;ND;ND;ND;ND;ND;ND
@40': ND;ND;ND;ND;ND;ND;ND
@45': ND;ND;ND;ND;ND;ND;ND
@50': ND;ND;ND;ND;ND;ND;ND
B-9
@25': ND;ND;ND;ND;ND;ND;ND
@31': 480;1100;0.25;1.1;2.4;8.0;2.7
@31**: --;--;ND;ND;170;450;ND
@33': 2600;4900;6.2;8.0;19;44;ND
@33**: --;--;ND;ND;8900;25300;500
@35': ND;ND;ND;ND;ND;ND;ND
MW-7
@25': --;--;ND;ND;ND;ND;ND
MW-6
@20': --;--;0.15;0.0059;0.0150;0.11;0.046
@20**: --;--;--;--;--;23
@25': --;--;ND;ND;0.0057;0.13;0.051
@25**: --;--;--;--;--;ND
@30': --;--;11;93;80;540;ND
@35': --;--;0.43;7.7;4.3;29;ND
@40': --;--;ND;0.73;2.0;17;ND
MW-4
@1': 140;--;--;--;--;--
@5': --;--;--;ND;--;ND;--
B-8
@25': ND;ND;ND;ND;ND;ND;ND
@32': 3400;760;16;88;63;330;ND
@32**: --;--;2700;45000;46000;216000;ND
@34': ND;ND;0.26;0.2;0.24;0.45;ND
@36': --;--;ND;0.2;0.21;1.2;0.1
@38': --;--;ND;ND;ND;ND;ND
B-1
@20': ND;ND;--;--;--;--;--
@25': ND;ND;ND;ND;ND;ND;ND
@30': 240;140;0.68;1.6;2.4;13;ND
@32': 8600;2100;61;340;100;590;130
@32**: --;--;8300;86000;39000;201000;ND
@34': ND;ND;0.66;2.4;0.97;4.9;0.72
@36': ND;ND;ND;ND;ND;ND;ND
@38': --;--;ND;ND;ND;ND;ND
B-19
Data Not Available
MW-5
Data Not Available
B-20
Data Not Available
MW-3
Data Not Available
B-5
@20': ND;ND;ND;ND;ND;ND;ND
@28.5': ND;ND;ND;ND;ND;ND;ND
MW-1
Data Not Available
MW-2
Data Not Available
B-18
@25': --;--;ND;ND;ND;ND;ND
@32': 320;1300;ND;ND;0.07;0.18;0.17
@32**: --;--;ND;ND;ND;ND;150
@34': --;--;ND;ND;ND;ND;0.21
@34**: --;--;ND;ND;ND;ND;140
@36': --;--;ND;ND;ND;ND;0.28
@36**: --;--;ND;ND;ND;ND;250
@40': --;--;ND;ND;ND;ND;ND
MW-10
@5': ND;ND;ND;ND;ND;ND;ND
@10': ND;ND;ND;ND;ND;ND;ND
@15': ND;ND;ND;ND;ND;ND;ND
@20': ND;ND;ND;ND;ND;ND;ND
@25': ND;ND;ND;ND;ND;ND;ND
@30': ND;ND;ND;ND;ND;ND;31
@35': ND;ND;ND;ND;ND;ND;13
@40': ND;ND;ND;ND;ND;ND;7.7
@43': ND;ND;ND;ND;ND;ND;ND
MW-11
@5': ND;ND;ND;ND;ND;ND;ND
@10': ND;ND;ND;ND;ND;ND;ND
@15': ND;ND;ND;ND;ND;ND;ND
@20': ND;ND;ND;ND;ND;ND;ND
@25': ND;ND;ND;ND;ND;ND;ND
@30': ND;ND;ND;ND;ND;ND;ND
@35': ND;ND;ND;ND;14;ND;ND
@38': ND;ND;ND;ND;9.3;ND;ND
B-11
@31': --;--;ND;ND;ND;ND;ND
@36': ND;ND;0.24;ND;0.06;ND;ND
@36**: --;--;88;5.8;38;ND;10
@40': ND;ND;0.07;ND;ND;ND;ND
@45': --;--;ND;ND;ND;ND;ND
B-10
@30': --;--;ND;ND;ND;ND;ND
@32': --;--;ND;ND;ND;ND;ND
@34': --;--;ND;ND;0.06;ND;ND
@40': --;--;0.08;ND;0.1;ND;ND
MW-12
@5': ND;ND;ND;ND;ND;ND;ND
@10': ND;ND;ND;ND;ND;ND;ND
@15': ND;ND;ND;ND;ND;ND;ND
@20': ND;ND;ND;ND;ND;ND;ND
@25': ND;ND;ND;ND;ND;ND;ND
@30': ND;ND;ND;ND;ND;ND;ND
@35': ND;ND;ND;ND;ND;ND;8.3
@39': ND;ND;ND;ND;ND;ND;ND
B-6
@30': --;--;ND;ND;ND;ND;ND
@32': 780;200;9.1;7.2;26;120;68
@32**: --;--;660;3100;9800;48000;ND
@33': 200;180;0.38;1.6;4.9;28;1.9
@33**: --;--;ND;ND;1600;8600;ND
@34': --;--;0.36;0.08;0.4;0.75;ND
@34': ND;ND;--;--;--;--;--
@36': --;--;0.06;ND;0.11;ND;ND
@40': --;--;ND;ND;ND;ND;ND
MW-15
@5': ND;ND;ND;ND;ND;ND;ND
@10': ND;ND;ND;ND;ND;ND;ND
@15': ND;ND;ND;ND;ND;ND;ND
@20': ND;ND;ND;ND;ND;ND;ND
@25': ND;ND;ND;ND;ND;ND;ND
@30': ND;ND;ND;ND;2.38;ND;ND
@35': ND;ND;ND;ND;ND;ND;ND
@40': ND;ND;ND;ND;2.68;ND;ND
MW-14
@5': ND;ND;ND;ND;ND;ND;ND
@10': ND;ND;ND;ND;ND;ND;ND
@15': ND;ND;ND;ND;ND;ND;ND
@20': ND;ND;ND;ND;ND;ND;ND
@25': ND;ND;ND;ND;ND;ND;ND
@30': ND;37,200;31.7;ND;61.9;5.35;22.5
@35': ND;ND;100;ND;143;5.32;71.2
@40': ND;ND;ND;ND;ND;ND;ND
B-7
@25': --;--;ND;ND;ND;ND;ND
@30': --;--;ND;ND;ND;ND;ND
@32': ND;ND;0.21;ND;0.06;ND;0.15
@36': ND;ND;0.73;ND;ND;ND;0.22
@40': --;--;ND;ND;ND;ND;ND
B-3
@7': ND;ND;--;--;--;--;--
@10': ND;ND;--;--;--;--;--
@20': ND;ND;ND;ND;ND;ND;ND
@25': ND;ND;ND;ND;ND;ND;ND
@30': 1700;2800;8.2;8.6;27;96;10
@30**: --;--;990;ND;14000;40000;ND
@32': 4000;6700;32;8.2;55;210;42
@32**: --;--;20000;1700;55000;161200;1400
@34': ND;ND;ND;ND;ND;ND;ND
@34**: --;--;21;ND;16;32;120
@36': --;--;ND;ND;ND;ND;0.14
@38': --;--;ND;ND;ND;ND;ND
B-4
@7': ND;ND;ND;ND;ND;ND;ND
@10': ND;ND;ND;ND;ND;ND;ND
@20': ND;ND;ND;ND;ND;ND;ND
@30': 1200;4500;0.46;0.13;8.1;19;0.39
@32': 11000;24000;14;11;35;110;ND
@32**: --;--;1900;1600;6400;17000;ND
@34': 3900;12000;0.84;1.2;11;15;2.6
@36': 17;51;0.05;ND;ND;ND;0.4
@38': --;--;0.11;ND;ND;ND;0.35
@40': --;--;ND;ND;ND;ND;0.24
B-17
@7': ND;ND;--;--;--;--;--
@15': ND;ND;--;--;--;--;--
@25': 330;4100;--;--;--;--;--
@30': --;--;ND;ND;0.53;0.86;ND
@32': 7800;13000;1.6;0.32;2.2;7.5;2.0
@32**: --;--;12000;ND;18000;57000;ND
@34': --;--;ND;ND;ND;ND;ND
@34': ND;ND;--;--;--;--;--
@36': --;--;ND;ND;ND;ND;ND
MW-17
@5': ND;ND;ND;ND;ND;ND;ND
@10': ND;ND;ND;ND;ND;ND;ND
@15': ND;ND;ND;ND;ND;ND;ND
@20': ND;ND;ND;ND;ND;ND;ND
@25': ND;ND;ND;ND;ND;ND;ND
@30': ND;ND;ND;ND;ND;ND;ND
@35': 378,000;1,610,000;ND;ND;ND;ND;ND
@38': ND;ND;ND;ND;ND;ND;ND
@45': ND;ND;ND;ND;ND;ND;ND
B-16
@29': --;--;ND;ND;ND;ND;ND
@31': --;--;ND;ND;ND;ND;ND
@33': --;--;ND;ND;ND;ND;ND
MW-16
@5': ND;ND;ND;ND;ND;ND;ND
@10': ND;ND;ND;ND;ND;ND;ND
@15': ND;ND;ND;ND;ND;ND;ND
@20': ND;ND;ND;ND;ND;ND;ND
@25': ND;ND;ND;ND;ND;ND;ND
@30': ND;ND;ND;ND;ND;ND;ND
@35': ND;ND;ND;ND;ND;ND;3.02
@40': ND;ND;ND;ND;2.7;ND;ND
B-15
B-12
MW-8
MW-7
MW-6
MW-4
MW-5
MW-3
MW-1
MW-2
MW-13
B-2
B-9
B-13
B-14
B-18
B-19
B-20
B-5
B-8
B-1
B-6
MW-9
B-3
B-4
B-17
MW-10
MW-11
MW-12
B-11
B-10
MW-15
MW-14
B-7
MW-17
B-16
MW-16
Woodside Avenue (S)
ASPHALT SURFACE
BUILDING
DIRT
CONCRETE
FENCE
POLE
ASPHALT
CURB
DISPENSERS
TANK
EXPLANATION
MW-17
@5': ND;ND;ND;ND;ND;ND;ND
@10': ND;ND;ND;ND;ND;ND;ND
@15': ND;ND;ND;ND;ND;ND;ND
@20': ND;ND;ND;ND;ND;ND;ND
@25': ND;ND;ND;ND;ND;ND;ND
@30': ND;ND;ND;ND;ND;ND;ND
@35': 378,000;1,610,000;ND;ND;ND;ND;ND
@38': ND;ND;ND;ND;ND;ND;ND
@45': ND;ND;ND;ND;ND;ND;ND
B-20
Surveyed location of groundwater monitoring well with sample depths and analytical results for TPHg, TPHd, Benzene, Toluene, Ethylbenzene, Total Xylenes, and MTBE respectively.
White Box = Analytical Data from this Site Assessment. Concentrations in micrograms per kilogram (µg/kg).
Gray Box = Previous Analytical (EnecoTech, 2003). Concentrations in milligrams per kilogram (mg/kg). * indicates analyzed by EPA Method 8260B (µg/kg)
ND = Below Detection Limits
-- = Not Analyzed
Approximate location of exploratory boring performed by EnecoTech (2003)
0
40
GRAPHIC SCALE (in feet)
N
W
E
S
Southern California Survey
land • marine • aerial surveys
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SAN DIEGO, CALIFORNIA 92128
PHONE: (858) 485-5530
COSTA MESA MURRIETA PALM DESERT SAN DIEGO SANTA CLARITA
SOIL ANALYTICAL DATA MAP - COMPILATION
Wigington Oil
11427 Woodside Avenue
Santee, CA
DATE: Sept., 2008
J.N.: 252-06
DWG BY: DBS
SCALE: 1" = 40'
PLATE 1



EXPLANATION

Surveyed location of groundwater monitoring well with groundwater analytical results (72 hrs. after well installation) for TPHg, TPHd, Benzene, Toluene, Ethylbenzene, Total Xylenes, and MTBE respectively.

White Box = Analytical Data from this Site Assessment. Samples collected at least 72 hrs. after well was installed. Concentrations in micrograms per liter (µg/l).

Gray Box = Previous Analytical (EnecoTech, 2003). Samples collected at least 72 hrs. after well was installed. Concentrations in micrograms per liter (µg/l).

ND = Below Detection Limits
-- = Not analyzed

Approximate location of exploratory boring performed by EnecoTech (2003)

0 40
GRAPHIC SCALE (in feet)

N W E S

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land - marine - aerial surveys
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PHONE: (858) 485-5530
COSTA MESA MURRIETA PALM DESERT SAN DIEGO SANTA CLARITA

GROUNDWATER ANALYTICAL DATA MAP - COMPILATION

Wigington Oil
11427 Woodside Avenue
Santee, CA

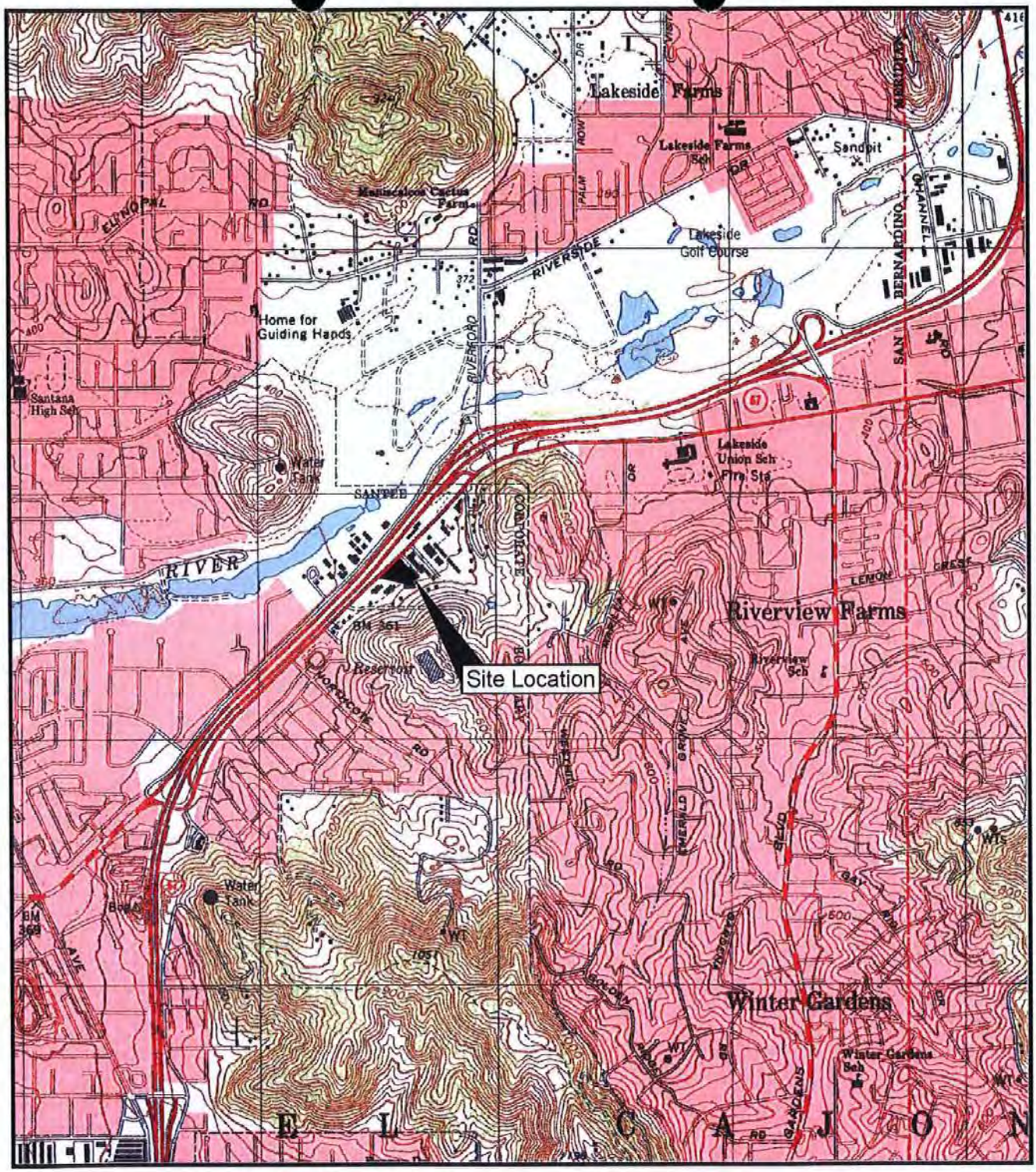
DATE: Sept., 2008	J.N.: 252-06	**PLATE 2**	
DWG BY: DBS	SCALE: 1" = 40'		

PLATES

PETRA

FIGURES

PETRA



Base Map: USGS 7.5-Minute Topographic Map, El Cajon Quadrangle, 1996.

0 0.5
GRAPHIC SCALE (in miles)

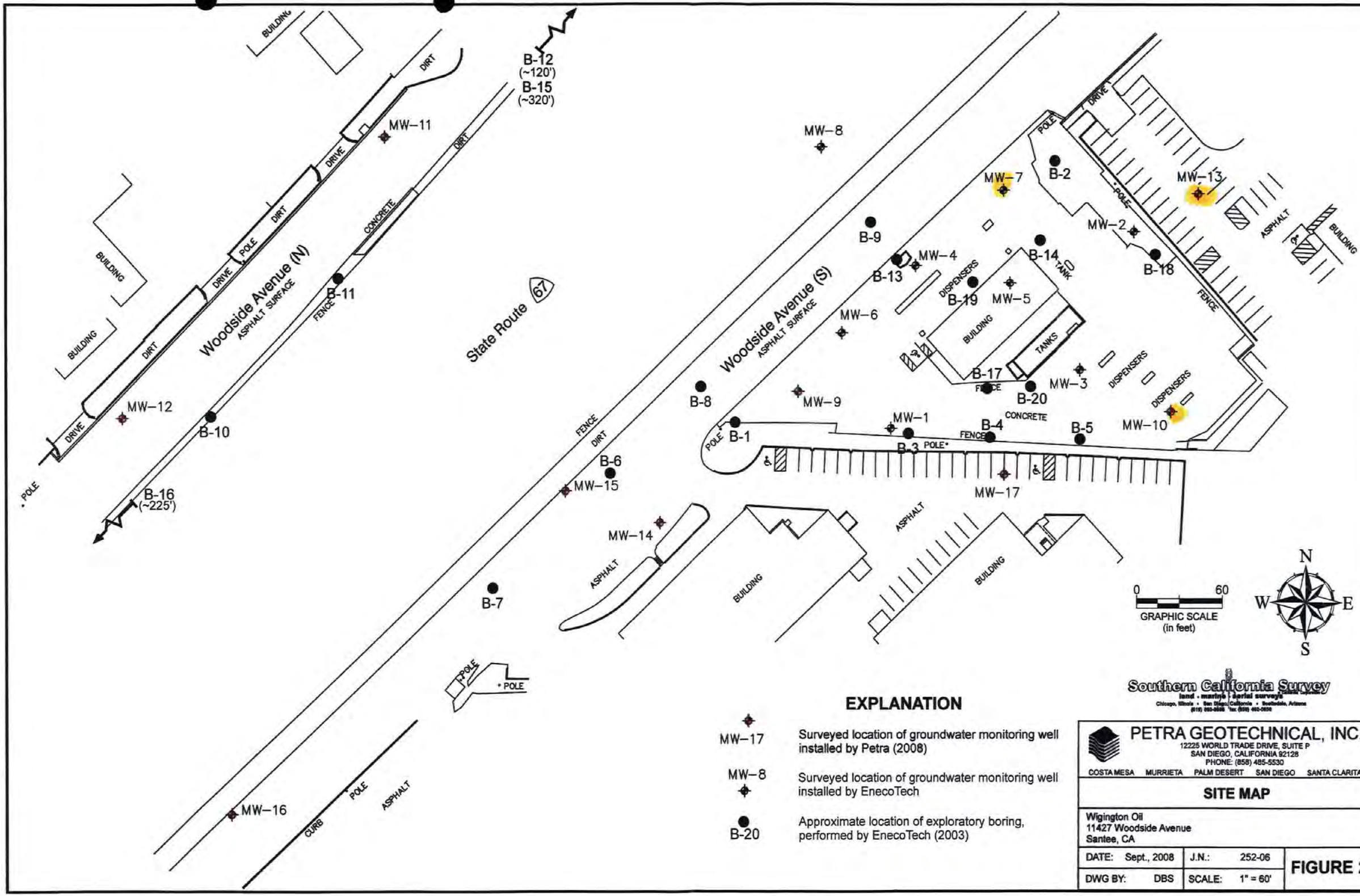
N
W E
S

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COSTA MESA MURRIETA PALM DESERT SAN DIEGO SANTA CLARITA

SITE LOCATION MAP

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE:	Sept., 2008	J.N.:	252-06	FIGURE 1
DWG BY:	DBS	SCALE:	See Left	



EXPLANATION

MW-17	Surveyed location of groundwater monitoring well installed by Petra (2008)
MW-8	Surveyed location of groundwater monitoring well installed by EnecoTech
B-20	Approximate location of exploratory boring, performed by EnecoTech (2003)

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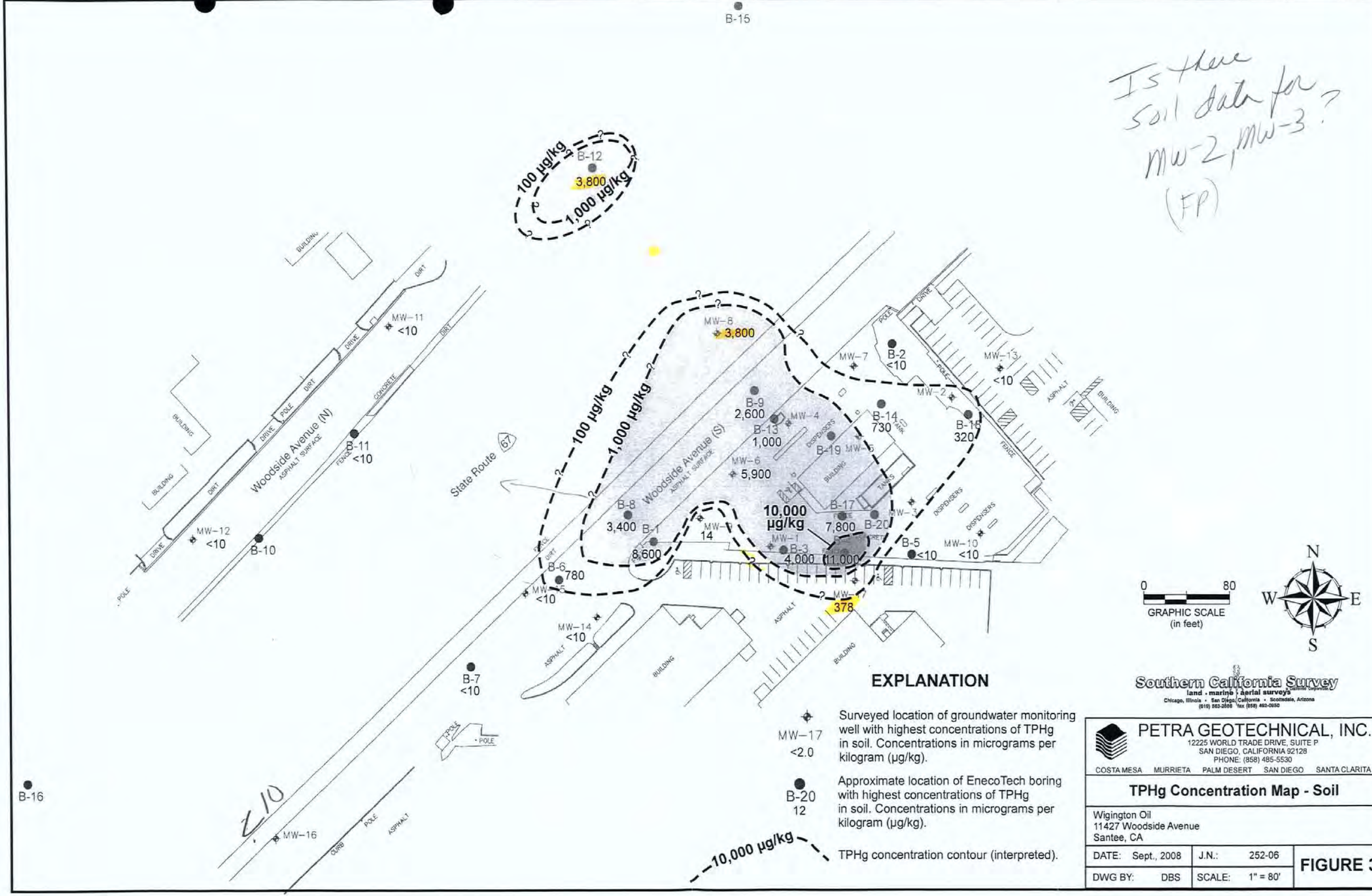
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PHONE: (858) 485-5530
COSTA MESA MURRIETA PALM DESERT SAN DIEGO SANTA CLARITA

SITE MAP

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE: Sept., 2008	J.N.: 252-06	**FIGURE 2**
DWG BY: DBS	SCALE: 1" = 60'	

Is there soil data for MW-2, MW-3? (FP)



0 80
GRAPHIC SCALE
(in feet)

N
W E
S

EXPLANATION

MW-17 <2.0 — Surveyed location of groundwater monitoring well with highest concentrations of TPHg in soil. Concentrations in micrograms per kilogram (µg/kg).

B-20 12 — Approximate location of EnecoTech boring with highest concentrations of TPHg in soil. Concentrations in micrograms per kilogram (µg/kg).

10,000 µg/kg — TPHg concentration contour (interpreted).

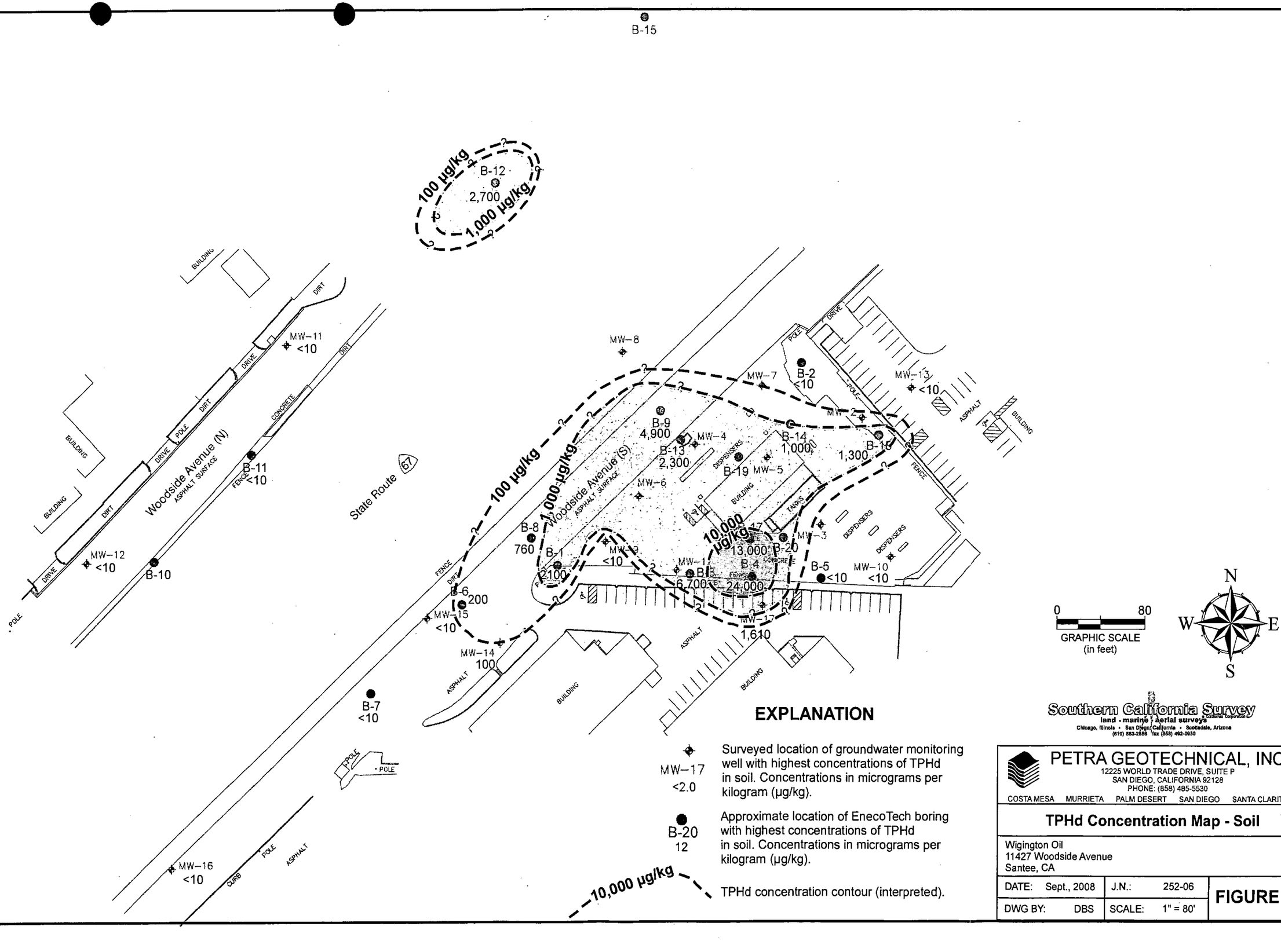
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TPHg Concentration Map - Soil

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE: Sept., 2008	J.N.: 252-06	**FIGURE 3**
DWG BY: DBS	SCALE: 1" = 80'	



EXPLANATION

MW-17 <2.0 — Surveyed location of groundwater monitoring well with highest concentrations of TPHd in soil. Concentrations in micrograms per kilogram (µg/kg).

B-20 12 — Approximate location of EnecoTech boring with highest concentrations of TPHd in soil. Concentrations in micrograms per kilogram (µg/kg).

10,000 µg/kg — TPHd concentration contour (interpreted).

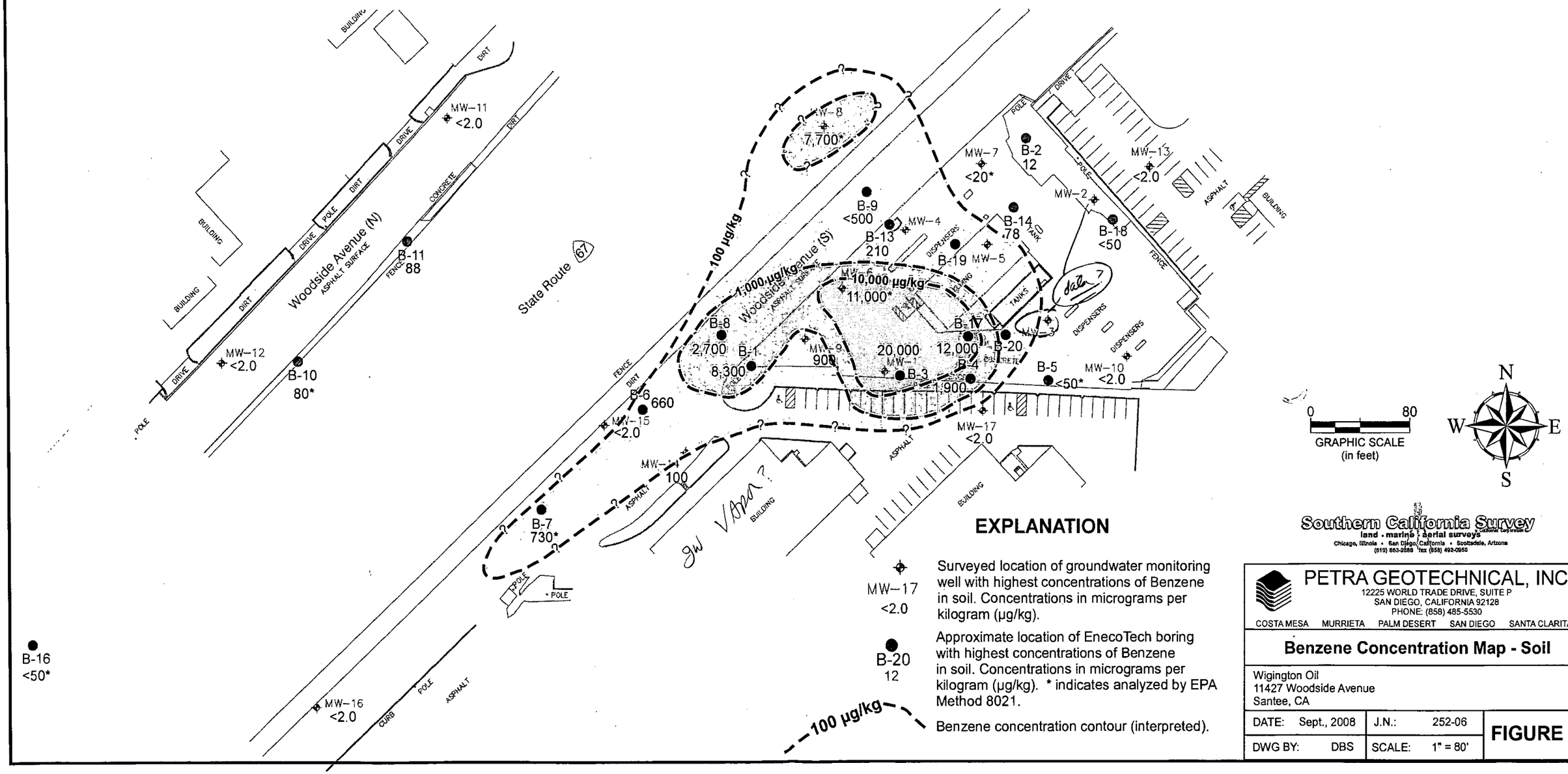
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TPHd Concentration Map - Soil

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE:	Sept., 2008	J.N.:	252-06	FIGURE 4
DWG BY:	DBS	SCALE:	1" = 80'	



EXPLANATION

MW-17 <2.0 — Surveyed location of groundwater monitoring well with highest concentrations of Benzene in soil. Concentrations in micrograms per kilogram (µg/kg).

B-20 12 — Approximate location of EnecoTech boring with highest concentrations of Benzene in soil. Concentrations in micrograms per kilogram (µg/kg). * indicates analyzed by EPA Method 8021.

100 µg/kg — Benzene concentration contour (interpreted).

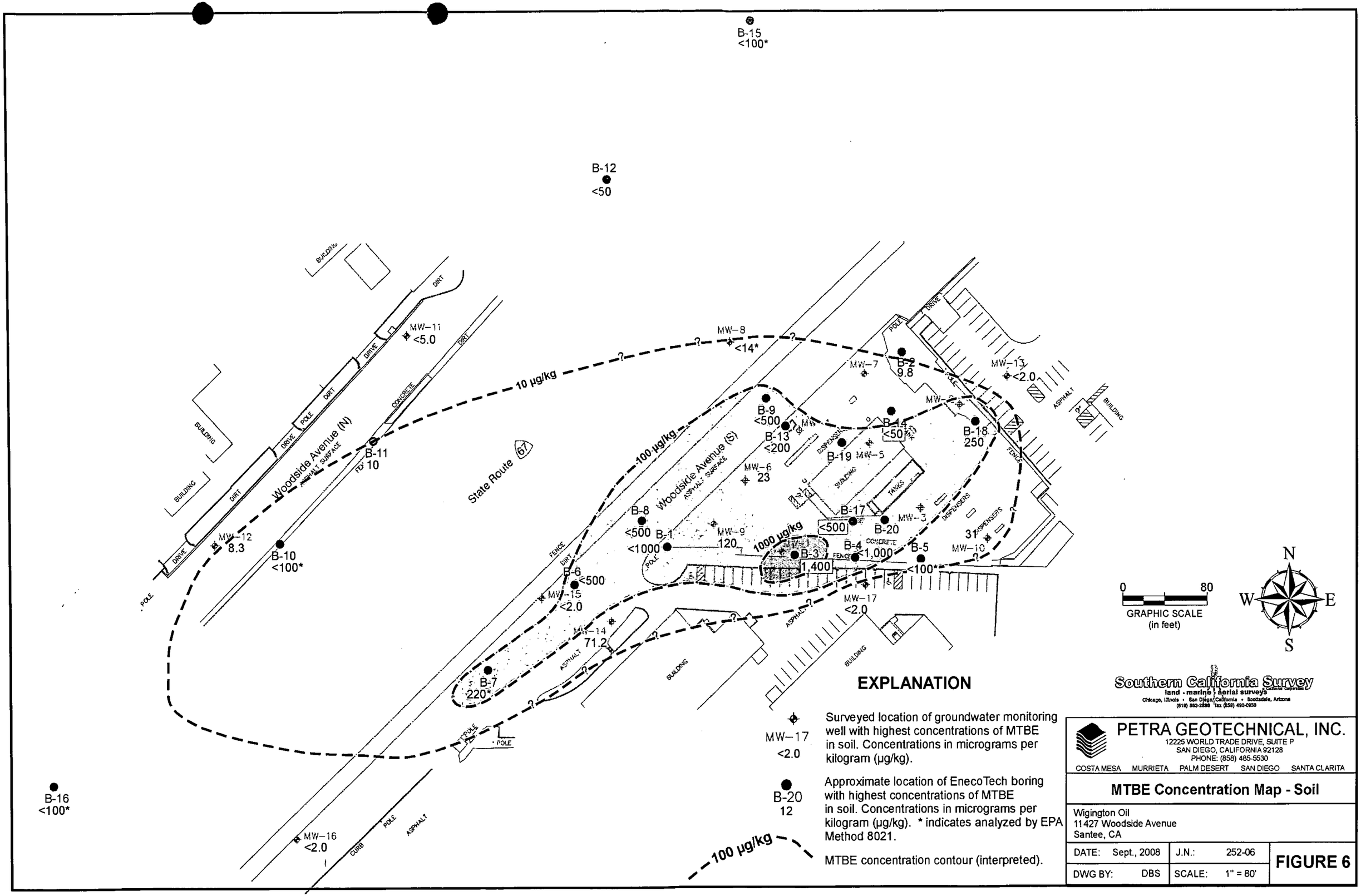
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Benzene Concentration Map - Soil

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE:	Sept., 2008	J.N.:	252-06	FIGURE 5
DWG BY:	DBS	SCALE:	1" = 80'	



EXPLANATION

MW-17 <2.0 — Surveyed location of groundwater monitoring well with highest concentrations of MTBE in soil. Concentrations in micrograms per kilogram (µg/kg).

B-20 12 — Approximate location of EnecoTech boring with highest concentrations of MTBE in soil. Concentrations in micrograms per kilogram (µg/kg). * indicates analyzed by EPA Method 8021.

100 µg/kg — MTBE concentration contour (interpreted).

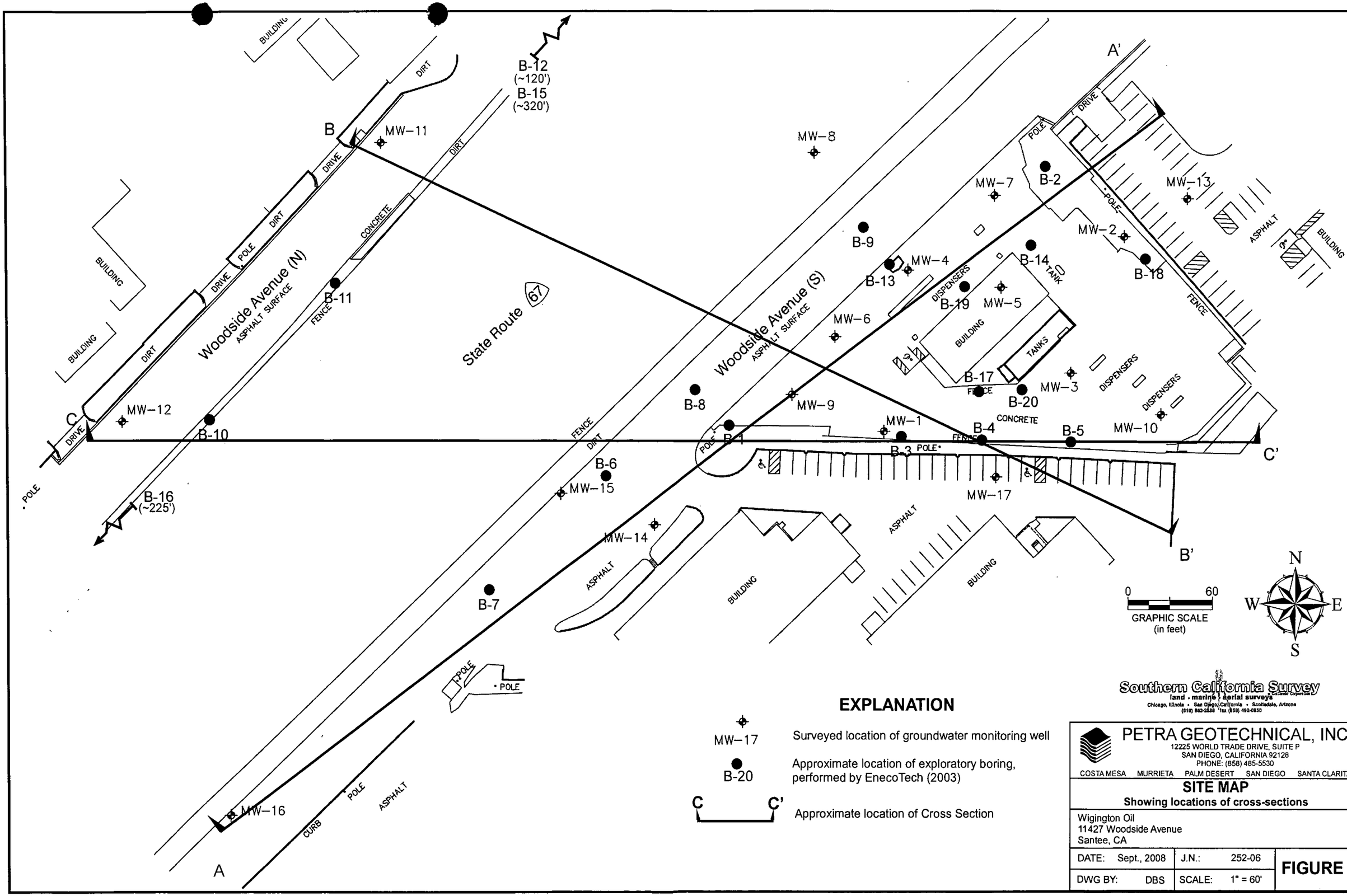
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MTBE Concentration Map - Soil

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE: Sept., 2008	J.N.: 252-06	**FIGURE 6**
DWG BY: DBS	SCALE: 1" = 80'	



EXPLANATION

MW-17 — Surveyed location of groundwater monitoring well

B-20 — Approximate location of exploratory boring, performed by EnecoTech (2003)

C — C' — Approximate location of Cross Section

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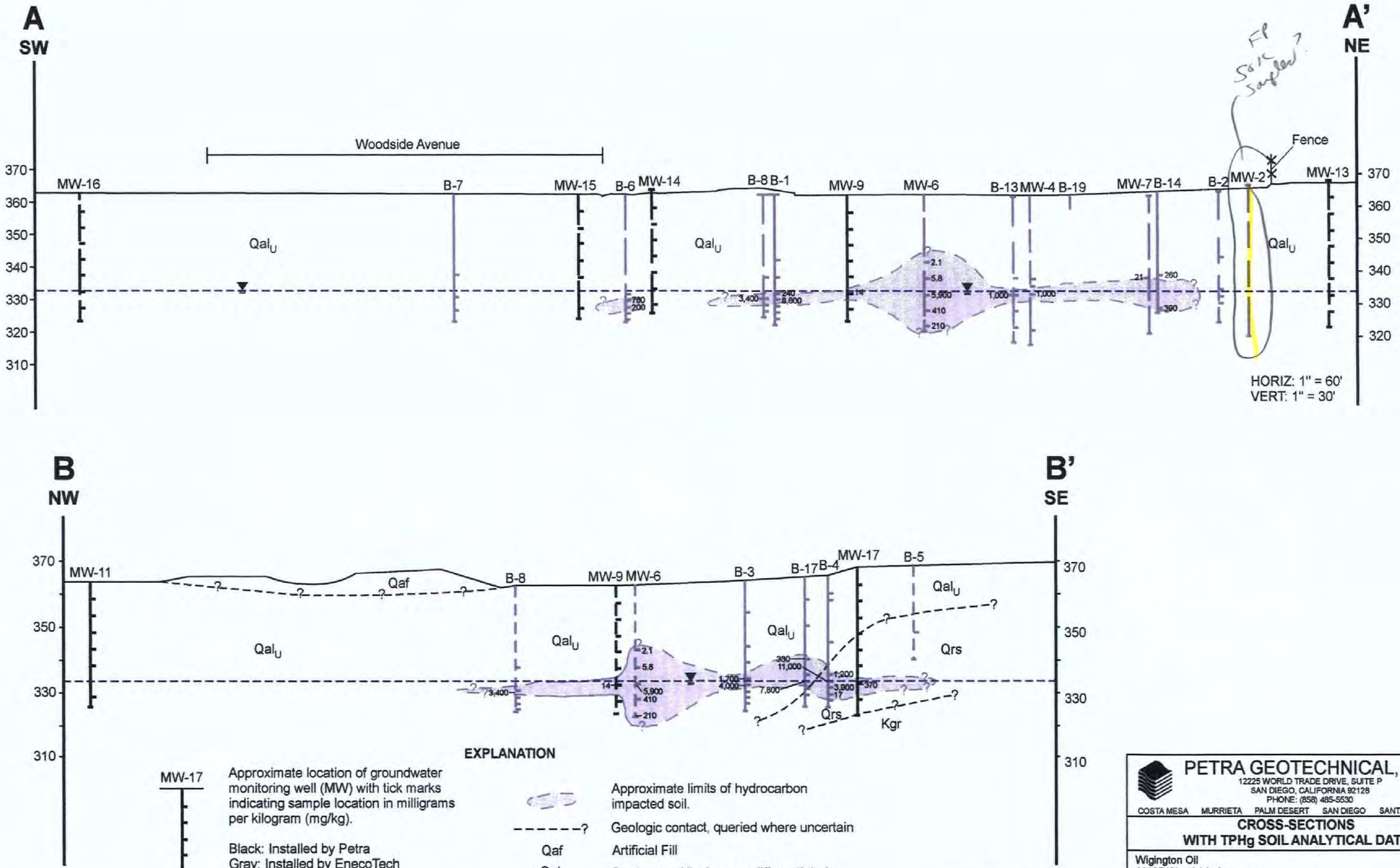
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SITE MAP

Showing locations of cross-sections

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE: Sept., 2008	J.N.: 252-06	**FIGURE 7**
DWG BY: DBS	SCALE: 1" = 60'	

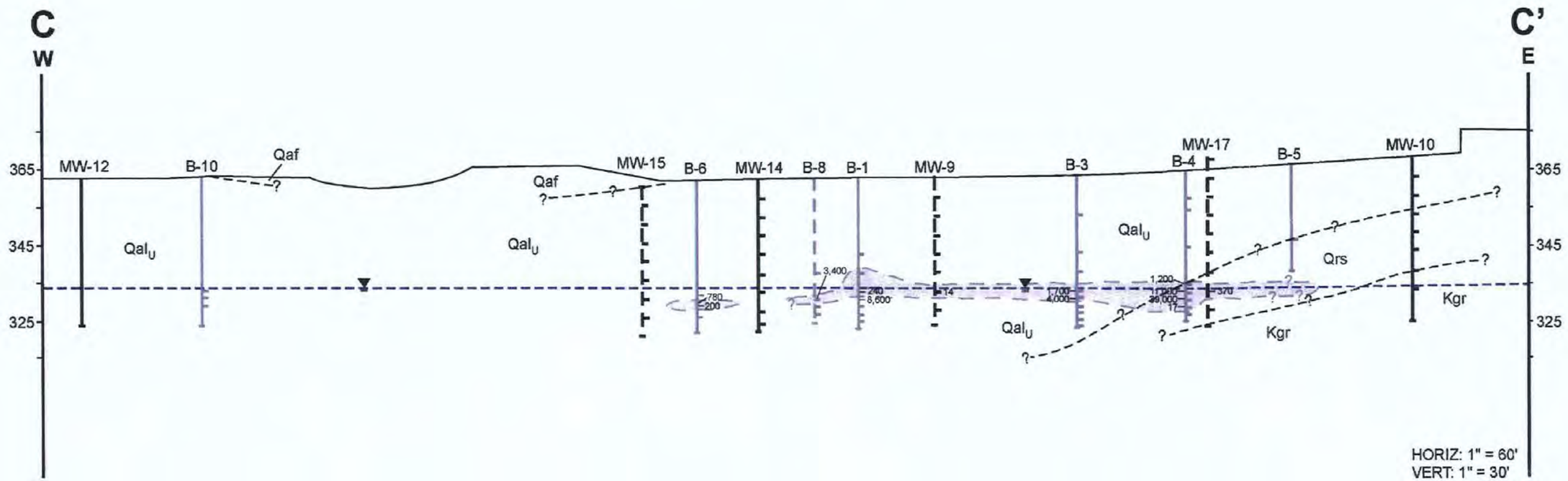


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CROSS-SECTIONS WITH TPHg SOIL ANALYTICAL DATA

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE: Sept. 2008	J.N.: 252-06	**FIGURE 8.1**
DWG BY: DBS	SCALE: See above	



EXPLANATION

MW-17

Approximate location of groundwater monitoring well (MW) with tick marks indicating sample location in milligrams per kilogram (mg/kg).

Black: Installed by Petra
Gray: Installed by EnecoTech
Dashed: Projected

Approximate Potentiometric Surface

Approximate limits of hydrocarbon impacted soil.

------? Geologic contact, queried where uncertain

Qaf Artificial Fill

Qal_U Quaternary Alluvium - undifferentiated

Qrs Quaternary? Residual Soil

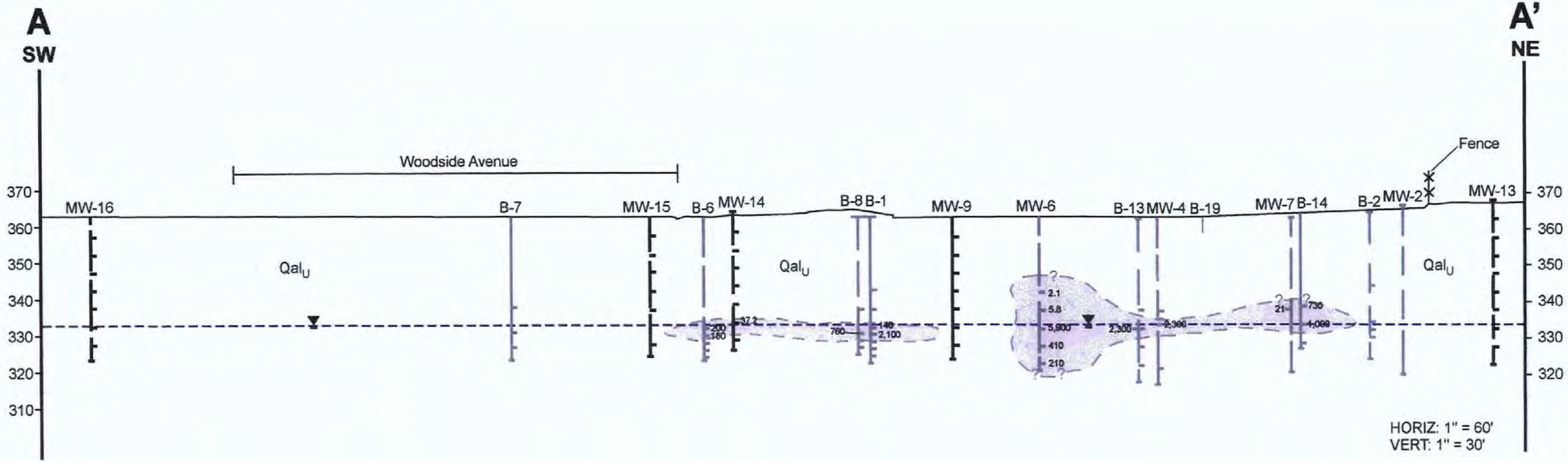
Kgr Cretaceous Granitics - weathered

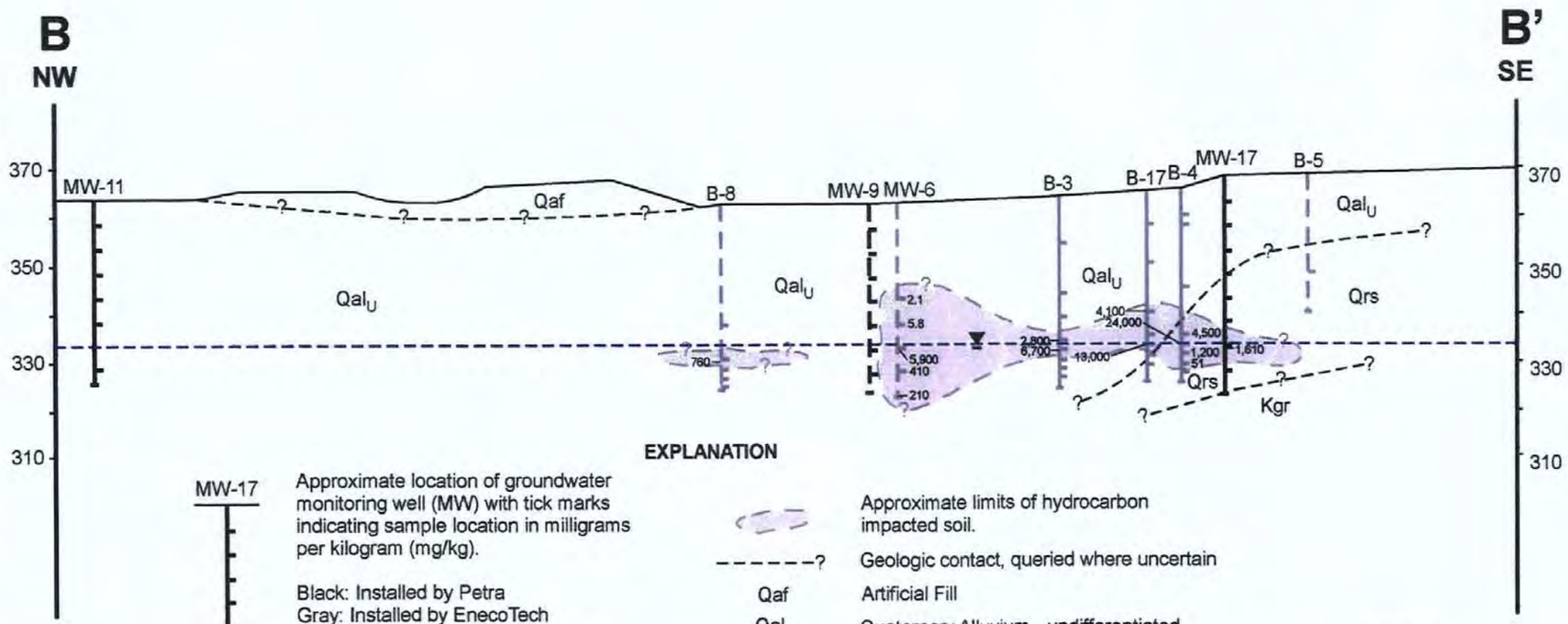
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CROSS SECTIONS WITH TPHg SOIL ANALYTICAL DATA

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE: Sept. 2008	J.N.: 252-06	**FIGURE 8.2**
DWG BY: DBS	SCALE: See Above	





EXPLANATION

MW-17 — Approximate location of groundwater monitoring well (MW) with tick marks indicating sample location in milligrams per kilogram (mg/kg).

Black: Installed by Petra
Gray: Installed by EnecoTech
Dashed: Projected

Approximate Potentiometric Surface

Approximate limits of hydrocarbon impacted soil.

?---?---? Geologic contact, queried where uncertain

Qaf — Artificial Fill

Qal$_U$ — Quaternary Alluvium - undifferentiated

Qrs — Quaternary? Residual Soil

Kgr — Cretaceous Granitics - weathered

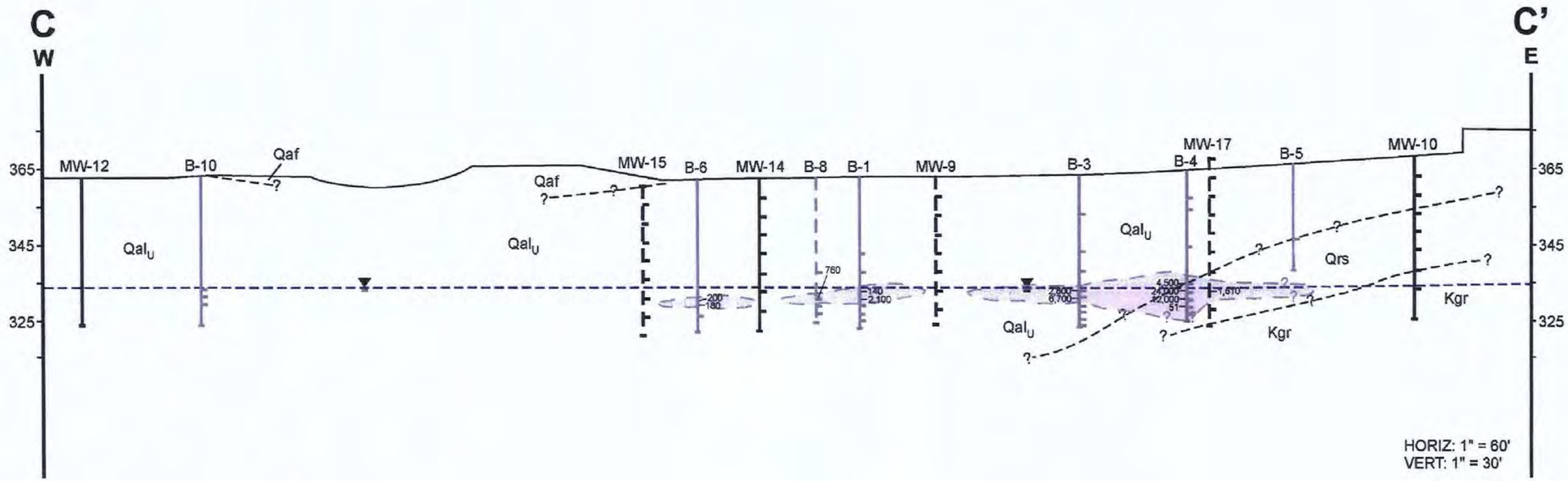
HORIZ: 1" = 60'
VERT: 1" = 30'

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CROSS SECTIONS WITH TPHd SOIL ANALYTICAL DATA

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE: Sept. 2008	J.N.: 252-06	**FIGURE 9.1**
DWG BY: DBS	SCALE: See above	



EXPLANATION

MW-17

Approximate location of groundwater monitoring well (MW) with tick marks indicating sample location in milligrams per kilogram (mg/kg).

Black: Installed by Petra
Gray: Installed by EnecoTech
Dashed: Projected

Approximate Potentiometric Surface

Approximate limits of hydrocarbon impacted soil.

------? Geologic contact, queried where uncertain

Qaf Artificial Fill

Qal_U Quaternary Alluvium - undifferentiated

Qrs Quaternary? Residual Soil

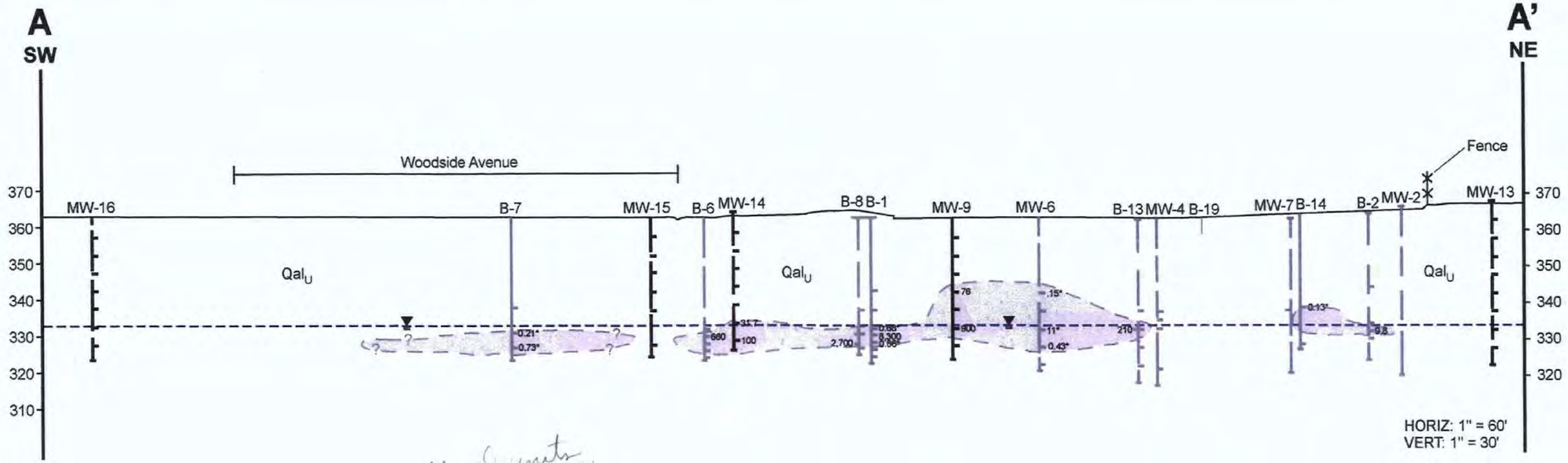
Kgr Cretaceous Granitics - weathered

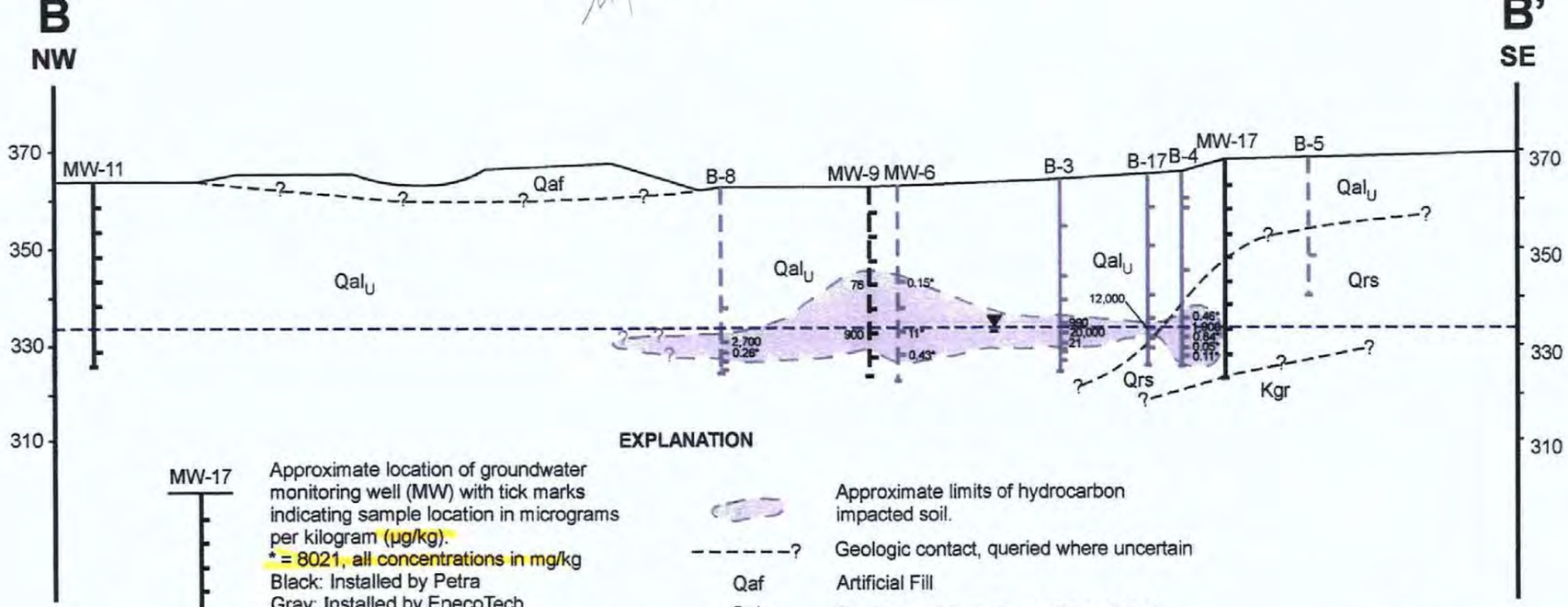
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CROSS SECTION WITH TPHd SOIL ANALYTICAL DATA

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE: Sept. 2008	J.N.: 252-06	**FIGURE 9.2**
DWG BY: DBS	SCALE: See Above	





EXPLANATION

MW-17 — Approximate location of groundwater monitoring well (MW) with tick marks indicating sample location in micrograms per kilogram (µg/kg).
* = 8021, all concentrations in mg/kg
Black: Installed by Petra
Gray: Installed by EnecoTech
Dashed: Projected

Approximate Potentiometric Surface

Approximate limits of hydrocarbon impacted soil.

?------? Geologic contact, queried where uncertain

Qaf — Artificial Fill

Qal$_U$ — Quaternary Alluvium - undifferentiated

Qrs — Quaternary? Residual Soil

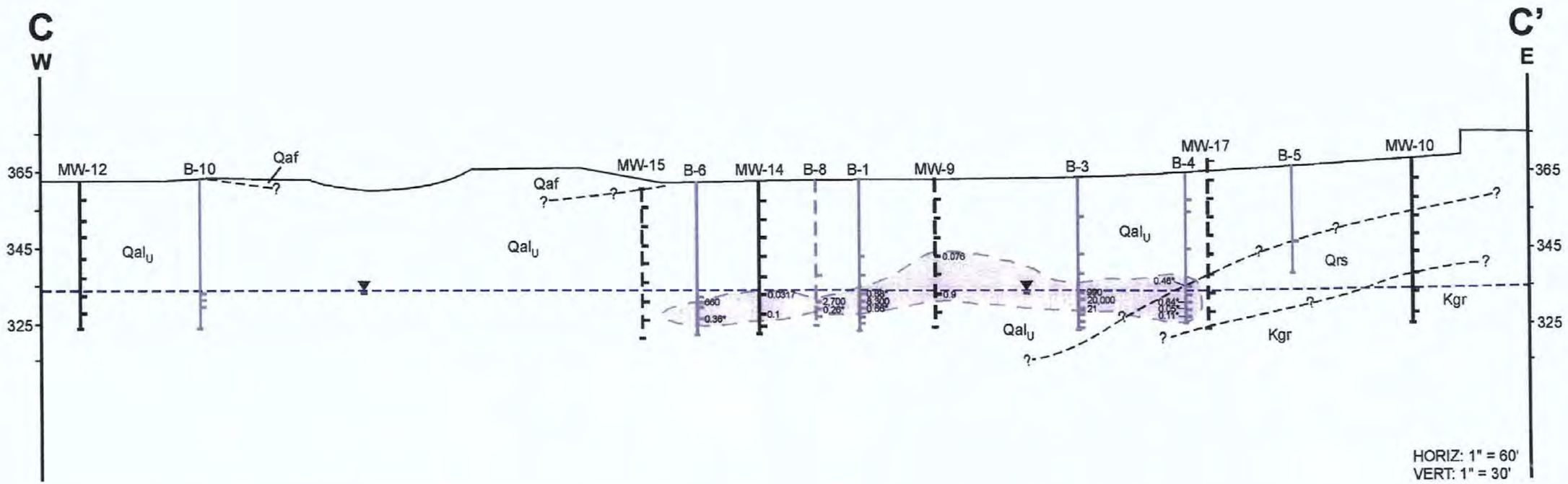
Kgr — Cretaceous Granitics - weathered

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CROSS SECTIONS
WITH BENZENE SOIL ANALYTICAL DATA

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE:	Sept. 2008	J.N.:	252-06	**FIGURE 10.1**
DWG BY:	DBS	SCALE:	See Above	



EXPLANATION

MW-17

Approximate location of groundwater monitoring well (MW) with tick marks indicating sample location in micrograms per kilogram (µg/kg).
* = 8021, all concentrations in mg/kg
Black: Installed by Petra
Gray: Installed by EnecoTech
Dashed: Projected

Approximate Potentiometric Surface

Approximate limits of hydrocarbon impacted soil.

------? Geologic contact, queried where uncertain

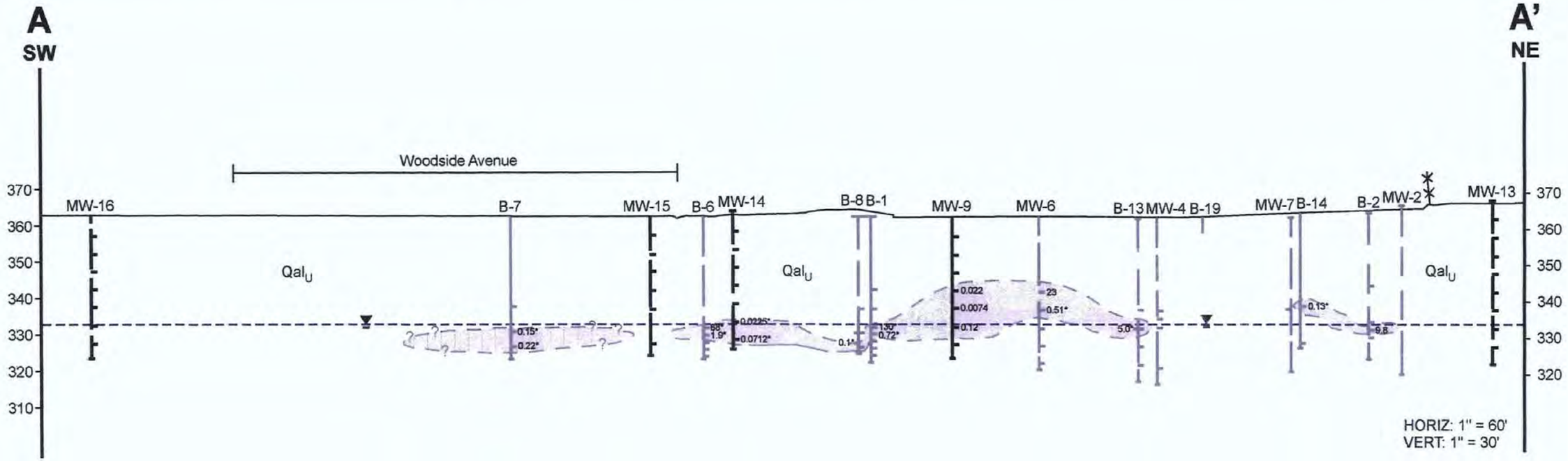
Qaf	Artificial Fill
Qal_U	Quaternary Alluvium - undifferentiated
Qrs	Quaternary? Residual Soil
Kgr	Cretaceous Granitics - weathered

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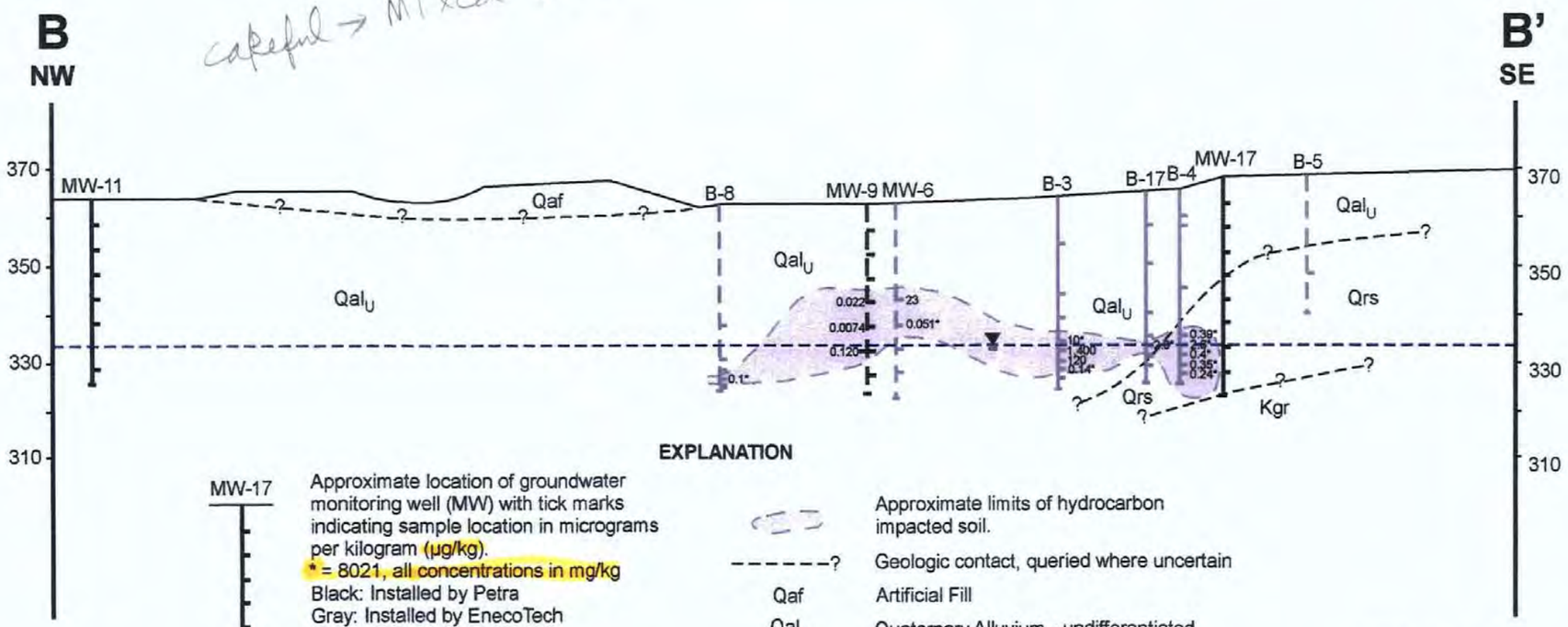
CROSS SECTIONS WITH BENZENE SOIL ANALYTICAL DATA

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE: Sept., 2008	J.N.: 252-06	**FIGURE 10.2**
DWG BY: DBS	SCALE: See Above	



careful → Mixed units



EXPLANATION

MW-17 — Approximate location of groundwater monitoring well (MW) with tick marks indicating sample location in micrograms per kilogram (µg/kg).
* = 8021, all concentrations in mg/kg
Black: Installed by Petra
Gray: Installed by EnecoTech
Dashed: Projected

Approximate Potentiometric Surface

Approximate limits of hydrocarbon impacted soil.

?---?---? Geologic contact, queried where uncertain

Qaf — Artificial Fill

Qal$_U$ — Quaternary Alluvium - undifferentiated

Qrs — Quaternary? Residual Soil

Kgr — Cretaceous Granitics - weathered

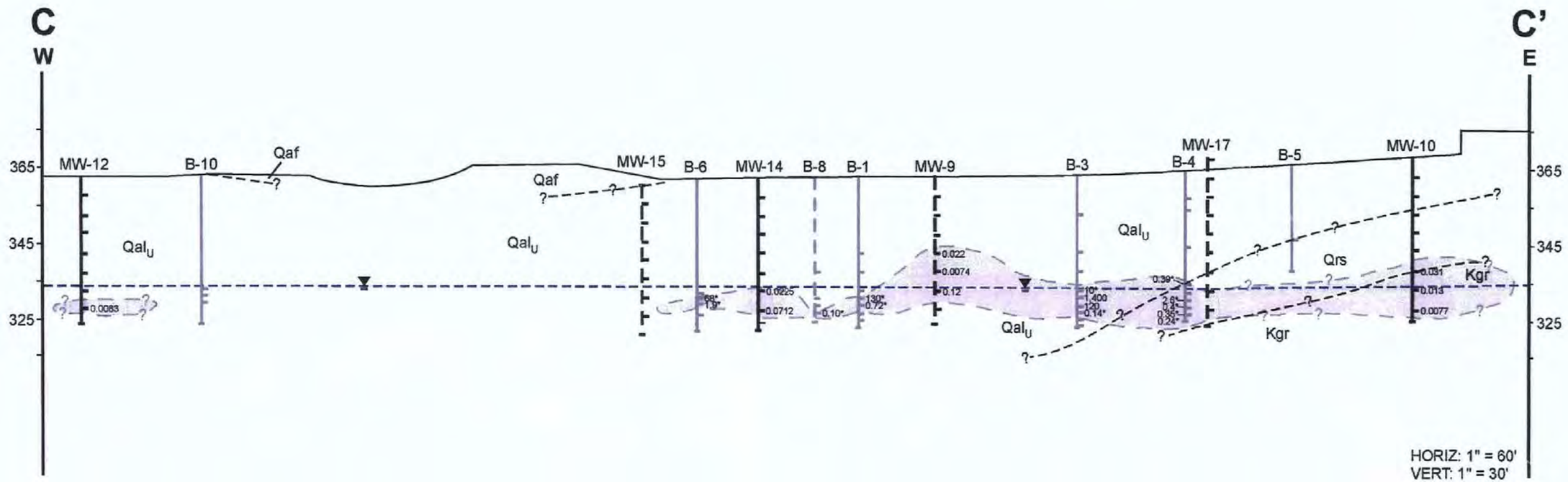
HORIZ: 1" = 60'
VERT: 1" = 30'

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CROSS SECTIONS WITH MTBE SOIL ANALYTICAL DATA

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE: Sept. 2008	J.N.: 252-06	**FIGURE 11.1**
DWG BY: DBS	SCALE: See Above	



EXPLANATION

MW-17

Approximate location of groundwater monitoring well (MW) with tick marks indicating sample location in micrograms per kilogram (µg/kg).
* = 8021, all concentrations in mg/kg
Black: Installed by Petra
Gray: Installed by EnecoTech
Dashed: Projected

Approximate Potentiometric Surface

Approximate limits of hydrocarbon impacted soil.

------? Geologic contact, queried where uncertain

Qaf — Artificial Fill

Qal_U — Quaternary Alluvium - undifferentiated

Qrs — Quaternary? Residual Soil

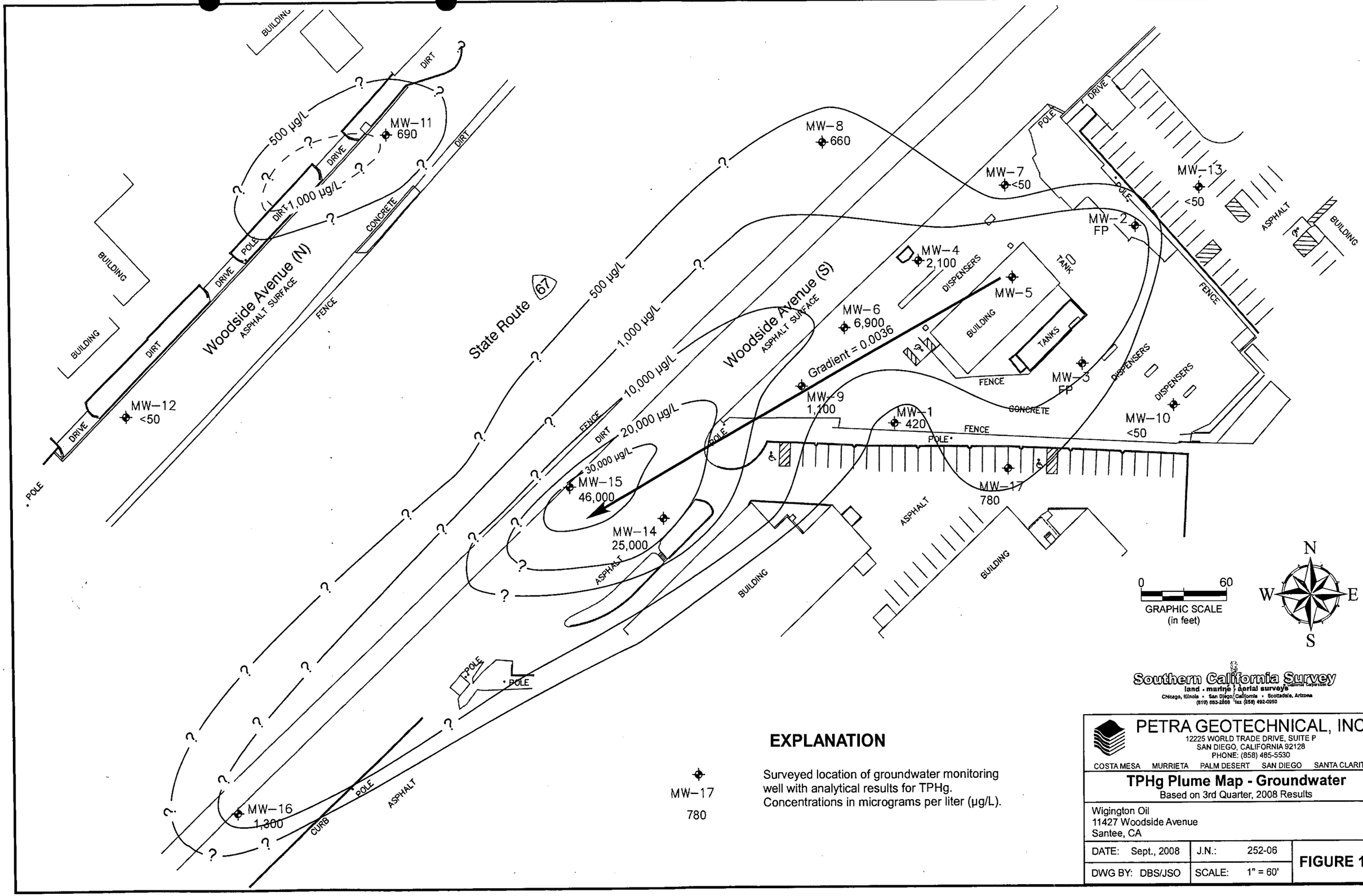
Kgr — Cretaceous Granitics - weathered

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CROSS SECTIONS WITH MTBE SOIL ANALYTICAL DATA

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE:	Sept. 2008	J.N.:	252-06	**FIGURE 11.2**
DWG BY:	DBS	SCALE:	See Above	



EXPLANATION

MW-17
780

Surveyed location of groundwater monitoring well with analytical results for TPHg. Concentrations in micrograms per liter (µg/L).

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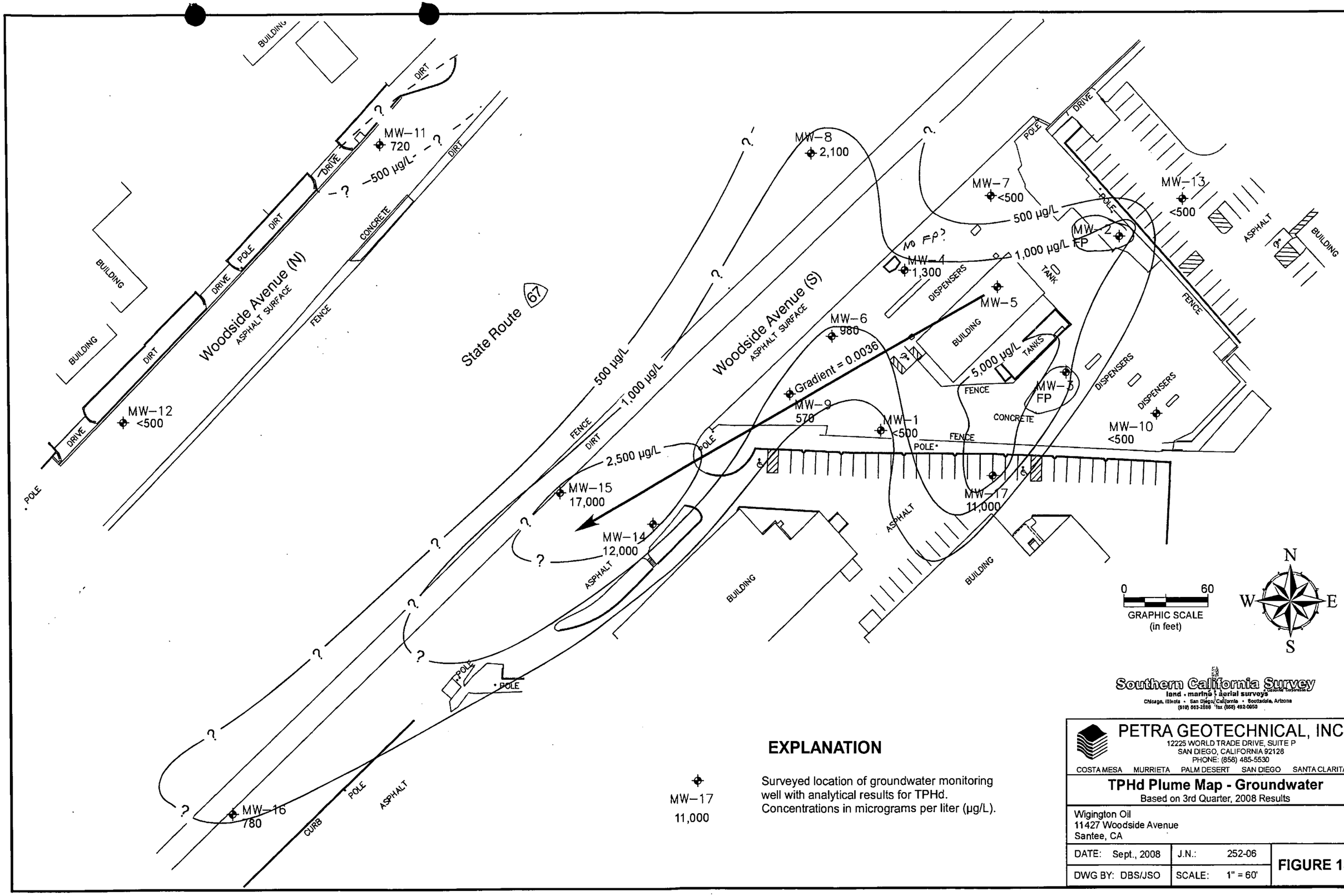
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TPHg Plume Map - Groundwater

Based on 3rd Quarter, 2008 Results

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE: Sept., 2008	J.N.: 252-06	**FIGURE 12**
DWG BY: DBS/JSO	SCALE: 1" = 60'	



EXPLANATION

MW-17
11,000

Surveyed location of groundwater monitoring well with analytical results for TPHd. Concentrations in micrograms per liter (µg/L).

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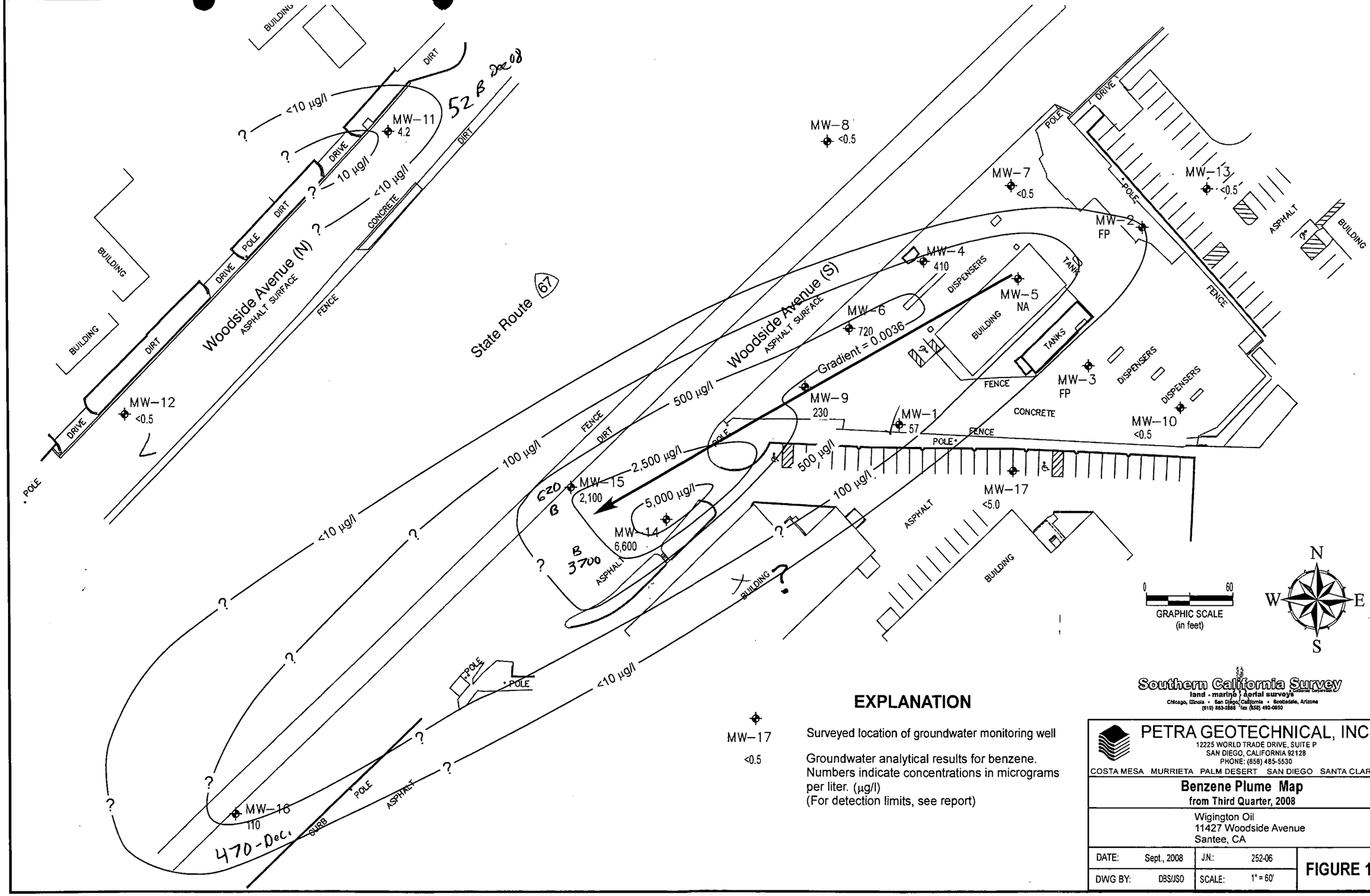
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TPHd Plume Map - Groundwater

Based on 3rd Quarter, 2008 Results

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE: Sept., 2008	J.N.: 252-06	FIGURE 13
DWG BY: DBS/JSO	SCALE: 1" = 60'	



EXPLANATION

MW-17
<0.5

Surveyed location of groundwater monitoring well

Groundwater analytical results for benzene. Numbers indicate concentrations in micrograms per liter. (µg/l)
(For detection limits, see report)

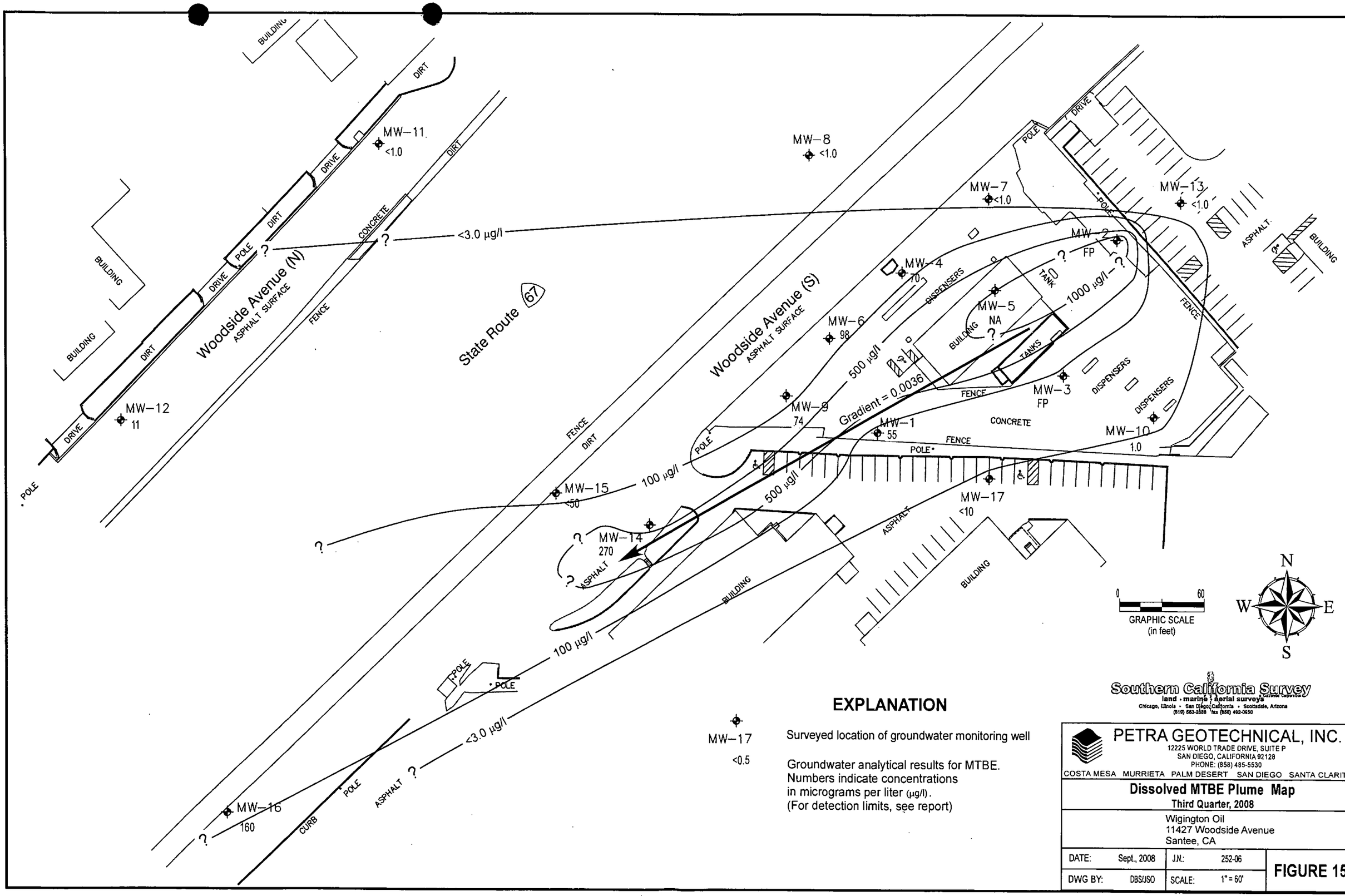
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Benzene Plume Map
from Third Quarter, 2008

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE:	Sept., 2008	J.N.:	252-06	**FIGURE 14**
DWG BY:	DBS/JSO	SCALE:	1" = 60'	



EXPLANATION

MW-17
<0.5

Surveyed location of groundwater monitoring well

Groundwater analytical results for MTBE.
Numbers indicate concentrations
in micrograms per liter (µg/l).
(For detection limits, see report)

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Dissolved MTBE Plume Map
Third Quarter, 2008

Wigington Oil
11427 Woodside Avenue
Santee, CA

DATE:	Sept., 2008	J.N.:	252-06	**FIGURE 15**
DWG BY:	DBS/JSO	SCALE:	1" = 60'	

TABLES

PETRA

Wigington Oil

TABLE 1
WELL CONSTRUCTION DETAILS

J.N. 252-06

Well	Boring Diameter	Casing Type	Casing Diameter	Slot Size (in inches)	Slotted Interval (in feet)	Total Depth (in feet)	Sand Filter	Comments
MW-1	12"	PVC	4"	0.02	22-42	46	#3	Put in by EnecoTech, Inc. (Denver) in 1988
MW-2	12"	PVC	4"	0.02	24-44	46	#3	Put in by EnecoTech, Inc. (Denver) in 1988
MW-3	12"	PVC	4"	0.02	24.5-44.5	46	#3	Put in by EnecoTech, Inc. (Denver) in 1988
MW-4	12"	PVC	4"	0.02	22-42	44	#3	Put in by EnecoTech, Inc. (Denver) in 1988
MW-5	?	concrete	approximately 12"	?	?	70+	?	Caved to approximately 36'
MW-6	10"	PVC	4"	0.02	17-41	42	#3	Put in by EnecoTech Southwest, Inc. in 2001
MW-7	10"	PVC	4"	0.02	17-41	42	#3	Put in by EnecoTech Southwest, Inc. in 2001
MW-8	10"	PVC	4"	0.02	20-40	40	#3	Put in by EnecoTech Southwest, Inc. in 2001
MW-9	10"	PVC	4"	0.02	24-39	39	#3	Put in by Petra Geotechnical, Inc. in 2008
MW-10	10"	PVC	4"	0.02	25-40	40	#3	Put in by Petra Geotechnical, Inc. in 2008
MW-11	8"	PVC	2"	0.02	23-38	38	#3	Put in by Petra Geotechnical, Inc. in 2008

TABLE 1
WELL CONSTRUCTION DETAILS

Well	Boring Diameter	Casing Type	Casing Diameter	Slot Size (in inches)	Slotted Interval (in feet)	Total Depth (in feet)	Sand Filter	Comments
MW-12	8"	PVC	2"	0.02	24-39	39	#3	Put in by Petra Geotechnical, Inc. in 2008
MW-13	8"	PVC	2"	0.02	25-45	45	#3	Put in by Petra Geotechnical, Inc. in 2008
MW-14	10"	PVC	4"	0.02	23-38	38	#3	Put in by Petra Geotechnical, Inc. in 2008
MW-15	8"	PVC	2"	0.02	23.5-38.5	38.5	#3	Put in by Petra Geotechnical, Inc. in 2008
MW-16	8"	PVC	2"	0.02	24-39	39	#3	Put in by Petra Geotechnical, Inc. in 2008
MW-17	8"	PVC	2"	0.02	24.5-44.5	44.5	#3	Put in by Petra Geotechnical, Inc. in 2008

TABLE 2a
SOIL ANALYTICAL RESULTS
Site assessment, 2008

Well No.	Sample	Date	Time	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenz (µg/kg)	Xylenes (µg/kg)	MTBE (µg/kg)	DIPE (µg/kg)	ETBE (µg/kg)	TBA (µg/kg)	TAME (µg/kg)
MW-9	MW-9 @ 5	2/4/2008	9:30	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-9 @ 10	2/4/2008	9:38	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-9 @ 15	2/4/2008	9:47	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-9 @ 20	2/4/2008	9:55	<10	<10	**76**	<5.0	**56**	**64**	**22**	<5.0	<5.0	<25	<5.0
	MW-9 @ 25	2/4/2008	10:02	<10	<10	<5.0	<5.0	**21**	**70**	**7.4**	<5.0	<5.0	<25	<5.0
	MW-9 @ 30	2/4/2008	10:08	**14** ?	<10	<900	**1,700**	**320**	**1720**	**120**	<5.0	<5.0	<25	<5.0
	MW-9 @ 35	2/4/2008	10:15	<10	<10	<5.0	<5.0	<5.0	**15**	<5.0	<5.0	<5.0	<25	<5.0
	MW-9 @ 39	2/4/2008	10:21	<10	<10	<5.0	<5.0	<5.0	**11**	<5.0	<5.0	<5.0	<25	<5.0
MW-10	MW-10 @ 5	2/4/2008	13:18	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-10 @ 10	2/4/2008	13:25	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-10 @ 15	2/4/2008	15:15	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-10 @ 20	2/4/2008	15:23	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-10 @ 25	2/4/2008	15:40	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-10 @ 30	2/4/2008	16:03	<10	<10	<5.0	<5.0	<5.0	<15.0	**31**	<5.0	<5.0	<25	<5.0
	MW-10 @ 35	2/5/2008	11:58	<10	<10	<5.0	<5.0	<5.0	<15.0	**13**	<5.0	<5.0	<25	<5.0
	MW-10 @ 40	2/5/2008	12:15	<10	<10	<5.0	<5.0	<5.0	<15.0	**7.7**	<5.0	<5.0	<25	<5.0
	MW-10 @ 43	2/5/2008	12:58	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
MW-11	MW-11 @ 5	2/8/2008	9:50	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-11 @ 10	2/8/2008	9:58	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-11 @ 15	2/8/2008	10:04	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-11 @ 20	2/8/2008	10:10	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-11 @ 25	2/8/2008	10:16	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-11 @ 30	2/8/2008	10:30	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-11 @ 35	2/8/2008	10:36	<10	<10	<5.0	<5.0	**14**	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-11 @ 38	2/8/2008	10:39	<10	<10	<5.0	<5.0	**9.3**	<15.0	<5.0	<5.0	<5.0	<25	<5.0
MW-12	MW-12 @ 5	2/8/2008	14:26	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-12 @ 10	2/8/2008	14:30	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-12 @ 15	2/8/2008	14:35	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-12 @ 20	2/8/2008	14:40	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-12 @ 25	2/8/2008	14:45	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-12 @ 30	2/8/2008	14:54	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
	MW-12 @ 35	2/8/2008	15:12	<10	<10	<5.0	<5.0	<5.0	<15.0	**8.3**	<5.0	<5.0	<25	<5.0
	MW-12 @ 39	2/8/2008	15:17	<10	<10	<5.0	<5.0	<5.0	<15.0	<5.0	<5.0	<5.0	<25	<5.0
MW-13	MW-13 @ 5	2/18/2008	8:17	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-13 @ 10	2/18/2008	8:21	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-13 @ 15	2/18/2008	9:10	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-13 @ 20	2/18/2008	9:16	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-13 @ 25	2/18/2008	10:20	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-13 @ 30	2/18/2008	10:26	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-13 @ 35	2/18/2008	10:35	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-13 @ 40	2/18/2008	10:46	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0

TABLE 2a
SOIL ANALYTICAL RESULTS
Site assessment, 2008

Well No.	Sample	Date	Time	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethylbenz (µg/kg)	Xylenes (µg/kg)	MTBE (µg/kg)	DIPE (µg/kg)	ETBE (µg/kg)	TBA (µg/kg)	TAME (µg/kg)
	MW-13 @ 45	2/18/2008	10:53	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-13 @ 50	2/18/2008	11:00	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
MW-14	MW-14 @ 5	2/18/2008	14:10	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-14 @ 10	2/18/2008	14:16	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-14 @ 15	2/18/2008	14:23	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-14 @ 20	2/18/2008	14:30	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-14 @ 25	2/18/2008	14:38	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-14 @ 30	2/18/2008	14:48	<10	**37.2**	**31.7**	<2.0	**61.9**	**5.35**	**22.5**	<2.0	<2.0	<100	<2.0
	MW-14 @ 35	2/18/2008	15:00	<10	<10	**100**	<2.0	**143**	**5.32**	**71.2**	<2.0	<2.0	<100	<2.0
	MW-14 @ 40	2/18/2008	15:05	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
MW-15	MW-15 @ 5	2/19/2008	8:36	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-15 @ 10	2/19/2008	8:40	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-15 @ 15	2/19/2008	8:44	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-15 @ 20	2/19/2008	8:48	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-15 @ 25	2/19/2008	8:55	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-15 @ 30	2/19/2008	9:01	<10	<10	<2.0	<2.0	**2.38**	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-15 @ 35	2/19/2008	9:10	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-15 @ 40	2/19/2008	9:18	<10	<10	<2.0	<2.0	**2.58**	<7.0	<2.0	<2.0	<2.0	<100	<2.0
MW-16	MW-16 @ 5	2/19/2008	11:13	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-16 @ 10	2/19/2008	11:18	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-16 @ 15	2/19/2008	11:23	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-16 @ 20	2/19/2008	11:26	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-16 @ 25	2/19/2008	11:30	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-16 @ 30	2/19/2008	11:35	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-16 @ 35	2/19/2008	11:40	<10	<10	<2.0	<2.0	<2.0	<7.0	**3.02**	<2.0	<2.0	<100	<2.0
	MW-16 @ 40	2/19/2008	11:43	<10	<10	<2.0	<2.0	**2.70**	<7.0	<2.0	<2.0	<2.0	<100	<2.0
MW17	MW-17 @ 5	2/19/2008	2:05	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-17 @ 10	2/19/2008	2:10	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-17 @ 15	2/19/2008	2:12	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-17 @ 20	2/19/2008	2:16	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-17 @ 25	2/19/2008	2:20	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-17 @ 30	2/19/2008	2:24	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-17 @ 35	2/19/2008	2:30	**378**	**1610**	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-17 @ 38	2/19/2008	2:35	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0
	MW-17 @ 45	2/19/2008	2:38	<10	<10	<2.0	<2.0	<2.0	<7.0	<2.0	<2.0	<2.0	<100	<2.0

Wigington Oil

TABLE 2b
SOIL ANALYTICAL RESULTS
Previous Site Assessments

J.N. 252-06

Date	Sample * = Method 8260B (µg/kg)	TPH (mg/kg)	TRPH (mg/kg)	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	DIPE	ETBA	TBA	TAME
05/13/88	MW4-1'	14.0				--	--		--					
05/13/88	MW4-5'	<0.5				<0.4	0.73	2.0	17	<2.8				
02/26/01	MW6-20'	2.1				0.15	0.0059	0.015	0.11	0.046				
02/26/01	MW6-20'*									23				
02/26/01	MW6-25'	5.8				<0.005	<0.005	0.0057	0.13	0.051				
02/26/01	MW6-25'*									<5.0				
02/26/01	MW6-30'	5900				11	93	80	540	<28				
02/26/01	MW6-35'	410				0.43	7.7	4.3	29	<1.4				
02/26/01	MW6-40'	210				<0.4	0.73	2.0	17	<2.8				
02/26/01	MW7-25'	21	<0.02			<0.02	<0.02	<0.02	<0.06	<0.14				
04/19/02	MW8-25	<1.0				<0.0050	<0.0050	<0.0050	<0.015	<0.035				
04/19/02	MW8-30.5	<1.0				<0.0050	<0.0050	<0.0050	<0.015	<0.035				
04/19/02	MW8-31	<1.0				<0.0050	<0.0050	<0.0050	<0.015	<0.035				
04/19/02	MW8-31.5	<1.0				<0.0050	<0.0050	<0.0050	<0.015	<0.035				
04/19/02	MW8-32.5	<1.0				<0.0050	<0.0050	<0.0050	<0.015	<0.035				
04/19/02	MW8-33	230				0.59	0.39	0.79	2.1	<1.4				
04/19/02	MW8-34	51				<0.20	<0.20	<0.20	<0.60	<1.4				
04/19/02	MW8-34.5	3800				7.7	3.5	29	55	<14				
04/19/02	MW8-35.5	480				1.4	1.5	1.8	2.9	<3.5				
04/19/02	MW8-36	<1.0				<0.0050	<0.0050	<0.0050	<0.015	<0.035				
04/19/02	MW8-37	470				0.93	0.69	2.7	3.4	<3.5				
04/19/02	MW8-37.5	<1.0				<0.0050	<0.0050	<0.0050	<0.015	<0.035				
04/19/02	MW8-38.5	110				0.25	<0.20	0.75	1.0	<1.4				
04/19/02	MW8-39	<1.0				<0.0050	<0.0050	<0.0050	<0.015	<0.035				
04/19/02	MW8-39.5	<2.5				<0.012	<0.012	<0.012	<0.038	<0.088				
12/03/02	B1-20			<10	<10									
12/03/02	B1-25			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/03/02	B1-30			240	140	0.68	1.6	2.4	13	<1.0				

Note: Shaded results are water sample concentrations in µg/L
BTEX MTBE analyzed by Method 8021, unless noted
-- = Not Analyzed

Wigington Oil

TABLE 2b
SOIL ANALYTICAL RESULTS
Previous Site Assessments

J.N. 252-06

Date	Sample * = Method 8260B (µg/kg)	TPH (mg/kg)	TRPH (mg/kg)	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	DIPE	ETBA	TBA	TAME
12/03/02	B1-32			8,600	2,100	61	340	100	590	130				
12/03/02	B1-32*					8,300	86,000	39,000	201,000	<1000				
12/03/02	B1-34			<10	<10	0.66	2.4	0.97	4.9	0.72				
12/03/02	B1-36			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/03/02	B1-38			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/03/02	B2-30			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/03/02	B2-32			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/03/02	B2-32*					12	6.4	<5	<10	9.8				
12/03/02	B2-34			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/03/02	B2-40			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/03/02	B3-10			<10	<10									
12/03/02	B3-20			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/03/02	B3-25			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/03/02	B3-30			1,700	2,800	8.2	8.6	27	96	10				
12/03/02	B3-30*					990	<200	14,000	40,000	<200				
12/03/02	B3-32			4,000	6,700	32	8.2	55	210	42				
12/03/02	B3-32*					20,000	1,700	55,000	161,200	1,400				
12/03/02	B3-34			<10	<10	<0.05	<0.05	<0.05	<0.15	0.21				
12/03/02	B3-34*					21	<5	16	32	120				
12/03/02	B3-36			--	--	<0.05	<0.05	<0.05	<0.15	0.14				
12/03/02	B3-40			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/03/02	B3-7			<10	<10									
12/03/02	B4-10			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/03/02	B4-20			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/03/02	B4-30			1,200	4,500	0.46	0.13	8.1	19	0.39				
12/03/02	B4-32			11,000	24,000	14	11	35	110	<50				
12/03/02	B4-32*					1,900	1,600	6,400	17,000	<1000				
12/03/02	B4-34			3,900	12,000	0.84	1.2	11	18	2.6				
12/03/02	B4-36			17	51	0.05	<0.05	<0.05	<0.15	0.40				
12/03/02	B4-38			--	--	0.11	<0.05	<0.05	<0.15	0.35				
12/03/02	B4-40			--	--	<0.05	<0.05	<0.05	<0.15	0.24				

Note: Shaded results are water sample concentrations in µg/L
BTEX MTBE analyzed by Method 8021, unless noted
-- = Not Analyzed

Wigington Oil

TABLE 2b
SOIL ANALYTICAL RESULTS
Previous Site Assessments

J.N. 252-06

Date	Sample * = Method 8260B (µg/kg)	TPH (mg/kg)	TRPH (mg/kg)	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	DIPE	ETBA	TBA	TAME
12/03/02	B4-7			<500	<500	<0.05	<0.05	<0.05	<0.15	<0.1				
12/04/02	B1			130,000	22,000	17,000	31,000	5,100	29,000	<40000				
12/04/02	B1*					13,000	25,000	4,700	24,600	<500				
12/04/02	B2			<500	<500	<.5	10	4.1	27	<20				
12/04/02	B2*					<0.5	9.8	4.1	25.8	<1				
12/04/02	B3			120,000	210,000	2,800	120	1,500	4,600	<4000				
12/04/02	B3*					3,800	<500	1,800	5,700	1,700				
12/04/02	B4			83,000	220,000	540	82	420	1,400	<2000				
12/04/02	B4*					670	<50	410	1,200	850				
12/04/02	B5-20			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/04/02	B5-28.5			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/04/02	B6			56,000	4,600	610	1,400	450	2,200	<400				
12/04/02	B6*					5,300	14,000	3,700	16,500	180				
12/04/02	B6-30			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/04/02	B6-32			780	200	9.1	7.2	26	120	68				
12/04/02	B6-32*					660	3,100	9,800	48,000	<500				
12/04/02	B6-33			200	180	0.38	1.6	4.9	28	1.9				
12/04/02	B6-33*					<50	<50	1,600	8,600	<50				
12/04/02	B6-34			--	--	0.36	0.08	0.40	0.75	<0.50				
12/04/02	B6-34			<10	<10									
12/04/02	B6-36			--	--	0.06	<.05	0.11	<0.15	<0.1				
12/04/02	B6-40			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/04/02	B7			5,000	1,400	5,300	51	970	230	<2000				
12/04/02	B7*					4,300	<50	1,100	280	780				
12/04/02	B7-25			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/04/02	B7-30			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/04/02	B7-32			<10	<10	0.21	<0.05	0.06	<0.15	0.15				

Note: Shaded results are water sample concentrations in µg/L
BTEX MTBE analyzed by Method 8021, unless noted
-- = Not Analyzed

Wigington Oil

TABLE 2b
SOIL ANALYTICAL RESULTS
Previous Site Assessments

J.N. 252-06

Date	Sample * = Method 8260B (µg/kg)	TPH (mg/kg)	TRPH (mg/kg)	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	DIPE	ETBA	TBA	TAME
12/04/02	B7-36			<10	<10	0.73	<0.05	<0.05	<0.15	0.22				
12/04/02	B7-40			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/04/02	B8			91,000	11,000	1,800	6,700	2,200	12,000	<2000				
12/04/02	B8*					3,000	11,000	3,900	20,300	<500				
12/04/02	B8-25			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/04/02	B8-32			3,400	760	15	88	63	330	<10				
12/04/02	B8-32*					2,700	45,000	46,000	216,000	<500				
12/04/02	B8-34			<10	<10	0.26	0.20	0.24	0.45	<0.50				
12/04/02	B8-36			--	--	<0.05	0.20	0.21	1.2	0.10				
12/04/02	B8-38			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/04/02	B9			8,600	14,000	51	38	510	1,500	<400				
12/04/02	B9*					<50	<50	440	1,200	<100				
12/04/02	B9-25			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/04/02	B9-31			480	1,100	0.25	1.10	2.4	8.0	2.7				
12/04/02	B9-31*					<50	<50	170	450	<50				
12/04/02	B9-33			2,600	4,900	6.2	8.0	19	44	<10				
12/04/02	B9-33*					<500	<500	8,900	25,300	500				
12/04/02	B9-35			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/05/02	B10			760	<500	330	<5.0	250	<15	<200				
12/05/02	B10*					1,000	<50	1,500	<150	280				
12/05/02	B10-30			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/05/02	B10-32			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/05/02	B10-34			--	--	<0.05	<0.05	0.06	<0.15	<0.1				
12/05/02	B10-40			--	--	0.08	<0.05	0.10	<0.15	<0.1				
12/05/02	B11			1,600	<500	610	7.0	220	<15	<200				
12/05/02	B11*					2,800	6.5	720	<15.0	64				
12/05/02	B11-31			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/05/02	B11-36			<10	<10	0.24	<0.05	0.06	<0.15	<0.1				
12/05/02	B11-36*					88	5.8	38	<10	10				
12/05/02	B11-40			<10	<10	0.07	<0.05	<0.05	<0.15	<0.1				

Note: Shaded results are water sample concentrations in µg/L
BTEX MTBE analyzed by Method 8021, unless noted
-- = Not Analyzed

Wigington Oil

TABLE 2b
SOIL ANALYTICAL RESULTS
Previous Site Assessments

J.N. 252-06

Date	Sample * = Method 8260B (µg/kg)	TPH (mg/kg)	TRPH (mg/kg)	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	DIPE	ETBA	TBA	TAME
12/05/02	B11-45			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/05/02	B12-32			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/05/02	B12-34			3,800	2,700	0.94	5.8	8.2	7.3	7.9				
12/05/02	B12-34*					<50	<50	<50	66	<50				
12/05/02	B12-36			<10	<10	<0.05	0.08	0.27	<0.15	<0.50				
12/05/02	B12-38			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/05/02	B13-25			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/05/02	B13-30			1,000	2,300	3.6	1.9	17	110	5.0				
12/05/02	B13-30*					210	<200	8,700	46,000	<200				
12/05/02	B13-35			<10	<10	<0.05	<0.05	<0.05	<0.15	<0.1				
12/05/02	B13-40			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/06/02	B12			9,200	3,800	38	82	900	660	410				
12/06/02	B12*					<50	<50	970	700	<100				
12/06/02	B13			91,000	210,000	2,400	210	1,900	6,900	2,600				
12/06/02	B13*					31,000	<5000	170,000	546,000	<10000				
12/06/02	B14			3,600	4,400	38	<5.0	210	340	<200				
12/06/02	B14*					<50	<50	240	380	<100				
12/06/02	B14-25			730	260	0.15	<0.05	2,600	0.68	0.13				
12/06/02	B14-30			390	1,000	0.96	1.4	2.9	5.7	<1.0				
12/06/02	B14-30*					78	<50	1,900	3,300	<50				
12/06/02	B14-35			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/06/02	B15			<500	<500	<0.5	<0.5	<0.5	<1.5	<20				
12/06/02	B15*					<0.5	<0.5	<0.5	<1.5	<1				
12/06/02	B15-32			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/06/02	B15-33			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/06/02	B15-34			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/06/02	B15-35			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/06/02	B15-36			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				

Note: Shaded results are water sample concentrations in µg/L
BTEX MTBE analyzed by Method 8021, unless noted
-- = Not Analyzed

Wigington Oil

TABLE 2b
SOIL ANALYTICAL RESULTS
Previous Site Assessments

J.N. 252-06

Date	Sample * = Method 8260B (µg/kg)	TPH (mg/kg)	TRPH (mg/kg)	TPHg (mg/kg)	TPHd (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	DIPE	ETBA	TBA	TAME
12/06/02	B16			<500	<500	<0.5	<0.5	<0.5	<1.5	45				
12/06/02	B16*					<0.5	<0.5	<0.5	<1.5	27				
12/06/02	B16-29			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/06/02	B16-31			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/06/02	B16-33			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/06/02	B17			80,000	190,000	4,500	<100	970	2,600	<4000				
12/06/02	B17*					4,100	<250	670	1,800	630				
12/06/02	B17-7			<10	<10	--	--	--	--	--				
12/06/02	B17-15			<10	<10	--	--	--	--	--				
12/06/02	B17-25			330	4,100	--	--	--	--	--				
12/06/02	B17-30			--	--	<0.05	<0.05	0.53	0.86	<0.1				
12/06/02	B17-32			7,800	13,000	1.6	0.32	2.2	7.5	2.0				
12/06/02	B17-32*					12,000	<500	18,000	57,000	<500				
12/06/02	B17-34			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/06/02	B17-34			<10	<10									
12/06/02	B17-36			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/06/02	B18-25			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/06/02	B18-32			320	1,300	<0.05	<0.05	0.07	0.18	0.17				
12/06/02	B18-32*					<50	<50	<50	<100	150				
12/06/02	B18-34			--	--	<0.05	<0.05	<0.05	<0.15	0.21				
12/06/02	B18-34*					<5	<5	<5	<10	140				
12/06/02	B18-36			--	--	<0.05	<0.05	<0.05	<0.15	0.28				
12/06/02	B18-36*					<5	<5	<5	<10	250				
12/06/02	B18-40			--	--	<0.05	<0.05	<0.05	<0.15	<0.1				
12/09/02	B18			<500	<500	<0.05	<0.05	2.8	<0.15	6,100				
12/09/02	B18*					<50	<50	<50	<150	6,000				

Note: Shaded results are water sample concentrations in µg/L
BTEX MTBE analyzed by Method 8021, unless noted
-- = Not Analyzed

Wigington Oil

TABLE 3
Groundwater Elevation and Free Product Thickness

J.N. 252-06

WELL	DATE	TOP OF CASING	DEPTH TO GROUNDWATER	DEPTH TO FREE PRODUCT	FREE PRODUCT THICKNESS	GROUNDWATER ELEVATION
MW-1	05/25/88	363.90	28.73		0+	335.17
	03/10/98	363.90	27.03			336.87
	04/05/00	363.90	29.62			334.28
	04/26/02	362.84	30.21			332.63
	12/03/02	362.84	30.19			332.65
	10/25/07	362.84	--			--
	01/17/08	362.84	--			--
	04/18/08	362.84	29.86			332.98
	07/28/08	362.84	30.98			331.86
MW-2	05/25/88	365.40	30.03			335.37
	03/10/98	365.40	28.75			336.65
	04/05/00	365.40	32.23			333.17
	04/26/02	365.08	31.72			333.36
	12/03/02	365.08	31.90	31.83	0.07	--
	10/25/07	365.08	33.22	33.11	0.11	--
	01/17/08	365.08	31.93	31.87	0.06	--
	04/18/08	365.08	31.06			334.02
	07/28/08	365.08	32.52	32.51	0.01	--
MW-3	05/25/88	366.07	30.83			335.24
	03/10/98	366.07	28.25			337.82
	04/05/00	366.07	36.65			329.42
	04/26/02	364.16	31.37			332.79
	12/03/02	364.16	31.70	31.22	0.48	--
	10/25/07	364.16	33.04	32.32	0.72	--
	01/17/08	364.16	31.16	31.12	0.04	--
	04/18/08	364.16	30.91			333.25
	07/28/08	364.16	32.03	32.02	0.01	--
MW-4	05/25/88	362.90	27.68			335.22
	03/10/98	362.90	26.46			336.44
	04/05/00	362.90	29.98			332.92
	04/26/02	362.38	29.60			332.78
	12/03/02	362.38	29.50	29.41	0.09	--
	10/25/07	362.38	30.96	30.81	0.15	--

MAX 8.5"

Note: All measurements in feet.

Wigington Oil

TABLE 3
Groundwater Elevation and Free Product Thickness

J.N. 252-06

WELL	DATE	TOP OF CASING	DEPTH TO GROUNDWATER	DEPTH TO FREE PRODUCT	FREE PRODUCT THICKNESS	GROUNDWATER ELEVATION
	01/17/08	362.38	29.24	29.23	0.01	--
	04/18/08	362.38	29.25		—	333.13
	07/28/08	362.38	30.41		—	331.97
MW-5	03/10/98	NA	27.50			--
	04/26/02	363.42	30.39			333.03
	12/03/02	363.42	30.50			332.92
	10/25/07	363.42	31.72			331.70
	01/17/08	363.42	--			--
	04/18/08	363.42	31.07			332.35
	07/28/08	363.42	--			--
MW-6	04/26/02	362.44	29.77			332.67
	12/03/02	362.44	29.75			332.69
	10/25/07	362.44	31.01			331.43
	01/17/08	362.44	29.44			333.00
	04/18/08	362.44	29.47			332.97
	07/28/08	362.44	30.6			331.84
MW-7	04/26/02	362.57	29.47			333.10
	12/03/02	362.57	29.45			333.12
	10/25/07	362.57	30.85			331.72
	01/17/08	362.57	29.17			333.40
	04/21/08	362.57	29.16			333.41
	07/28/08	362.57	30.08			332.49
MW-8	04/26/02	364.51	31.71			332.80
	12/03/02	364.51	31.70			332.81
	10/25/07	364.51	33.02			331.49
	01/17/08	364.51	31.34			333.17
	04/21/08	364.51	31.42			333.09
	07/28/08	364.51	32.6			331.91
MW-9	04/21/08	362.33	29.49			332.84
	07/28/08	362.33	30.58			331.75
MW-10	04/21/08	367.28	32.52			334.76
	07/28/08	367.28	33.65			333.63
MW-11	04/21/08	362.48	29.98			332.50
	07/28/08	362.48	30.99			331.49

Note: All measurements in feet.

Wigington Oil

TABLE 3
Groundwater Elevation
and Free Product Thickness

J.N. 252-06

WELL	DATE	TOP OF CASING	DEPTH TO GROUNDWATER	DEPTH TO FREE PRODUCT	FREE PRODUCT THICKNESS	GROUNDWATER ELEVATION
MW-12	04/21/08	361.88	29.55			332.33
	07/28/08	361.88	30.49			331.39
MW-13	04/21/08	366.91	32.77			334.14
	07/28/08	366.91	34.08			332.83
MW-14	04/21/08	362.79	30.09			332.70
	07/28/08	362.79	31.14			331.65
MW-15	04/21/08	362.36	29.71			332.65
	07/28/08	362.36	30.76			331.60
MW-16	04/21/08	362.48	30.04			332.44
	07/28/08	362.48	31.02			331.46
MW-17	04/21/08	367.97	34.97			333.00
	07/28/08	367.97	36.08			331.89

Note: All measurements in feet.

FCB?

TABLE 4a
GROUNDWATER ANALYTICAL RESULTS
Site ASSESSMENT, 2008

Well No.	Depth to GW	TPHg	TPHd	Motor Oil	Benzene	Toluene	Ethylbenz.	Xylenes	MTBE	DIPE	ETBE	TBA	TAME
MW-2	NA	110,000,000*	930,000,000*	<1000,000*	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	28.65	**6,800**	<500	NA	**370**	**890**	**550**	**2,710**	**40**	<10	<10	<50	<10
MW-10	32.35	<500	<500	NA	<0.5	<0.5	<0.5	<1.5	**7.4**	<1.0	<1.0	<5.0	<1.0
MW-11	29.03	**530**	<500	NA	**21.2**	**1.29**	**12.8**	**2.17**	<1.0	NA	NA	NA	NA
MW-12	28.57	**31**	<500	NA	<1.0	<1.0	<1.0	<3.0	**16.7**	NA	NA	NA	NA
MW-13	32.26	<20	<500	NA	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<50	<1.0
MW-14	29.29	**53,100**	<500	NA	**5,260**	**490**	**2,440**	**8,510**	**455**	<100	<100	<5000	<100
MW-15	28.90	**5,800**	<500	NA	**279**	**34.5**	**658**	**780**	<25	<25	<25	<1250	<25
MW-16	28.93	**959**	<500	NA	**179**	<5.0	**94.4**	<15	**146**	<5.0	<5.0	<250	<5.0
MW-17	34.68	**1,410**	**8,390**	NA	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<50	<1.0

All results in µg/l

NA = Not analyzed

* = TPH by GC FID Gasoline (C5-C11), Diesel (C12-C24), Motor Oil (C25-C36).

TABLE 4b
HISTORIC GROUNDWATER ANALYTICAL DATA

Well No.	Date Sampled	GW Elevation	TPH	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME
MW-1	05/25/88	335.17	0.6	NA	NA	0.7	<0.5	NA	<0.05	NA	NA	NA	NA	NA
	03/10/98	336.87	NA	2,500	910	340	200	18	240	190*	NA	NA	NA	NA
	05/18/98	NR	NA	704	<500	326	89.5	<50	<100	<50	NA	NA	NA	NA
	04/05/00	334.28	NA	1,800	NA	250	14	34	380	200	NA	NA	NA	NA
	04/26/02	332.63	NA	1,100	1,100	230	14	36	220	190*	NA	NA	NA	NA
	12/03/02	332.65	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	10/25/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/17/08	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	04/18/08	332.98	NA	2,800	980	370	6.6	170	227.8	610	<50	<10	<10	<10
	07/28/08	331.86	NA	420	<500	57	<0.5	19	15	55	<10	<1.0	<1.0	<1.0
MW-2	05/25/88	335.37	<0.5	NA	NA	<0.5	<0.5	NA	<0.5	NA	NA	NA	NA	NA
	03/10/98	336.65	NA	330	<500	20	3.3	25	47	53*	NA	NA	NA	NA
	05/18/98	NR	NA	115	<500	98.5	<12.5	<12.5	<25	226*	NA	NA	NA	NA
	04/05/00	333.17	NA	7,600	NA	7.6	3.3	30	59	3,500	NA	NA	NA	NA
	04/26/02	333.36	NA	6,000	160,000	9.2	3.9	16	17	2,600	500	<20	<20	<20
	12/03/02	333.24	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	10/25/07	FP	--	--	--	--	--	--	--	--				
	01/17/08	FP	--	--	--	--	--	--	--	--				
	04/18/08	334.02	NA	510	6,400	<10	<10	<10	<30	1,300	<100	<20	<20	<20
	07/28/08	332.56 FP	NA	--	--	--	--	--	--	--	--	--	--	--
MW-3	05/25/88	335.24	140	NA	NA	19	3.4	NA	1.3	NA	NA	NA	NA	NA
	03/10/98	337.82	NA	2,300	5,100	3.6	0.7	0.7	4.1	2000*	NA	NA	NA	NA
	05/18/98	NR	NA	115	<500	98.5	<12.5	<12.5	<25.0	226*	NA	NA	NA	NA
	04/05/00	329.42	NA	420	NA	18	1.7	3.9	12	190	NA	NA	NA	NA
	04/26/02	332.79	NA	9,700	190,000	92	<3.0	56	62	590	1,200	<100	<100	<100
	12/03/02	332.84	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	10/25/07	FP	--	--	--	--	--	--	--	--				
	01/17/08	FP	--	--	--	--	--	--	--	--				
	04/18/08	333.25	NA	<500	<500	2.8	<1.0	<1.0	<3.0	99	240	<2.0	<2.0	<2.0
	07/28/08	332.13 FP	--	--	--	--	--	--	--	--	--	--	--	--
MW-4	05/25/88	335.22	6.3	NA	NA	<0.5	<0.5	NA	<0.5	NA	NA	NA	NA	NA
	03/10/98	336.44	NA	9,600	3,700	2,400	250	50	430	4,100*	NA	NA	NA	NA
	04/05/00	332.92	NA	8,700	NA	1,800	<12	110	790	900	NA	NA	NA	NA
	04/26/02	332.78	NA	15,000	95,000	4,500	150	450	1,900	1,500	<50	<50	<50	<50
	12/03/02	332.95	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	10/25/07	FP	--	--	--	--	--	--	--	--				
	01/17/08	FP	--	--	--	--	--	--	--	--				
	04/18/08	333.13	NA	2,000	4,500	380	2.9	95	41	110	<25	<5.0	<5.0	<5.0
	07/28/08	331.97	NA	2,100	1,300	410	<2.5	72	<10	70	<50	<5.0	<5.0	<5.0

All Units in µg/L
NA = Not analyzed
NR = Not Reported
FP = Free Product, elevation not determined analysis not performed
MTBE: * = Method 8020, otherwise results by Method 8260B.

Abandoned?

TABLE 4b
HISTORIC GROUNDWATER ANALYTICAL DATA

Well No.	Date Sampled	GW Elevation	TPH	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME
MW-5	03/10/98	NA	NA	730	1,700	20	0.6	<0.3	39	92*	NA	NA	NA	NA
	04/26/02	333.03	NA	500	2,000	7.3	1.7	2.8	6.8	230*	NA	NA	NA	NA
	12/03/02	332.92	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	10/25/07	331.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/17/08	--	--	--	--	--	--	--	--	--	--	--	--	--
	04/18/08	332.35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/28/08	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-6	04/26/02	332.67	NA	25,000	9,100	5,300	1,400	1,200	5,900	850*	NA	NA	NA	NA
	12/03/02	332.69	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	10/25/07	331.43	NA	570	<500	21	0.7	48	14	17	<5.0	<1.0	<1.0	<1.0
	01/17/08	333	NA	1,400	<500	9.6	0.6	4.8	8.5	3.5	<5.0	<1.0	<1.0	<1.0
	04/18/08	332.97	NA	2,000	750	500	<20	210	150	180	<200	<40	<40	<40
	07/28/08	331.84	NA	6,900	980	720	7.6	410	540	98	<100	<10	<10	<10
MW-7	04/26/02	333.1	NA	1,900	13,000	3.7	1.1	4.0	7.9	19*	NA	NA	NA	NA
	12/03/02	333.12	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	10/25/07	332.12	NA	<500	<500	<0.5	<0.5	<0.5	<0.5	<1.0	<5.0	<1.0	<1.0	<1.0
	01/17/08	333.4	NA	<500	<500	<0.5	<0.5	<0.5	<1.5	<1.0	<5.0	<1.0	<1.0	<1.0
	04/21/08	333.41	NA	<500	<500	<0.5	<0.5	<0.5	<1.5	<1.0	<5.0	<1.0	<1.0	<1.0
	07/29/08	332.49	NA	<50	<500	<0.5	<0.5	<0.5	<2.0	<1.0	<10	<1.0	<1.0	<1.0
MW-8	04/26/02	332.8	NA	4,800	6,500	50	9.2	170	210	64*	NA	NA	NA	NA
	12/03/02	332.81	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	10/26/07	331.49	NA	1,100	790	<0.5	<0.5	23	<0.5	<1.0	<5.0	<1.0	<1.0	<1.0
	01/17/08	333.17	NA	1,100	570	<0.5	<0.5	27	<1.5	<1.0	<5.0	<1.0	<1.0	<1.0
	04/21/08	333.09	NA	980	1,200	<0.5	<0.5	23	<1.5	<1.0	<5.0	<1.0	<1.0	<1.0
	07/29/08	331.91	NA	660	2,100	<0.5	<0.5	15	<2.0	<1.0	<10	<1.0	<1.0	<1.0
MW-9	04/18/08	332.84	NA	1,700	560	740	250	270	1,010	170	<50	<10	<10	<10
	07/28/08	331.75	NA	1,100	570	230	27	27	65	74	<50	>5.0	<5.0	<5.0
MW-10	04/18/08	334.76	NA	<500	<500	<0.5	<0.5	<0.5	<1.5	4.2	<5.0	<1.0	<1.0	<1.0
	07/29/08	333.63	NA	<50	<500	<0.5	<0.5	<0.5	<2.0	1.0	<10	<1.0	<1.0	<1.0
MW-11	04/18/08	332.5	NA	1,800	<500	22	<1.0	170	<3.0	<2.0	<10	<2.0	<2.0	<2.0
	07/29/08	331.49	NA	690	720	4.2	0.81	39	<2.0	<1.0	<10	<1.0	<1.0	<1.0
MW-12	04/18/08	332.33	NA	<500	<500	<1.0	<1.0	2.0	<3.0	65	<10	<2.0	<2.0	<2.0
	07/29/08	331.39	NA	<50	<500	<0.5	<0.5	<0.5	<2.0	11	<10	<1.0	<1.0	<1.0
MW-13	04/21/08	334.14	NA	<500	<500	<0.5	<0.5	<0.5	<1.5	<1.0	<5.0	<1.0	<1.0	<1.0

All Units in µg/L
NA = Not analyzed
NR = Not Reported
FP = Free Product, elevation not determined analysis not performed
MTBE: * = Method 8020, otherwise results by Method 8260B.

TABLE 4b
HISTORIC GROUNDWATER ANALYTICAL DATA

Well No.	Date Sampled	GW Elevation	TPH	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA	DIPE	ETBE	TAME
	07/30/08	332.83	NA	<50	<500	<0.5	<0.5	<0.5	<2.0	<1.0	<10	<1.0	<1.0	<1.0
MW-14	04/21/08	332.7	NA	27,000	3,800	5,300	290	2,400	6,460	650	<1,000	<200	<200	<200
	07/30/08	331.65	NA	25,000	12,000	6,600	170	2,400	3,700	270	<1000	<100	<100	<100
MW-15	04/21/08	332.65	NA	32,000	3,500	2,400	510	4,100	13,380	<200	<1,000	<200	<200	<200
	07/30/08	331.60	NA	46,000	17,000	2,100	250	3,700	10,000	<50	<500	<50	<50	<50
MW-16	04/21/08	332.44	NA	<500	<500	53	<2.5	77	<7.5	110	<25	<5.0	<5.0	<5.0
	07/30/08	331.46	NA	1,300	780	110	1.7	210	<4.0	160	<20	<2.0	<2.0	<2.0
MW-17	04/21/08	333	NA	990	3,100	<0.5	<0.5	<0.5	<1.5	<1.0	<5.0	<1.0	<1.0	<1.0
	07/30/08	331.89	NA	780	11,000	<5.0	<5.0	<5.0	<1.5	<10	<100	<10	<10	<10

All Units in µg/L
NA = Not analyzed
NR = Not Reported
FP = Free Product, elevation not determined analysis not performed
MTBE: * = Method 8020, otherwise results by Method 8260B.

APPENDIX A

PERMITS

PERMIT APPLICATION GROUNDWATER AND VADOSE MONITORING WELLS AND EXPLORATORY OR TEST BORINGS

RECEIVED
JAN 07 2008
ENVIRONMENTAL HEALTH

OFFICE USE ONLY
PERMIT LMON # _____
SAM CASE Y/N # _____
DATE RECEIVED: _____
FEE PAID: _____
CHECK # _____

A. RESPONSIBLE PARTY Ms. Linda Wigington E-mail wlf@lamesalaw.com
(The person, persons, or company responsible for the construction, maintenance, and destruction of the proposed borings and/or wells.)
Mailing Address 5464 Grossmont Center Dr. City La Mesa State CA Zip 91942-
Contact Person William L. Fischbeck, Esq. Phone 619-464-1200 Ext. _____
Fax 619-464-6471

B. SITE ASSESSMENT PROJECT NUMBER – IF APPLICABLE # 19469-001

C. CONSULTING FIRM Petra Geotechnical, Inc.
Mailing Address 12225 World Trade Dr. City San Diego State CA Zip 92128-
Registered Professional Chuck E. Houser Registration # 2206 (CEG)
E-mail chouser@petra-inc.com
Contact Person James S. Olbinski Phone 858-485-5530 Ext. _____ Fax 858-485-8215

D. DRILLING COMPANY Test America Drilling C57# 81548
Contact Name Manuel Marquez E-mail mmarquez@testamericainc.com
Mailing Address 7888 Othello Ave. City San Diego State CA Zip 92111-
Phone 619-686-5800 Fax 858-496-9658

E. CONSTRUCTION INFORMATION

TYPE OF WELLS/ BORINGS TO BE CONSTRUCTED

	#
☒ Groundwater	10
☐ Vadose	___
☐ Boring	___
☐ Other	___

NUMBER OF WELLS TO BE DESTROYED

☐	___

MATERIALS TO BE USED

CASING
Not Applicable _____
Type PVC
Gauge Sch 40
Diameter 2"
Well Screen Size 0.020
Filter Pack #3

SEAL/BORING BACKFILL
☐ Neat Cement
☐ Cement & Bentonite
☐ Sand-Cement
☒ Bentonite
☐ Other
Borehole diameter 8"

Drilling Method
☒ Auger ☐ Air Rotary
☐ Mud Rotary ☐ Other
☐ Percussion

PROPOSED CONSTRUCTION
Estimated groundwater depth: 30 ft.
Estimated depth of boring 40 ft.

Concrete surface seal	0 to 3
Annular seal	3 to 5
Bentonite transition seal	5 to 18
Filter Pack	18 to 40
Perforation	20 to 40

NOTE:
Attach a well construction diagram for wells with multiple completions

I agree to comply with the requirements of the current Site Assessment and Mitigation Manual, and with all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring construction and destruction.

DRILLER'S SIGNATURE _____ DATE 1/4/08

Within 60 days of completion, I will furnish the Monitoring Well Permit Desk with a complete and accurate well/boring log. I will certify the design and construction or destruction of the well/borings in accordance with the permit application.

RG/RCE/CEG SIGNATURE _____ DATE 1/4/08

F. SITE INFORMATION

1. **ASSESSOR'S PARCEL NUMBER** 382-320-06-00
Site Name Wigington Petroleum, Inc.
Site Address 11427 Woodside Avenue City Santee Zip 92017-

PROPERTY OWNER Ms. Linda Wigington
Phone 619-464-4200 Ext. Fax 619-464-6471
Mailing Address 2027 Paraiso Avenue City Spring Valley State CA
Zip 91977-

NUMBER OF WELLS 10- **TYPE OF WELLS** GW Monitoring

2. **ASSESSOR'S PARCEL NUMBER** 382-320-05-00
Site Name Asbury Property
Site Address 11433-45 Woodside Ave. City Santee Zip 92071-

PROPERTY OWNER Judith Asbury
Phone 619-588-4723 Ext. 100 Fax _____
Mailing Address 1900 Weld Blvd. City El Cajon State CA Zip 92020-

NUMBER OF WELLS 1- **TYPE OF WELLS** MW

3. **ASSESSOR'S PARCEL NUMBER** 382-320-07-00
Site Name Hurley Property
Site Address 11421, 16423, 11425 Woodside Ave. City Santee
Zip 92071-

PROPERTY OWNER Jeffery D. Hurley
Phone _____ Ext. _____ Fax _____
Mailing Address 8665 Argent St., Suite C City Santee State CA Zip 92071-

NUMBER OF WELLS 2- **TYPE OF WELLS** MW

F. SITE INFORMATION

1. **ASSESSOR'S PARCEL NUMBER** 382-320-38
Site Name City of Santee Right of Way
Site Address 15' NE. of APN 382-320-38 City Santee Zip _____

PROPERTY OWNER _____
Phone _____ Ext. Fax _____
Mailing Address _____ City _____ State __ Zip _____

NUMBER OF WELLS 1- **TYPE OF WELLS** MW

2. **ASSESSOR'S PARCEL NUMBER** 381-170-68
Site Name City of Santee Right of Way
Site Address 10' S. of APN 381-170-68 City Santee Zip _____

PROPERTY OWNER _____
Phone _____ Ext. _____ Fax _____
Mailing Address _____ City _____ State __ Zip _____

NUMBER OF WELLS 1- **TYPE OF WELLS** MW

3. **ASSESSOR'S PARCEL NUMBER** 381-170-58
Site Name City of Santee Right of Way
Site Address 10' SE. of APN 381-170-58 City Santee Zip _____

PROPERTY OWNER _____
Phone _____ Ext. _____ Fax _____
Mailing Address _____ City _____ State __ Zip _____

NUMBER OF WELLS 1- **TYPE OF WELLS** MW

4. **ASSESSOR'S PARCEL NUMBER** 381-170-62
Site Name City of Santee Right of Way
Site Address 10' S. of APN 381-170-62 City Santee Zip _____

PROPERTY OWNER _____
Phone _____ Ext. _____ Fax _____
Mailing Address _____ City _____ State __ Zip _____

NUMBER OF WELLS 1- **TYPE OF WELLS** MW

4. **ASSESSOR'S PARCEL NUMBER** 382-320-06
Site Name City of Santee Right of Way
Site Address 115' W. of APN 382-320-06 City Santee Zip _____

PROPERTY OWNER _____
Phone _____ Ext. _____ Fax _____
Mailing Address _____ City _____ State __ Zip _____

NUMBER OF WELLS 1- **TYPE OF WELLS** MW

G. FEES (in effect beginning July 1, 2007, through June 30, 2008)

ACTIVITY	FEE SCHEDULE	AMOUNT
Permit for Well Installations Only (Groundwater Monitoring Wells, Vadose, Vapor Extraction Wells)	$186.00 for the first monitoring well	**$186.00**
Permit for Well Maintenance Inspection (Valid for three years)	$100.00 for first well maintenance inspection	**$100.00**
Each Additional New Well	$160.00 for each additional well installation	**9** x **$160.00** **$1440.00**
	$ 30.00 for each additional well maintenance inspection	**9** x **$30.00** **$270.00**

Permit for Borings Only *(CPT's, Hydropunch, Geoprobes, Temporary Well Points, etc.)*	$186.00 for the first boring ..... $ 50.00 for each additional boring	___ x $186.00 ___ x $50.00	$_____ $_____
Permit for Well Destructions Only	$186.00 for the first destruction ..... $120.00 for each additional destruction ...	___ x $186.00 ___ x $120.00	$_____ $_____
Permit for any Combination of Well Installations, Borings, & Destructions (except *UST backfill permit*)	The first activity will be $186.00 **Additional activities will be as follows:** $160.00 for each additional well $100.00 for first well maintenance inspection $ 30.00 for each additional well maintenance inspection $120.00 for each well destruction $ 50.00 for each additional boring	___ x $186.00 ___ x $160.00 ___ x $100.00 ___ x $ 30.00 ___ x $120.00 ___ x $ 50.00	$_____ $_____ $_____ $_____ $_____ $_____
Permit for Underground Storage Tank Monitoring System in Backfill *(i.e. Enhanced Leak Detection)*	**$320.00 (Flat Fee)**		$_____
	TOTAL COST OF PERMIT		**$1996.00**

H. QUESTIONNAIRE: Please answer all applicable questions completely. For well destructions, complete only #1 below and submit any required supportive documentation.

1. If wells are to be destroyed, provide a description of method of destruction N/A

2. What is the purpose of the well/boring investigation?

   ☒ a. Part of an ongoing site assessment case in which a government regulator is the lead agency. If yes, indicate which government regulator is the lead agency and the case number.

   H19469-001
   DEH _____ RWQCB _____ DTSC

   ☐ b. Part of a Phase I investigation for property ownership transfer or: _____

   ☐ c. Geotechnical investigation for proposed construction, land stabilization or:

   ☐ d. Other: _____

3. What procedures will be used to prevent the well/boring from providing an avenue to contamination during construction? Augers will be left in boring until seal is put in place.

4. What field procedures will be utilized to determine if contamination exists? A PID will be used during drilling.

5. What procedures will be used to determine whether samples will be sent for laboratory testing or archiving? All samples will be submitted to the laboratory for analysis.

6. What constituents will be monitored and tested (Include EPA Laboratory Test Methods to be used)? TPHg and TPHd by EPA Method 8015 and BTEX, MTBE and oxygenates by EPA Method 8260B.

7. How will samples be transported and preserved? All samples will be packed in an ice-filled cooler or delivered directly to an on-site mobile laboratory.

8. What sampling methods will be used? Samples will be collected using a split-spoon ar similar sampler lined with brass or stainless steel sleeves.

9. Are you proposing a variation from the methods and/or procedures presented in the requirements for the construction or destruction of Vadose and Groundwater Monitoring Wells (Current SAM Manual Requirements)? If yes, specify these variations and include a well construction diagram and all required supporting documentation. Refer to the SAM Manual Appendix B for monitoring well guidelines (http://www/sdcounty.ca.gov/deh/lwq/sam/monitoring_well.html). :No.

10. Are you proposing a variation in drilling and destruction of soil borings from the methods and/or procedures specified in the current SAM manual? If yes, specify these variations and include a destruction diagram. No.

11. What procedures will be used to ensure that the drilling equipment will introduce no contamination? All drilling equipment will be pre-cleaned and decontaminated between borings.

12. What methods will be used to clean sampling equipment? Equipment will be cleaned between sampling events using an Alconox-water wash, followed by a tap-water rinse, and a final rinse with distilled water.

13. What cleaning method will be used to clean casing and screen prior to installation? Casing and screen will be celivered to the site in plastic.

14. A property owner consent agreement is required for all applications, except for onsite, open LOP/SAM site assessment cases, Caltrans properties and military properties. If a consent agreement is required, how has the property owner been notified of the proposed work? _____

A. ☒ The attached Property Owner Consent letter.

B. ☐ The attached consent agreement between the responsible party and the property owner with a cover letter signed by the registered professional who signed the permit application.

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
www.sdcounty.ca.gov/deh/lwq

JACK MILLER
ASSISTANT DIRECTOR

PROPERTY OWNER CONSENT

Proposed locations for subsurface work:

Property Address: 11433-45 Woodside Ave. Santee, CA 92071

Assessor's Parcel Number (APN): 382-320-05-00

I, James Asbury, owner of the property/properties listed above, give my permission to Petra Geotechnical Inc (consulting company, contractor) to conduct the following work at the locations stated above.

☒ Install 1 monitoring wells ☐ Destroy _____ monitoring wells ☐ Drill _____ soil borings

I understand that Charles Hooser (registered professional) of Petra Geotechnical (consulting company) and an authorized signer for Test America (drilling company) have submitted a signed application to the Department of Environmental Health in which they have agreed to complete the above-stated work according the requirements of the current SAM Manual, all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring construction and destruction. I have arranged with the Responsible Party, the person who causes to have monitoring wells/borings installed or existing wells destroyed on this property, to ensure proper closure of the monitoring wells/borings.

Property Owner Signature: _____ Date: 12/26/2007

Print Name: JAMES A. ASBURY Title: OWNER

Cornpany: _____

Mailing Address: 1900 WELD BLVD., EL CAJON, CA. 92020

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
www.sdcounty.ca.gov/deh/lwq

PROPERTY OWNER CONSENT

Proposed locations for subsurface work:

Property Address: 11421, 11423, 11425 Woodside Ave Santee, CA 92071

Assessor's Parcel Number (APN): 382-320-07

I, Jeffery D. Hurley, owner of the property/properties listed above, give my permission to Petra Geotechnical, Inc (consulting company, contractor) to conduct the following work at the locations stated above.

☒ Install 2 monitoring wells ☐ Destroy _____ monitoring wells ☐ Drill _____ soil borings

I understand that Charles Houser (registered professional) of Petra Geotechnical (consulting company) and an authorized signer for Test America (drilling company) have submitted a signed application to the Department of Environmental Health in which they have agreed to complete the above-stated work according the requirements of the current SAM Manual, all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring construction and destruction. I have arranged with the Responsible Party, the person who causes to have monitoring wells/borings installed or existing wells destroyed on this property, to ensure proper closure of the monitoring wells/borings.

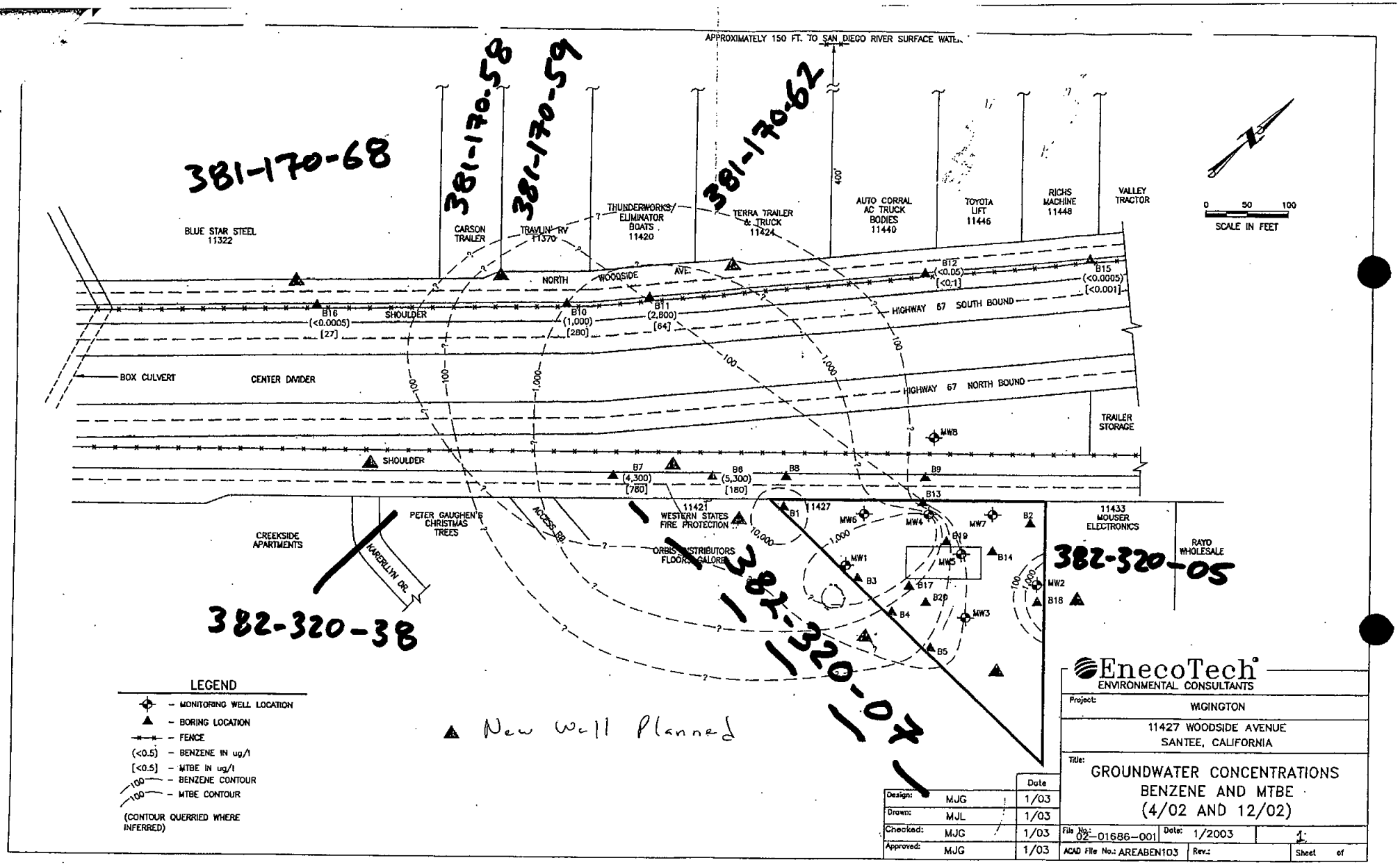
Property Owner Signature: _____ Date: 12-19-06

Print Name: Jeffery D. Hurley Title: Co-Trustee

Company: Hurley Family Trust

Mailing Address: 8665 Argent St #C Santee, CA 92071

DEH:SAM-9503 (Rev. 9-06)



EnecoTech
ENVIRONMENTAL CONSULTANTS

Project: WIGINGTON
11427 WOODSIDE AVENUE
SANTEE, CALIFORNIA

Title: GROUNDWATER CONCENTRATIONS BENZENE AND MTBE (4/02 AND 12/02)

		Date
Design:	MJG	1/03
Drawn:	MJL	1/03
Checked:	MJG	1/03
Approved:	MJG	1/03

File No.: 02-01686-001 | Date: 1/2003 | 1
ACAD File No.: AREABEN103 | Rev.: | Sheet of

ORIGINAL DOCUMENT PRINTED ON CHEMICAL REACTIVE PAPER WITH MICROPRINTED BORDER

20713

PETRA GEOTECHNICAL, INC.
3185-A AIRWAY AVE.
COSTA MESA, CA 92626
(714) 549-8921

CITY NATIONAL BANK
The way up.

18111 Von Karman, Suite 100
Irvine, CA 92612

16-1606/1220

ONE THOUSAND NINE HUNDRED NONETY SIX DOLLARS AND 00 CENTS

DATE	AMOUNT
12/21/07	*******1996.00*

PAY TO THE ORDER OF COUNTY OF SAN DIEGO

Deanne Kennedy

Details on back.

Security Features Included.

SAFEGUARD SECURES

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⑈020713⑈ ⑆122016066⑆ 023⑈833166⑈

PERMIT # LMON105428
A.P.N. #382-320-06, 05, 07, 38, 381-170-68, 58, 62
EST # H19469

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
MONITORING WELL PROGRAM

MONITORING WELL AND BORING CONSTRUCTION AND DESTRUCTION PERMIT

SITE NAME: WIGINGTON PETROLEUM, INC

SITE ADDRESS: 11427 WOODSIDE AVE., SANTEE, CA 92017 AND OFF-SITE

PERMIT FOR: INSTALL 10 MONITORING WELLS

PERMIT APPROVAL DATE: 01/29/2008

PERMIT EXPIRES ON: 05/28/2008

RESPONSIBLE PARTY: MS. LINDA WIGINGTON

PERMIT CONDITIONS:

1. Wells must have a **minimum 3-foot concrete surface seal**. The surface seal shall consist of concrete able to withstand the maximum anticipated load without cracking or deteriorating. The concrete should meet Class A specifications of a minimum 4000-pound compressive strength.

2. All water and soil resulting from the activities covered by this permit must be managed, stored and disposed of as specified in the SAM Manual in Section 5, II, E- 4. (**http://www.sdcounty.ca.gov/deh/lwq/sam/manual_guidelines.html**). In addition, drill cuttings must be properly handled and disposed in compliance with the Stormwater Best Management Practices of the local jurisdiction.

3. Within 60 days of completing work, submit a well construction report, including all well and/or boring logs and laboratory data to the Well Permit Desk. This report must include all items required by the SAM Manual, Section 5, Pages 6 & 7.

4. This office must be given 48-hour notice of any drilling activity on this site and advanced notification of drilling cancellation. Please contact the Well Permit Desk at 338-2339.

NOTE: **This permit does not constitute approval of a work plan as defined in Section 2722 of Article 11 of C.C.R., Title 23. Work plans are required for all unauthorized release investigations in San Diego County.**

APPROVED BY: _____ DATE: 01/29/2008
JAMES CLAY

NOTIFIED: _____

DEH:SAM-9075 (3/05)

ENCROACHMENT PERMIT

CITY OF SANTEE DEPARTMENT OF DEVELOPMENT SERVICES ENGINEERING DIVISION 10601 MAGNOLIA AVENUE (619) 258-4100 x 170	**PERMIT NO.:** N2006-120 **EFFECTIVE DATE:** 11/28/06 **EXPIRATION DATE:** 11/28/07

(FOR APPLICANT TO COMPLETE)

PERMITTEE

Name (s): Charles E. Hauser Melissa Mont.	Title: Associate Geologist Staff Geologist	
Address: 12275 World Trade Dr, Ste P		
City: San Diego	State: CA	Zip: 92128
Telephone: (858) 485-5530		

CONTRACTOR

Contact: Manuel Marquez		
Business Name: ~~West Hazmat~~ Test America Drilling, Inc		
Address: 3620 Kurtz Street		
City: San Diego	State: CA	Zip: 92110
Telephone: (619) 686-5800	Mobile: ( )	
City Business Lic. No.: 11185	State Contractor's Lic. No.: 819548	
Certificate of Insurance: BR01558868		

DESCRIPTION OF WORK

Work to be done: Installation of 5 Groundwater Monitoring Wells in the Boulders of N and S Woodside Avenues

Location: Wingfield Petroleum/ ~~Hall Capital~~	Assessor's Parcel No.: 582-320-06
Street Address: 11477 Woodside Ave., Santee	Nearest Cross Street: Karenlyn Dr.
Reference Plan:	Project No.: 252-06
Reason for Encroachment: Installation of Ground Water Monitoring Wells	

Estm. Start Date: 12/4/06	Estm. Completion Date: 12/8/06	Duration Requested: 5 days

An encroachment permit is hereby granted pursuant to the Santee Municipal Code, for the benefit of property described to encroach upon public right of way for the work described above. In consideration of the granting of this encroachment permit, the applicant covenants and agrees to conditions described in ***Exhibit A*** *attached as part of this permit.*

This Agreement, made and entered into this 1 *day of* November *, 200*6*, by and between the City of Santee, a municipal corporation, and the Permittee. Whereas, as conditions contained in this encroachment permit, Permittee has read, understand and agree to the terms of said permit.*

PERMITTEE
Signature: _____ *Title:* Associate Geologist

CITY OF SANTEE
Granted by: _____ *Title:* Junior Eng.

(For Inspector and Telephone Number see Exhibit A)

(FOR CITY USE ONLY)

TYPE OF ENCROACHMENT PERMIT				FEES AND SECURITY	
Utilities		Temporary		Issuance Fee	$ 15.00
Construction		Permanent (Record)		Inspection Fee	$ ~~750.00~~ (5@ ~~150.00~~)
				Security Deposit	$ 2,500.00 (5@ ~~500.00~~)

J.N. 252-06

CITY OF SANTEE

MAYOR
Randy Voepel

CITY COUNCIL
Jack E. Dale
Brian W. Jones
John W. Minto
Hal Ryan

CITY MANAGER
Keith Till

December 12, 2007

Petra Geotechnical, Inc.
12225 World Trade Dr. Suite P
San Diego, CA 92128
858-485-5530

Attention: James S. Olbinski
Associate Geologist

SUBJECT: ENCROACHMENT PERMIT # N 2006-120
PERMIT RENEWAL

This letter serves as formal acknowledgement of your request for renewal of the existing referenced permit. We have reviewed all the necessary documents submitted for the extension and the permit is hereby extended with a new expiration date of November 28, 2008.

If you have any questions or I may be of further service please let me know at 619-258-4100 ext 165.

Moe Zarabi
Junior Engineer-Land Development

RECEIVED
DEC 14 2007

APPENDIX B

BORING LOGS

PETRA

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.:	**MW-09**
Location: **Woodside Avenue, Santee**		Date:	**2/4/08**
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By:	**DBS/CEH**
Drilling Co.: **Test America**		Approved By:	

Depth to Water: 28.87 ft. Total Depth of Boring: 40.5 ft.

Depth (Feet)	Material Description	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Collection Time	Other Lab Tests
	Concrete 7".								
	ALLUVIUM (Qal) Sand (SW): dark olive brown (2.5Y 3/3), moist, loose; fine to coarse sand.								
5	Sand (SW): olive brown (2.5Y 4/3), moist, medium dense; fine to very coarse, interbedded sands and coarse sands.			8 9 11			MW-9 @5'	9:30 am	PID: 8.5 ppm
	Fine Sand with Some Gravels (SW/SP): (10YR 3/3).								
10	Sand (SW): yellowish brown (10YR 5/4), moist, medium dense; fine to coarse sand with some very coarse sand and small gravels.			11 12 15			MW-9 @10'	9:38 am	PID: 15.5 ppm
15	Sand (SW): brown (10YR 4/3), moist, medium dense; interbedded fine to medium sand with some coarse.			7 14 14			MW-9 @15'	9:47 am	PID: 12.1 ppm
20	Silty Fine Sand (SM): very dark gray (2.5Y 3/1), moist to wet, medium dense; fine sand with some medium sands, silt and possible trace clay.			8 10 16			MW-9 @ 20'	9:55 am	PID: 11.4 ppm

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-1

Petra Geotechnical, Inc.

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.:	**MW-09**
Location: **Woodside Avenue, Santee**		Date:	**2/4/08**
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By:	**DBS/CEH**
Drilling Co.: **Test America**		Approved By:	

Depth (Feet)	Lith-ology	Material Description	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Field and Laboratory Tests: Collection Time	Field and Laboratory Tests: Other Lab Tests
		Depth to Water: 28.87 ft. Total Depth of Boring: 40.5 ft.								
		Sand (SP): olive gray (5Y 5/2), moist, dense; poorly graded medium sands, hydrocarbon staining at 26', strong odor.			15 20 26			MW-9 @25'	10:02 am	PID: 22.6 ppm
		Gravel bed at 27'.								
		Static water at 28.87' 2/5/08 10:45 AM, water first encountered at 28'		▽						
30		Very coarse sand (SP).								
		Silty Sand (SM): black (5Y 2.5/1), wet, dense; fine sand with silt and trace clay, strong odor, staining.			8 13 42			MW-9 @30'	10:08 am	PID: 20.4 ppm
35		Sand (SP): dark yellow brown (10YR 4/4), wet/saturated, dense to very dense; coarse sand, slight odor.			10 20 31			MW-9 @35'	10:15 am	PID: 1.2 ppm
		Sand (SW): dark yellow brown (10YR 3/4), saturated, medium dense; well graded medium to very coarse sand.			5 9 12			MW-9 @39'	10:21 am	PID: 8.9 ppm
40		Total Depth = 40.5'								
		Groundwater first encountered @ 28'; static water @28.87'								
		WELL CONSTRUCTION: 4" Well set @ 39'								
		0-24' Blank Interval Sch. 40 PVC								
		24-39' Screen Interval (15') Sch.40 PVC (0.02 slot)								
		Traffic Rated Vault Box								
		0-3' Concrete Seal (2 cubic feet)								
		3-5' Hydrated Bentonite Chips (.9 cubic feet)								
		5-19' Groutwell (6.4 cubic feet)								
		19-22'Hydrated Bentonite Chips (1.4 cubic feet)								
		22-40.5' Sand Pack (8.25 cubic feet).								

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-2

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.:	**MW-10**
Location: **Woodside Avenue, Santee**		Date:	**2/5/08**
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By:	**DBS**
Drilling Co.: **Test America**		Approved By:	

Depth (Feet)	Lith-ology	Material Description	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Collection Time	Other Lab Tests
		Depth to Water: 33 ft. Total Depth of Boring: 44 ft.								
		Concrete 8".								
		ALLUVIUM (Qal) Sand (SP): dark brown (7.5Y 3/2), moist, loose; fine sand with some silt, trace gravels.								
5		Sand (SW/SP): dark olive brown (2.5Y 3/3), slightly moist to moist, medium dense; medium course sands with some fines and small gravels.			5 9 14			MW-10 @5'	1:18 pm	PID: 0.0
		Sand (SP): olive brown (7.5Y 4/4), slightly damp, medium dense; medium sand.								
10		**RESIDUAL SOIL** Clayey Fine Sand with Silt (SC): dark brown (7.5YR 3/4), moist, dense; manganese staining.			8 18 21			MW-10 @10'	1:25 pm	PID: 0.0
15		Clayey Fine Sand with Silt (SC): dark reddish brown (5YR 3/4), moist, very dense.			18 31 38			MW-10 @15'	3:15 pm	PID: 0.0
20		Boulder @ 20'.			50/2"			MW-10 @20'	3:23 pm	PID:8.0, Partial Recovery ~1-2"

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-3

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.: **MW-10**	
Location: **Woodside Avenue, Santee**		Date: **2/5/08**	
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By: **DBS**	
Drilling Co.: **Test America**		Approved By:	

Depth (Feet)	Lith-ology	Material Description (Depth to Water: 33 ft. Total Depth of Boring: 44 ft.)	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Collection Time	Other Lab Tests
		Clayey Sand with Gravels (SC): dark brown (7.5 YR 3/3) to dark reddish brown, slightly moist, dense; fine to medium sand with clay and gravels/rock fragments.			12 16 21			MW-10 @25'	3:40 pm	PID:17.0 Partial Recovery ~1"
30		**BEDROCK - Weathered Granitics (Kgr)** Granite: dark yellowish brown (10YR 4/6), slightly moist, hard; Fe_2O_3 oxidation, can be scratched with knife.			50/3"			MW-10 @30'	4:03 pm	PID: 8.1, Auger broke ~4:15 At ~31'
		Groundwater @ 33' (12:40 pm 2/5).		▼						
35		Granite: dark yellowish brown (10YR 4/6), slightly moist, very hard; possible fracture at 36'; water encountered at 36' (12:20 pm 2/5).		▽	50/4"			MW-10 @35'	11:58 am	PID: 0.0 (2/5)
40		Granite: dark olive brown (2.5 Y 3/3), moist to very moist, hard.			50/5"			MW-10 @40'	12:15 pm	PID: 0.0 (2/5)
		@ 43' Granite: dark olive brown (2.5Y 3/3), moist to very moist, hard.			25 50/6"			MW-10 @43'	12:58 pm	PID: 0.0 (2/5)
		Total Depth = 44' Groundwater first encountered @ 33'; static water @ 36' WELL CONSTRUCTION: 4"Well set @ 40' 0-25' Blank Interval Sch. 40 PVC 25-40' Screen Interval (15') Sch 40 PVC (0.02 slot) Traffic Rated Vault Box 0-3' Concrete Seal (2 cubic feet) 3-5' Hydrated Bentonite Chips (.9 cubic feet) 5-19' Groutwell (6.4 cubic feet)								

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-4

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.:	**MW-10**
Location: **Woodside Avenue, Santee**		Date:	**2/5/08**
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By:	**DBS**
Drilling Co.: **Test America**		Approved By:	

Depth (Feet)	Lith-ology	Material Description Depth to Water: 33 ft. Total Depth of Boring: 44 ft.	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Field and Laboratory Tests: Collection Time	Field and Laboratory Tests: Other Lab Tests
		19-22'Hydrated Bentonite Chips (1.4 cubic feet) 22-40' Sand Pack (10.4 cubic feet).								

PLATE B-5

Petra Geotechnical, Inc.

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.:	**MW-11**
Location: **Woodside Avenue, Santee**		Date:	**2/8/08**
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By:	**DBS**
Drilling Co.: **Test America**		Approved By:	

Depth to Water: 28.93 ft. Total Depth of Boring: 39.5 ft.

Depth (Feet)	Lith-ology	Material Description	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Field and Laboratory Tests: Collection Time	Field and Laboratory Tests: Other Lab Tests
		A/C 3".								
		ALLUVIUM (Qal) Sand with Trace Clay/Silt (SW): dark brown (7.5YR 3/3), moist, loose to medium dense.								
5		Sand (SW): interbedded dark brown (7.5 YR 3/2) and dark olive gray (5Y 3/2), moist, medium dense to dense; coarse.			11 16 21			MW-11 @5'	9:50 am	PID: 4.3
10		Sand (SW): brown (10YR 4/3), moist, dense; coarse.			4 20 29			MW-11 @10'	9:58 am	PID: 0.0
15		Sand (SW): light yellow brown (2.5Y 6/3) to light olive brown (2.5Y 5/3), slightly moist, medium dense; interbedded coarse and medium sand.			6 7 11			MW-11 @15'	10:04 am	PID: 0.0
20		Sand with Some Gravels (SW): dark grayish brown (2.5Y 4/2), moist, dense; medium to very coarse sand with gravels and trace silt/clay.			12 21 25			MW-11 @20'	10:10 am	PID: 0.2

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-6

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.: **MW-11**	
Location: **Woodside Avenue, Santee**		Date: **2/8/08**	
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By: **DBS**	
Drilling Co.: **Test America**		Approved By:	

Depth (Feet)	Lith-ology	Material Description Depth to Water: 28.93 ft. Total Depth of Boring: 39.5 ft.	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Collection Time	Other Lab Tests
		Sand (SW): light olive brown (2.5Y 5/3), very moist, medium dense to dense; coarse sand, porous.			7 18 22			MW-11 @25'	10:16 am	PID: 0.0
		Groundwater @ 28.93' (3:40 pm).		▼						
30		Sand (SW): olive brown (2.5Y 4/3), wet, medium dense; coarse sand, water first encountered @ ~30'.		▽	4 6 16			MW-11 @30'	10:30 am	PID: 0.0
35		Sand (SP/SW): very dark gray (5Y 3/1), wet, medium dense; fine to medium sand with some coarse; hydrocarbon odor.			8 6 16			MW-11 @35'	10:36 am	PID: 0.0
		Sand (SW): dark gray (5Y 4/1), wet, medium dense to dense; fine to very coarse sand, coarsens up, no odor.			6 20 20			MW-11 @38'	10:39 am	PID: 0.0
		Total Depth = 39.5'								
		Groundwater first encountered @ 30.5'; static water @ 28.93'								
		WELL CONSTRUCTION: 2" Well set @ 38'								
		0-23' Blank Interval Sch. 40 PVC								
		23-38' Screen Interval (15') Sch 40 PVC (0.02 slot)								
		Traffic Rated Vault Box								
		0-3' Concrete Seal (1.5 cubic feet)								
		3-3.5' Hydrated Bentonite Chips (.16 cubic feet)								
		3.5-18' Groutwell (4.8 cubic feet)								
		18-21' Hydrated Bentonite Chips (1.4 cubic feet)								
		21-39.5' Sand Pack (5.9 cubic feet).								

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-7

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.:	**MW-12**
Location: **Woodside Avenue, Santee**		Date:	**2/8/08**
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By:	**DBS**
Drilling Co.: **Test America**		Approved By:	

Depth (Feet)	Lith-ology	Material Description (Depth to Water: 29.3 ft. Total Depth of Boring: 40.5 ft.)	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Collection Time	Other Lab Tests
		A/C 3".								
		ALLUVIUM (Qal) Clayey Sand (SC): dark brown (7.5YR 3/3), moist, loose; fine to medium sand with clay and trace gravels.								
5		Sand (SW): brown (10YR 5/3), dry to slightly moist,very dense; fine to coarse sand.			21 28 29			MW-12 @ 5'	2:26 pm	PID: 0.0
10		Sand (SW): grayish brown (10YR 5/2), slightly moist, medium dense.			14 15 8			MW-12 @ 10'	2:30 pm	PID: 0.0
15		Sand (SW): light olive brown (2.5Y 5/4), slightly moist to moist, medium dense; coarse sand with some fine to medium matrix sands (20%).			17 18 26			MW-12 @ 15'	2:35 pm	PID: 0.0
20		Sand (SP): very dark gray brown (2.5Y 3/2), moist, medium dense; poorly sorted fine to medium sands interbedded with some silty fine sands.			9 5 6			MW-12 @ 20'	2:40 pm	PID: 0.0

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-8

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.: **MW-12**	
Location: **Woodside Avenue, Santee**		Date: **2/8/08**	
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By: **DBS**	
Drilling Co.: **Test America**		Approved By:	

Depth (Feet)	Lith-ology	Material Description (Depth to Water: 29.3 ft. Total Depth of Boring: 40.5 ft.)	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Collection Time	Other Lab Tests
		Sand (SP): light olive brown (2.5Y 5/4), moist, medium dense, medium to coarse sand; slight odor?.			10 10 14			MW-12 @ 25'	2:45 pm	PID: 0.0
		Groundwater @ 29.30' (3:05)		▼						
30		Water first encountered @ ~30' (2:50).		▽						
		Sand (SW): olive brown (2.5Y 4/3), saturated, dense to very dense; coarse sand, porous, possible slight odor.			9 24 25			MW-12 @ 30'	2:54 pm	PID: 0.0
35		Sand (SW): dark grayish brown (2.5Y 4/2), saturated, medium dense; fine to very coarse sand (>50% coarse) with some silt/clay, well graded, no odor.			4 12 19			MW-12 @ 35'	3:12 pm	PID: 0.0
		Same as @35' but very dense, slight odor.			17 28 36			MW-12 @ 39'	3:17 pm	PID: 2.8
40		Total Depth = 40.5'								
		Groundwater first encountered @ ~30'; static water @ 29.30'								
		WELL CONSTRUCTION: 2" Well set @ 38'								
		0-24' Blank Interval Sch. 40 PVC								
		24-39' Screen Interval (15') Sch 40 PVC (0.02 slot)								
		Traffic Rated Vault Box								
		0-3' Concrete Seal (1.5 cubic feet)								
		3-4' Hydrated Bentonite Chips (.33 cubic feet)								
		4-18.5' Groutwell (4.8 cubic feet)								
		18.5-21.5' Hydrated Bentonite Chips (1 cubic feet)								
		21.5-40.5' Sand Pack (6 cubic feet).								

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-9

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.:	**MW-13**
Location: **Woodside Avenue, Santee**		Date:	**2/18/08**
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By:	**DBS**
Drilling Co.: **Test America**		Approved By:	

Depth (Feet)	Lith-ology	Material Description (Depth to Water: 29.17 ft. Total Depth of Boring: 51.5 ft.)	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Field and Laboratory Tests: Collection Time	Field and Laboratory Tests: Other Lab Tests
		A/C 5".								
		ARTIFICIAL FILL (Qaf) Sand (SW): brown, dry, loose.								
		Concrete 2".								
		ALLUVIUM (Qal) SiltySand (SW): dark brown (10YR 3/3), moist, very loose; fine poorly graded sand with silt and trace clay.								
5		Silty Sand (SM): dark yellow brown (10YR 4/3), moist, loose to medium dense; fine sand with silt and trace clay.			5 6 7			MW-13 @5'	8:17 am	
10		Silty Sand (SM): olive brown (2.5Y 4/3), slightly moise, medium dense; fine sand.			6 6 9			MW-13 @10'	8:21 am	
15		Silty Sand (SM): dark olive brown (2.5Y 3/3) moist, medium dense; fine sand.			6 8 15			MW-13 @15'	9:10 am	PID: 0.0
20		Sand (SP): dark yellow brown (10YR 3/4), moist, medium dense; medium sand with silt and trace clay.			9 10 13			MW-13 @20'	9:16 am	PID: 0.0

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-10

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.: **MW-13**	
Location: **Woodside Avenue, Santee**		Date: **2/18/08**	
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By: **DBS**	
Drilling Co.: **Test America**		Approved By:	

Depth to Water: 29.17 ft. Total Depth of Boring: 51.5 ft.

Depth (Feet)	Material Description	Well Details	Water	Samples: Blows Per 6 in.	Run	Rec	Field and Laboratory Tests: Sample Name	Collection Time	Other Lab Tests
	Silty Sand (SP/SM): dark yellow brown (10YR 3/4), moist, medium dense; very similar to above but finer grained.			9 9 13			MW-13 @25'	10:20 am	PID: 0.0
	Groundwater @ 29.17' (3:45).		▼						
30	Clayey Sand (SW/SC): dark yellow brown (10YR 3/6), moist, very dense; well graded fine to very coarse sands in clayey matrix.			18 22 31			MW-13 @30'	10:26 am	PID: 0.0
35	Clayey Sand (SW/SC): dark brown (7.5YR 3/4), very moist to wet, dense.			10 15 21			MW-13 @35'	10:35 am	PID: 0.0
40	Clayey Sand (SC/CL): dark brown (7.5 YR 3/3): moist, loose to medium dense; fine sand.			3 3 3			MW-13 @40'	10:46 am	PID: 0.0
45	Groundwater first encountered @ ~45' (10:50)		▽						
	Clayey Sand to Sandy Clay (SC/CL): dark yellow brown (10YR 3/6), moist to wet, dense.			5 15 16			MW-13 @45'	10:53 am	PID: 0.0

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-11

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.: **MW-13**	
Location: **Woodside Avenue, Santee**		Date: **2/18/08**	
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By: **DBS**	
Drilling Co.: **Test America**		Approved By:	

Depth (Feet)	Lith-ology	Material Description Depth to Water: 29.17 ft. Total Depth of Boring: 51.5 ft.	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Field and Laboratory Tests: Collection Time	Field and Laboratory Tests: Other Lab Tests
		Clayey Sand with Silt (SP/SC): dark yellow brown (10YR 3/6) mottled with gray (10YR 5/1), moist to wet, medium dense; fine sand with clay and silt.			10 12 15			MW-13 @50'	11:00 am	PID: 0.0
		Total Depth = 51.5' Groundwater first encountered @ 45'; static water @ 29.17' WELL CONSTRUCTION: 2" Well set @45' 0-25' Blank Interval Sch. 40 PVC 25-45' Screen Interval (15') Sch 40 PVC (0.02 slot) Traffic Rated Vault Box 0-3' Concrete Seal (1.5 cubic feet) 3-5' Hydrated Bentonite Chips (.65 cubic feet) 5-19' Groutwell (4.6 cubic feet) 19-22.5' Hydrated Bentonite Chips (1.15 cubic feet) 22.5-46' Sand Pack (7.7 cubic feet) 46-51.5' Hydrated Bentonite Chipes (1.4 cubic feet).								

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-12

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.:	**MW-14**
Location: **Woodside Avenue, Santee**		Date:	**2/18/08**
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By:	**DBS**
Drilling Co.: **Test America**		Approved By:	

Depth (Feet)	Lith-ology	Material Description	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Collection Time	Other Lab Tests
		Depth to Water: 29 ft. Total Depth of Boring: 41.5 ft.								
		A/C 3".								
		ALLUVIUM (Qal) Clayey Sand (SP): dark olive brown (2.5Y 3/3), moist, loose.								
5		Sand (SP): olive brown (2.5Y 4/4), slightly moist, medium dense; poorly graded medium sands with some fine sand.			10 11 17			MW-14 @5'	2:10 pm	PID: 0.0
10		Sand (SW): light olive brown (2.5Y 5/3), moist, medium dense; fine to very coarse interbedded sands, salt and peper coloring.			8 11 12			MW-14 @10'	2:16 pm	PID: 0.0
15		Sand (SW): dark olive brown (2.5Y 3/3), moist, medium dense, medium to very coarse sands.			9 12 18			MW-14 @15'	2:23 pm	PID: 0.0
20		Sand (SP): grayish brown (2.5Y 5/2), moist, medium dense; fine to medium sands, moderately poorly graded.			7 12 14			MW-14 @20'	2:30 pm	PID: 0.0

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-13

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.: **MW-14**	
Location: **Woodside Avenue, Santee**		Date: **2/18/08**	
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By: **DBS**	
Drilling Co.: **Test America**		Approved By:	

Depth (Feet)	Lith-ology	Material Description (Depth to Water: 29 ft. Total Depth of Boring: 41.5 ft.)	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Collection Time	Other Lab Tests
		Sand with Some Clay/Silt (SW/SC): olive brown (2.5Y 4/3), moist, medium dense; fine to medium sand with trace very coarse sand.			8 12 15			MW-14 @25'	2:38 pm	PID: 0.0
		Groundwater first encountered @ ~29'.		▽						
30		Sand (SP): very dark gray (5Y 3/1), wet, medium dense; medium sand with hydrocarbon odor and staining.			6 9 11			MW-14 @30'	2:48 pm	PID: 0.0
35		Clayey Sand (SC): black (5Y 2.5/1), wet, dense to very dense; fine to medium sand, strong odor and staining.			14 25 41			MW-14 @35'	3:00 pm	PID: 0.0
40		Sand (SW): very dark gray (5Y 3/1), wet, very dense; coarse sand, hydrocarbon stains, no odor.			18 25 50/6			MW-14 @40'	3:05 pm	PID: 0.0
		Total Depth = 41.5' Groundwater first encountered @~29' WELL CONSTRUCTION: 4" Well set @ 38' 0-23' Blank Interval Sch. 40 PVC 23-38' Screen Interval (15') Sch 40 PVC (0.02 slot) Traffic Rated Vault Box 0-3' Concrete Seal (2 cubic feet) 3-5' Hydrated Bentonite Chips (.9 cubic feet) 5-18' Groutwell (6.0 cubic feet) 18-21'Hydrated Bentonite Chips (1.4 cubic feet) 21-41.5' Sand Pack (9.4 cubic feet).								

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-14

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.: **MW-15**	
Location: **Woodside Avenue, Santee**		Date: **2/19/08**	
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By: **DBS**	
Drilling Co.: **Test America**		Approved By:	

Depth to Water: 28.85 ft. Total Depth of Boring: 41.5 ft.

Depth (Feet)	Material Description	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Field and Laboratory Tests: Collection Time	Field and Laboratory Tests: Other Lab Tests
	Asphalt: 4".								
	FILL/ALLUVIUM (Qal) Sand (SP/SW): olive brown (2.5Y 4/4), moist, loose; fine to medium sand with trace fine.								
5	**ALLUVIUM (Qal)** Sand (SP/SW): olive brown (2.5 4/3), moist, medium dense; medium sand with few coarse sands, moderately graded.			5 9 7			MW-15 @5'	8:36 am	PID: 0.0
10	Sand (SW): olive brown (2.5Y 4/3), moist, medium dense; interbedded fine to very coarse sand.			5 7 11			MW-15 @10'	8:40 am	PID: 0.0
15	Sand (SW): mottled olive brown (2.5Y 4/3), moist, medium dense; interbedded fine sands with some coarse with iron oxide staining.			6 8 12			MW-15 @15'	8:44 am	PID: 0.0
20	Sandy Clay (CL): dark olive brown (2.5Y 2/3), moist, medium dense.			8 12 12			MW-15 @20'	8:48 am	PID: 0.0

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-15

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.: **MW-15**	
Location: **Woodside Avenue, Santee**		Date: **2/19/08**	
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By: **DBS**	
Drilling Co.: **Test America**		Approved By:	

Depth to Water: 28.85 ft. Total Depth of Boring: 41.5 ft.

Depth (Feet)	Lithology	Material Description	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Field and Laboratory Tests: Collection Time	Field and Laboratory Tests: Other Lab Tests
		Sand (SW).			10 4 4			MW-15 @25'	8:55 am	PID: 0.0
		Silty Sand (SM): very dark gray (5Y 3/1), moist, medium dense to loose; possible hydrocarbon staining.								
		Groundwater @ 28.85 (3:20).		▼						
30		Water first encountered @ ~30' (9:00)		▽						
		Very Coarse Sand (SW): dark gray (GLEY 1 4/N), wet, medium dense; strong odor, staining, fine to very coarse sands, well graded.			5 11 16			MW-15 @30'	9:01 am	PID: 32.1
35		Sand (SW): dark gray (5Y 4/1), wet, very dense; coarse sands; staining and odor.			18 29 21			MW-15 @35'	9:10 am	PID: 28.2
40					8 13 23			MW-15 @40'	9:18 am	PID: 26.7
		Total Depth = 41.5' Groundwater first encountered @~30'; static water @ 28.85' WELL CONSTRUCTION: 2" Well set @ 38.5' 0-23.5' Blank Interval Sch. 40 PVC 23.5-38.5' Screen Interval (15') Sch 40 PVC (0.02 slot) Traffic Rated Vault Box 0-3' Concrete Seal (1.5 cubic feet) 3-5' Hydrated Bentonite Chips (.65 cubic feet) 5-17' Groutwell (3.9 cubic feet) 17-21' Hydrated Bentonite Chips (1 cubic feet) 21-41.5' Sand Pack (6.8 cubic feet).								

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-16

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.:	**MW-16**
Location: **Woodside Avenue, Santee**		Date:	**2/19/08**
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By:	**DBS**
Drilling Co.: **Test America**		Approved By:	

Depth to Water: 29.1 ft. Total Depth of Boring: 41.5 ft.

Depth (Feet)	Lith-ology	Material Description	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Field and Laboratory Tests: Collection Time	Field and Laboratory Tests: Other Lab Tests
		A/C 8". Base 2". A/C.								
		ARTIFICIAL FILL (Qaf) Sand (SW): dark yellow brown (10YR 3/6), slightly moist, loose; fine to very coarse sand with some small gravels, A/C chunks.								
5		**ALLUVIUM (Qal)** Clayey Sand (SW/SC): dark brown (7.5YR 3/4), moist, loose; medium to very coarse sand with small gravels in clayey matrix.			2 3 5			MW-16 @5'	11:13 am	PID: 0.0
10		Silty Sand (SM): olive brown (2.5Y 4/4), moist, medium dense; fine sand with abundant silt, micaceous.			4 6 16			MW-16 @10'	11:18 am	PID: 0.0
15		Sand with Some Silt (SP/SM): olive brown (2.5Y 4/4), moist, medium dense; poorly graded fine sand with some silt.			6 8 8			MW-16 @15'	11:23 am	PID: 0.0
20		Sandy Silty Clay (CL): dark olive brown (2.5Y 3/3) very moist, loose to medium dense; silty clay with some fine sand.			2 8 6			MW-16 @20'	11:26 am	PID: 0.0

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/17/08

PLATE B-17

Petra Geotechnical, Inc.

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.:	**MW-16**
Location: **Woodside Avenue, Santee**		Date:	**2/19/08**
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By:	**DBS**
Drilling Co.: **Test America**		Approved By:	

Depth to Water: 29.1 ft. Total Depth of Boring: 41.5 ft.

Depth (Feet)	Lith-ology	Material Description	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Collection Time	Other Lab Tests
		Sand (SW): light brownish gray (2.5Y 6/2), moist, medium dense; coarse to very coarse sands with some lenticular fine and silty/clayey lenses.			6 7 7			MW-16 @25'	11:30 am	PID: 0.0
		Groundwater @ 29.10 (3:40).		▽						
30		Sand (SW): light gray brown (2.5Y 6/2), wet, medium dense; medium to very coarse sands, mottled, no odor.			4 9 10			MW-16 @30'	11:35 am	PID: 0.0
35		Sand (SW): light olive brown (2.5Y 5/3), wet, medium dense to dense; coarse to very coarse sands with some fine to medium sands and possible trace silt, well graded.			8 8 21			MW-16 @35'	11:40 am	PID: 0.0
40		Sand (SW): dark gray (5Y 4/1), wet, medium dense; well graded coarse sand, possible hydrocarbon staining.			6 8 9			MW-16 @40'	11:43 am	PID: 4.0
		Total Depth = 41.5' Groundwater first encountered @ 29.1' WELL CONSTRUCTION: 2" Well set @ 39' 0-24' Blank Interval Sch. 40 PVC 24-39' Screen Interval (15') Sch 40 PVC (0.02 slot) Traffic Rated Vault Box 0-3' Concrete Seal (1.5 cubic feet) 3-3.5' Hydrated Bentonite Chips (.16 cubic feet) 3.5-18.5' Groutwell (5.6 cubic feet) 18.5-21.5' Hydrated Bentonite Chips (1 cubic feet) 21.5-41.5' Sand Pack (7.4 cubic feet).								

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/17/08

PLATE B-18

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.:	**MW-17**
Location: **Woodside Avenue, Santee**		Date:	**2/19/08**
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By:	**DBS**
Drilling Co.: **Test America**		Approved By:	

Depth to Water: 35.65 ft. Total Depth of Boring: 45.5 ft.

Depth (Feet)	Lith-ology	Material Description	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Collection Time	Other Lab Tests
		A/C 2.5".								
		ALLUVIUM (Qal) Sand with Silt and Gravels (SW): olive brown (2.5Y 4/4); slightly moist, loose; fine to medium sand with some very coarse sand and some silt.								
		Clayey Sand to Silty Sand (SC/SM): dark brown (7.5YR 3/4 to 10YR 3/3); slightly moist, very loose.								
5		Sand with Some Clay (SW/SC); olive brown (2.5Y 4/4), slightly moist, loose; fine to very coarse sands with clayey matrix.			2 4 5			MW-17 @5'	2:05 pm	PID: 0.0
10		Sand (SW): light olive brown (2.5Y 5/4), slightly moist, medium dense; medium sand with coarse to very coarse.			5 7 7			MW-17 @10'	2:10 pm	PID: 0.0
15		Clayey Sand (SC): olive brown (2.5Y 4/3), moist, mediume dense; fine to medium sands with abundant clay (matrix), manganese staining.			2 5 7			MW-17 @15'	2:12 pm	PID: 0.0
20		**RESIDUAL SOIL** Clayey Sand (SW/SC): dark brown (7.5YR 3/4), moist, medium dense; residual soil/colluvium, well graded fine to medium sand with some coarse to very coarse sand and abundant clay.			5 9 14			MW-17 @20'	2:16 pm	PID: 0.0

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-19

Petra Geotechnical, Inc.

PETRA EXPLORATION LOG

Project: **Wigington Oil H19469-001**		Boring No.: **MW-17**	
Location: **Woodside Avenue, Santee**		Date: **2/19/08**	
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By: **DBS**	
Drilling Co.: **Test America**		Approved By:	

Depth to Water: 35.65 ft. Total Depth of Boring: 45.5 ft.

Depth (Feet)	Lith-ology	Material Description	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Collection Time	Other Lab Tests
		Clayey Sand to Sandy Clay (SC/CL): dark brown (7.5YR 3/4), moist dense; fine sand with clay matrix with some coarse sand, mottled.			12 15 20			MW-17 @25'	2:20 pm	PID: 0.0
30		Same as above.			13 16 21			MW-17 @30'	2:24 pm	PID: 0.0
35		Groundwater @ 35.65' (3:50). Clayey Sand (SC): very dark gray (2.5Y 3/1), very moist, dense; fine sands with abundant clay and some coarse, hydrocarbon odor and possible staining.		▼	10 20 25			MW-17 @35'	2:30 pm	PID: 12.8
		Groundwater first encountered @ 37.50' (3:30). Clayey Sand (SC): dark brown (7.5YR 3/4), moist to very moist, dense.		▽	14 18 20			MW-17 @38'	2:35 pm	PID: 0.0
40										
45		**BEDROCK - Weathered Granitics (Kgr)** Granite.			50/4			MW-17 @45'	2:38 pm	PID: 0.0
		Total Depth = 45.5' Groundwater first encountered @ 37.50'; static water @ 35.65' WELL CONSTRUCTION: 2" Well set @ 44.5' 0-24.5' Blank Interval Sch. 40 PVC 24.5-44.5' Screen Interval (15') Sch 40 PVC (0.02 slot)								

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

PLATE B-20

Project: **Wigington Oil H19469-001**		Boring No.: **MW-17**	
Location: **Woodside Avenue, Santee**		Date: **2/19/08**	
Job No.: **252-06**	Drilling Method: **Hollow-Stem Auger**	Logged By: **DBS**	
Drilling Co.: **Test America**		Approved By:	

Depth (Feet)	Lith-ology	Material Description Depth to Water: 35.65 ft. Total Depth of Boring: 45.5 ft.	Well Details	Water	Samples: Blows Per 6 in.	Samples: Run	Samples: Rec	Field and Laboratory Tests: Sample Name	Field and Laboratory Tests: Collection Time	Field and Laboratory Tests: Other Lab Tests
		Traffic Rated Vault Box 0-3' Concrete Seal (1.5 cubic feet) 3-4' Hydrated Bentonite Chips (.33 cubic feet) 4-18' Groutwell (4.6 cubic feet) 18-21' Hydrated Bentonite Chips (1 cubic foot) 21-45.5' Sand Pack (6.8 cubic feet).								

PLATE B-21

ENVIRONMENTAL LOG - V2 252-06 WIGINGTON.GPJ PETRA.GDT 9/15/08

APPENDIX C

MANIFESTS

PETRA

Manifest

TPST Soil Recyclers of CA
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transporter Truck #:	Facility #:	Given by TPST:	Load #
/ /			A07		

Generator and/or Consultant

Generator's Name and Billing Address: WIGINGTON PETROLEUM, INC. C/O WILLIAM L. FICHBECK ESQ. FICHBECK & OBERNDORFE 5464 GROSSMONT CENTER DR.; THRID FLOOR LA MESA, CA 91942	Generator's Phone #: Person to Contact: FAX#:	Generator's US EPA ID No. Customer Account Number with TPST:
Consultant's Name and Billing Address:	Consultant's Phone #: Person to Contact: FAX#:	Customer Account Number with TPST:
Generation Site (Transport from): *(name & address)* WIGINGTON OIL 11427 WOODSIDE AVE SANTEE, CA	Site Phone #: Person to Contact: FAX#:	BTEX Levels TPH Levels AVG. Levels
Designated Facility (Transport to): *(name & address)* TPST SOIL RECYCLERS OF CALIFORNIA 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001 Person to Contact: DELLENA JEFFREY FAX#: (760) 246-8004	Facility Permit Numbers
Transporter Name and Mailing Address: BELSHIRE 25971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 153957	Transporter's Phone #: (949) 460-5200 Person to Contact: LARRY MOOTHART FAX#: (949) 460-5210	Transporter's US EPA ID No.: CAR000183913 Transporter's DOT No.: 450847 Customer Account Number with TPST:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ❑ Organic ❑ Clay ❑ Other ❑	0 - 10% ❑ 10 - 20% ❑ 20% - over ❑	Gas ❑ Diesel ❑ Other ❑	26 cy	Soil			
Sand ❑ Organic ❑ Clay ❑ Other ❑	0 - 10% ❑ 10 - 20% ❑ 20% - over ❑	Gas ❑ Diesel ❑ Other ❑					

List any exception to items listed above: Scale Ticket#

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name:	Generator ❑	Consultant ☒	Signature and date:	Month	Day	Year
DOUG STEPHENSON	PETRA GEOTECH			05	15	08

Transporter

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year
Juliano Patel	Patel Juliano	5	15	08

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
D. JEFFREY/J. PROVANSAL	

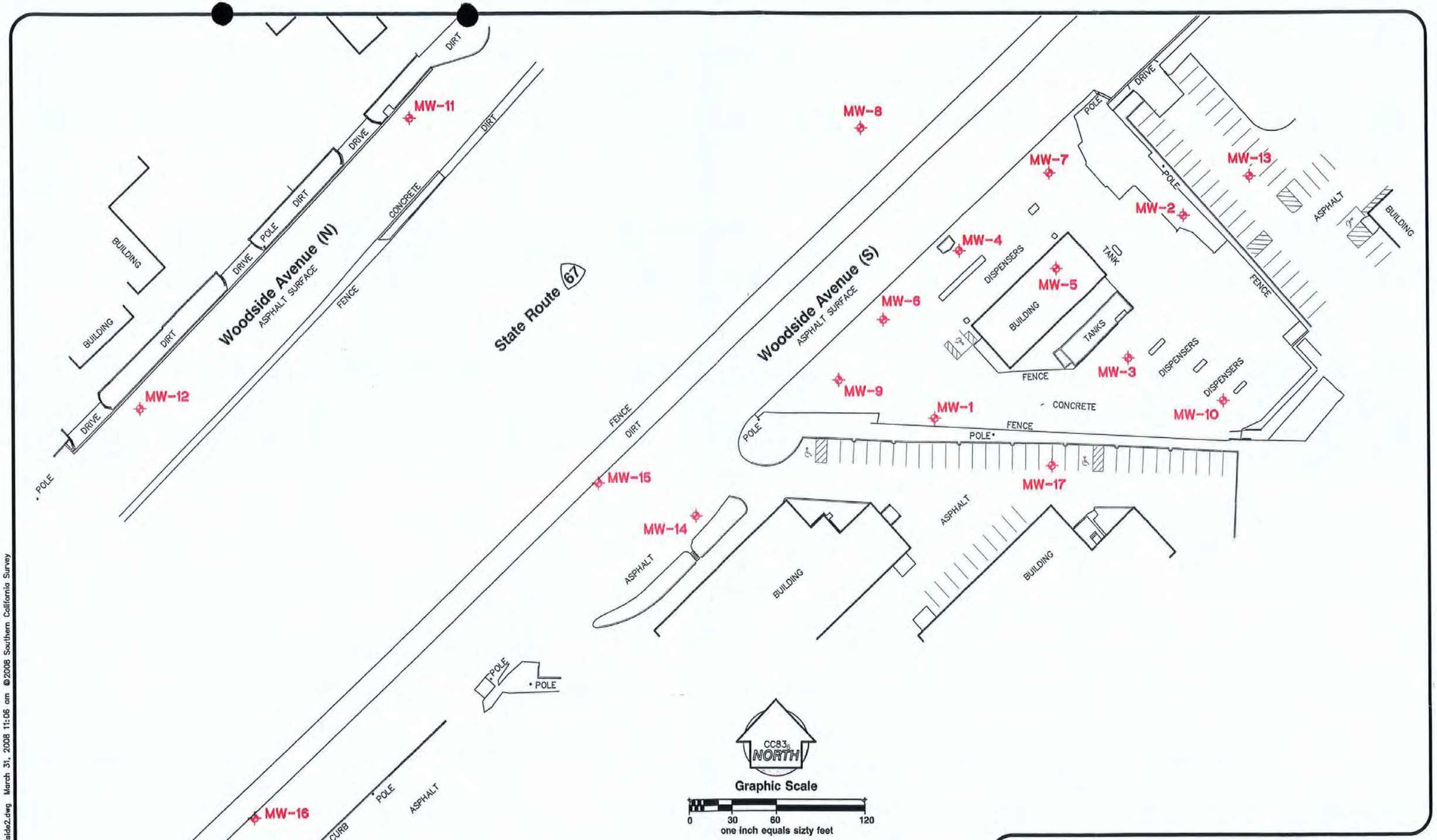
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GENERATOR/CONSULTANTS COPY

APPENDIX D

SURVEY DATA

PETRA



Woodside2.dwg March 31, 2008 11:06 am ©2008 Southern California Survey

Southern California Survey
a California Corporation
land · marine · aerial surveys
Chicago, Illinois • San Diego, California • Scottsdale, Arizona
(619) 563-2888 fax (858) 492-0950

PETRA

Sheet 1 of 3

Wigington Petroleum
11427 Woodside Avenue
Santee, California

MW-1
GRID N: 1889741.63
GRID E: 6346207.71
LATITUDE: 32°51'00.673"
LONGITUDE: 116°57'05.592"
362.84 S 4" PVC Casing
363.18 NE Rim

MW-2
GRID N: 1889874.93
GRID E: 6346377.76
LATITUDE: 32°51'01.003"
LONGITUDE: 116°57'03.609"
365.08 NW 4" PVC Casing
365.30 Rim

MW-3
GRID N: 1889781.20
GRID E: 6346340.03
LATITUDE: 32°51'00.073"
LONGITUDE: 116°57'04.044"
364.16 SW 4" PVC Casing
364.58 Rim

MW-4
GRID N: 1889851.62
GRID E: 6346225.01
LATITUDE: 32°51'00.762"
LONGITUDE: 116°57'05.398"
362.38 NW 4" PVC Casing
362.96 Rim

MW-5 (2002 data)
GRID N: 1889840.02
GRID E: 6346291.00
LATITUDE: 32°51'00.652"
LONGITUDE: 116°57'04.624"
363.42 Rim (Floor)

MW-6
GRID N: 1889806.24
GRID E: 6346173.11
LATITUDE: 32°51'00.310"
LONGITUDE: 116°57'06.003"
362.44 SE 4" PVC Casing
362.79 Rim

MW-7
GRID N: 1889903.04
GRID E: 6346286.51
LATITUDE: 32°51'01.275"
LONGITUDE: 116°57'04.681"
362.57 SW 4" PVC Casing
362.95 Rim

MW-8 (2002 data)
GRID N: 1889932.40
GRID E: 6346158.66
LATITUDE: 32°51'01.557"
LONGITUDE: 116°57'06.182"
364.51 4" PVC Casing
364.98 Rim

MW-9
GRID N: 1889766.75
GRID E: 6346142.50
LATITUDE: 32°50'59.917"
LONGITUDE: 116°57'06.359"
362.33 NW 4" PVC Casing
362.71 Rim

MW-10
GRID N: 1889753.15
GRID E: 6346403.83
LATITUDE: 32°50'59.800"
LONGITUDE: 116°57'03.294"
367.28 4" PVC Casing
367.73 Rim

MW-11
GRID N: 1889939.43
GRID E: 6345850.67
LATITUDE: 32°51'01.606"
LONGITUDE: 116°57'09.793"
362.48 2" PVC Casing
362.70 Rim

MW-12
GRID N: 1889748.87
GRID E: 6345667.65
LATITUDE: 32°50'59.709"
LONGITUDE: 116°57'11.923"
361.88 2" PVC Casing
362.32 Rim

MW-13
GRID N: 1889900.83
GRID E: 6346422.61
LATITUDE: 32°51'01.262"
LONGITUDE: 116°57'03.086"
366.91 2" PVC Casing
367.33 Rim

MW-14
GRID N: 1889678.09
GRID E: 6346044.47
LATITUDE: 32°50'59.033"
LONGITUDE: 116°57'07.501"
362.79 NW 4" PVC Casing
363.38 Rim

MW-15
GRID N: 1889699.69
GRID E: 6345977.68
LATITUDE: 32°50'59.243"
LONGITUDE: 116°57'08.285"
362.36 2" PVC Casing
362.71 Rim

MW-16
GRID N: 1889480.94
GRID E: 6345742.84
LATITUDE: 32°50'57.063"
LONGITUDE: 116°57'11.021"
362.48 2" PVC Casing
362.99 Rim

MW-17
GRID N: 1889710.71
GRID E: 6346286.97
LATITUDE: 32°50'59.372"
LONGITUDE: 116°57'04.661"
367.97 2" PVC Casing
368.32 Rim

Notes

Initial Field Survey performed on April 26, 2002, and updated on March 28, 2008. Well Id's per Petra Geotechnical Inc.

Survey Accuracies per Scope of Services letter dated March 11, 2008.

Horizontal Coordinates are California Coordinates Zone 6, NAD83, 1991.35 epoch.

All well rim and casing elevations are located on the northerly side, and are painted black, unless otherwise noted.

Selected planimetric features located per instruction by Petra Geotechnical Inc. personnel, additional utilities and/or planimetric features do exist.

Measurements shown are decimal feet and degrees, minutes, seconds of Latitude/Longitude (see enclosed spreadsheet for decimal degrees).

Benchmark

RUIS Benchmark No. ROS11252 PT#2160 Standard Street Survey centerline monument at the intersection of Woodside Avenue and Gauche Alley

Elevation = 362.39 NGVD29 Datum (add 2.00' for NAVD88 per VERTCON)

LICENSED LAND SURVEYOR
John E. Hank
L.S. 6165
expires 3/31/10
STATE OF CALIFORNIA

March 28, 2008
John E. Hank P.L.S. date
Professional Land Surveyor
License No. 6165 Expires March 31, 2010

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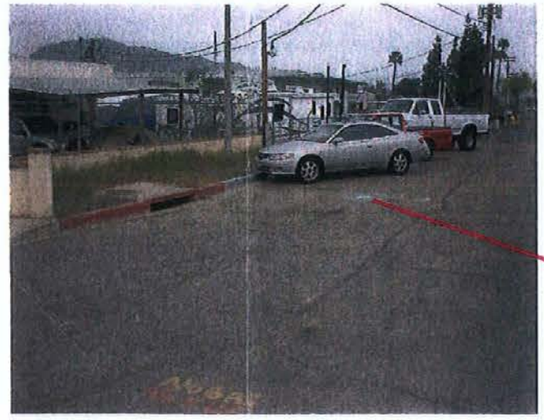
PETRA

Sheet 2 of 3
Wigington Petroleum
11427 Woodside Avenue
Santee, California

Woodside2.dwg March 31, 2008 11:06 am ©2008 Southern California Survey



















Woodside2.dwg March 31, 2008 11:06 am ©2008 Southern California Survey

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Sheet 3 of 3
Wigington Petroleum
11427 Woodside Avenue
Santee, California

APPENDIX E

GROUNDWATER SAMPLING FIELD SHEETS

PETRA

Site Name: EL CAPITAN OIL
Project Number: 252-06
Site Address:

Petra Geotechnical
Sampling Data

252-06

Date: 2/8/08
Well ID: MW-9
Sampler: DAS

Purge Data

	Time	Temp.	E.C.	pH	DTW	Gallons	Notes / Comments
Start:					28.65		
1.0 BHV	2:40	21.9	1723	7.55	29.0	17.0	
1.5 BHV	2:50	21.9	1698	7.55	28.85	8.5	
2.0 BHV							
2.5 BHV							
3.0 BHV							
Stop:							

Purge Method:

(Bail) / Pump / Vac

Total Gals. Purged: 25.5

Total Vols. Purged: 1.5

Sample Collection Time: 3:10

Sample Collection Depth: 29.70

Well Data

Bore OD:	10"
Casing ID:	4"
Well TD:	39'
DTW:	28.65
Ft./Water:	10.35
80% Recovery:	28.72
Factor:	1.63
1 Vol:	17.0
3 Vol:	

Recharge Info: F / S

Fast or Slow Recovering Well

Percent Recovery:

(MD - IWD) x 0.80 then subtract result from MD

PR : Percent recovery
IWD : Initial Water depth
MD : Maximum drawdown

Special Notes:

Fast well - 80% recovered in less than 2 hrs.
- Remove 1 bhv, conduct P.H., cond., and temp.,
- Remove 1/2 bhv, check parameters, if results vary by <10% purging is adequate
- Collect sample when well recovers 80%

Slow well - recovers less than 80% in 2 hrs.
- Remove 1 bhv
- Collect sample after 2 hrs

Legend:

WD = Well depth
TD = Total depth
BHV = Borehole Volume
BD = Borehole diameter
OD = Outside diameter

Standard borehole volume constants for 0.3 filter pack porosity:

Casing/Bore diameter:	Bore Vol. Factors:	Casing Vol. Factors:
2"/8"	0.88	0.17 Gal/Ft.
4"/8"	1.19	0.66 Gal/Ft.
4"/10"	1.63	0.66 Gal/Ft.
6"/10"	2.16	1.5 Gal/Ft.
6"/12"	3.07	1.5 Gal/Ft.

Petra Geotechnical
12225 World Trade Drive, Suite P
San Diego, CA 92128

Site Name: EL CAPITAN OIL
Project Number: 252-06
Site Address:

Petra Geotechnical
Sampling Data

Date: 2/8/08
Well ID: MW-10
Sampler: DAS

Purge Data

	Time	Temp.	E.C.	pH	DTW	Gallons
Start:					32.35	
1.0 BHV	3:40	22.8	2.3mS	7.86	34.8	12.5
1.5 BHV	3:50	22.8	2.3mS	7.52	34.58	7.0
2.0 BHV						
2.5 BHV						
3.0 BHV						
Stop:						

Notes / Comments:

Purge Method:

(Bail) / Pump / Vac

Total Gals. Purged: 19.5

Total Vols. Purged: 1.5

Sample Collection Time: 3:55

Sample Collection Depth: 32.6

Well Data

Bore OD:	10"
Casing ID:	4"
Well TD:	40'
DTW:	32.35
Ft./Water:	7.65
80% Recovery:	32.84
Factor:	1.63
1 Vol:	12.5
3 Vol:	

Recharge Info: (F) / S

Fast or Slow Recovering Well

Percent Recovery:

(MD - IWD) x 0.80 then subtract result from MD

PR : Percent recovery
IWD : Initial Water depth
MD : Maximum drawdown

Special Notes:

Fast well - 80% recovered in less than 2 hrs.
- Remove 1 bhv, conduct P.H., cond., and temp.,
- Remove 1/2 bhv, check parameters, if results vary by <10% purging is adequate
- Collect sample when well recovers 80%

Slow well - recovers less than 80% in 2 hrs.
- Remove 1 bhv
- Collect sample after 2 hrs

Legend:

WD = Well depth
TD = Total depth
BHV = Borehole Volume
BD = Borehole diameter
OD = Outside diameter

Standard borehole volume constants for 0.3 filter pack porosity:

Casing/Bore diameter:	Bore Vol. Factors:	Casing Vol. Factors:
2"/8"	0.88	0.17 Gal/Ft.
4"/8"	1.19	0.66 Gal/Ft.
4"/10"	1.63	0.66 Gal/Ft.
6"/10"	2.16	1.5 Gal/Ft.
6"/12"	3.07	1.5 Gal/Ft.

Petra Geotechnical
12225 World Trade Drive, Suite P
San Diego, CA 92128

Site Name: WIGINGTON OIL/EL CAP OIL
Project Number: 252-06
Site Address: WOODSIDE AVE, SANTEE

Petra Geotechnical
Sampling Data

Date: 2/12/08
Well ID: MW-11
Sampler: DBS

Purge Data	Time	Temp	E.C.	pH	DTW	Gallons	Notes / Comments
Start:							
1.0 BHV	3:00	23.6	1077	7.13	29.05	8.0	Hydrocarbon odor
1.5 BHV	3:03	22.6	1098	7.14	29.05	4.0	
2.0 BHV							
2.5 BHV							
3.0 BHV							
Stop:							

Purge Method:
(Bail) / Pump / Vac

Total Gals. Purged: 12.0
Total Vols. Purged: 1.5
Sample Collection Time: 3:25
Sample Collection Depth: 29.03

Well Data	
Bore OD:	8"
Casing ID:	2"
Well TD:	38'
DTW:	29.03
Ft./Water:	8.97
80% Recovery:	
Factor:	.88
1 Vol:	7.9
3 Vol:	

Recharge Info: (F) / S
Fast or Slow Recovering Well

Percent Recovery:
(MD - IWD) x 0.80 then subtract result from MD

PR : Percent recovery
IWD : Initial Water depth
MD : Maximum drawdown

Special Notes:

Fast well - 80% recovered in less than 2 hrs.
- Remove 1 bhv, conduct P.H., cond., and temp.,
- Remove 1/2 bhv, check parameters, if results vary by <10% purging is adequate
- Collect sample when well recovers 80%

Slow well - recovers less than 80% in 2 hrs.
- Remove 1 bhv
- Collect sample after 2 hrs

Legend:

WD = Well depth
TD = Total depth
BHV = Borehole Volume
BD = Borehole diameter
OD = Outside diameter

Standard borehole volume constants for 0.3 filter pack porosity:

Casing/Bore diameter:	Bore Vol. Factors:	Casing Vol. Factors:
2"/8"	0.88	0.17 Gal/Ft.
4"/8"	1.19	0.66 Gal/Ft.
4"/10"	1.63	0.66 Gal/Ft.
6"/10"	2.16	1.5 Gal/Ft.
6"/12"	3.07	1.5 Gal/Ft.

Petra Geotechnical
12225 World Trade Drive, Suite P
San Diego, CA 92128

Site Name: WIGINGTON OIL / EL CAP OIL
Project Number: 252-06
Site Address: WOODSIDE AVE, SANTEE

Petra Geotechnical
Sampling Data

Date: 2/12/08
Well ID: MW-12
Sampler: DBS

Purge Data

	Time	Temp	E.C.	pH	DTW	Gallons	Notes / Comments
Start:							
1.0 BHV	1:55	22.1	1129	7.16	28.59	9.5	
1.5 BHV	2:05	22.5	1132	6.93	28.59	5.0	
2.0 BHV							
2.5 BHV							
3.0 BHV							
Stop:							

Purge Method:

(Bail) / Pump / Vac

Total Gals. Purged: 14.5

Total Vols. Purged: 1.5

Sample Collection Time: 2:15

Sample Collection Depth: 28.57'

Well Data

Bore OD:	8"
Casing ID:	2"
Well TD:	39'
DTW:	28.57
Ft./Water:	10.43
80% Recovery:	
Factor:	.88
1 Vol:	9.2
3 Vol:	

Recharge Info: (F) S
Fast or Slow Recovering Well

Percent Recovery:
(MD - IWD) x 0.80 then subtract result from MD

PR : Percent recovery
IWD : Initial Water depth
MD : Maximum drawdown

Special Notes:

Fast well - 80% recovered in less than 2 hrs.
- Remove 1 bhv, conduct P.H., cond., and temp.,
- Remove 1/2 bhv, check parameters, if results vary by <10% purging is adequate
- Collect sample when well recovers 80%

Slow well - recovers less than 80% in 2 hrs.
- Remove 1 bhv
- Collect sample after 2 hrs

Legend:

WD = Well depth
TD = Total depth
BHV = Borehole Volume
BD = Borehole diameter
OD = Outside diameter

Standard borehole volume constants for 0.3 filter pack porosity:

Casing/Bore diameter:	Bore Vol. Factors:	Casing Vol. Factors:
2"/8"	0.88	0.17 Gal/Ft.
4"/8"	1.19	0.66 Gal/Ft.
4"/10"	1.63	0.66 Gal/Ft.
6"/10"	2.16	1.5 Gal/Ft.
6"/12"	3.07	1.5 Gal/Ft.

Petra Geotechnical
12225 World Trade Drive, Suite P
San Diego, CA 92128

Site Name: WIGINGTON OIL/EL CAP OIL
Project Number: 252-06
Site Address: WOODSIDE AVE, SANTEE

Petra Geotechnical
Sampling Data

Date: 2/22/08
Well ID: MW-13
Sampler: DBS

Purge Data	Time	Temp	E.C.	pH	DTW	Gallons	Notes / Comments
Start:							
1.0 BHV	10:33	22.4	2.61	7.80	42.61	11.25	
1.5 BHV							
2.0 BHV							
2.5 BHV							
3.0 BHV							
Stop:							

Purge Method:

(Bail) / Pump / Vac

Total Gals. Purged: 11.25

Total Vols. Purged: 1.0

Sample Collection Time: 12:40

Sample Collection Depth: 38.78

Well Data	
Bore OD:	8"
Casing ID:	2"
Well TD:	45
DTW:	32.26
Ft./Water:	12.74
80% Recovery:	34.33
Factor:	.88
1 Vol:	11.2
3 Vol:	

Recharge Info: F / S

Fast or Slow Recovering Well

Percent Recovery:

(MD - IWD) x 0.80 then subtract result from MD

PR : Percent recovery
IWD : Initial Water depth
MD : Maximum drawdown

Special Notes:

Fast well - 80% recovered in less than 2 hrs.
- Remove 1 bhv, conduct P.H., cond., and temp.,
- Remove 1/2 bhv, check parameters, if results vary by <10% purging is adequate
- Collect sample when well recovers 80%

Slow well - recovers less than 80% in 2 hrs.
- Remove 1 bhv.
- Collect sample after 2 hrs

Legend:

WD = Well depth
TD = Total depth
BHV = Borehole Volume
BD = Borehole diameter
OD = Outside diameter

Standard borehole volume constants for 0.3 filter pack porosity:

Casing/Bore diameter:	Bore Vol. Factors:	Casing Vol. Factors:
2"/8"	0.88	0.17 Gal/Ft.
4"/8"	1.19	0.66 Gal/Ft.
4"/10"	1.63	0.66 Gal/Ft.
6"/10"	2.16	1.5 Gal/Ft.
6"/12"	3.07	1.5 Gal/Ft.

Petra Geotechnical
12225 World Trade Drive, Suite P
San Diego, CA 92128

Site Name: WIGINGTON OIL/EL CAP OIL
Project Number: 252-06
Site Address: WOODSIDE AVE, SANTEE

Petra Geotechnical
Sampling Data

Date: 2/22/08
Well ID: MW-14
Sampler: DBS

Purge Data	Time	Temp	E.C.	pH	DTW	Gallons	Notes / Comments
Start:							
1.0 BHV	9:27	21 1	1667	7.22	29.15	14 5	
1.5 BHV	9 37	21 3	1548	7.09	30.36	7.5	
2.0 BHV							
2.5 BHV							
3.0 BHV							
Stop:							

Purge Method:

(Bail) / Pump / Vac

Total Gals. Purged: 22.0

Total Vols. Purged: 1.5

Sample Collection Time: 9:50

Sample Collection Depth: 29.29

Well Data	
Bore OD:	10"
Casing ID:	4"
Well TD:	38
DTW:	29.29
Ft./Water:	8.71
80% Recovery:	29.50
Factor:	1.63
1 Vol:	14.2
3 Vol:	

Recharge Info: (F) / S

Fast or Slow Recovering Well

Percent Recovery:

(MD - IWD) x 0.80 then subtract result from MD

PR : Percent recovery
IWD : Initial Water depth
MD : Maximum drawdown

Special Notes:

Fast well - 80% recovered in less than 2 hrs.
- Remove 1 bhv, conduct P.H., cond., and temp.,
- Remove 1/2 bhv, check parameters, if results vary by <10% purging is adequate
- Collect sample when well recovers 80%

Slow well - recovers less than 80% in 2 hrs.
- Remove 1 bhv
- Collect sample after 2 hrs

Legend:

WD = Well depth
TD = Total depth
BHV = Borehole Volume
BD = Borehole diameter
OD = Outside diameter

Standard borehole volume constants for 0.3 filter pack porosity:

Casing/Bore diameter:	Bore Vol. Factors:	Casing Vol. Factors:
2"/8"	0.88	0.17 Gal/Ft.
4"/8"	1.19	0.66 Gal/Ft.
4"/10"	1.63	0.66 Gal/Ft.
6"/10"	2.16	1.5 Gal/Ft.
6"/12"	3.07	1.5 Gal/Ft.

Petra Geotechnical
12225 World Trade Drive, Suite P
San Diego, CA 92128

Site Name: WIGINGTON OIL/EL CAP OIL
Project Number: 252-06
Site Address: WOODSIDE AVE, SANTEE

Petra Geotechnical
Sampling Data

Date: 2/22/06
Well ID: MW-15
Sampler: DBS

Purge Data

	Time	Temp	E.C.	pH	DTW	Gallons	Notes / Comments
Start:							
1.0 BHV	1115	21.4	1413	7.30	28.93	8.5	
1.5 BHV	11:31	21.1	1399	7.12	28.92	4.5	
2.0 BHV							
2.5 BHV							
3.0 BHV							
Stop:							

Purge Method:

(Bail) / Pump / Vac

Total Gals. Purged: 13.0

Total Vols. Purged: 1.5

Sample Collection Time: 11:45

Sample Collection Depth: 28.90

Well Data

Bore OD:	8"
Casing ID:	2"
Well TD:	38.5
DTW:	28.90
Ft./Water:	9.6
80% Recovery:	
Factor:	.88
1 Vol:	8.4
3 Vol:	

Recharge Info: (F) / S

Fast or Slow Recovering Well

Percent Recovery:

(MD - IWD) x 0.80 then subtract result from MD

PR : Percent recovery
IWD : Initial Water depth
MD : Maximum drawdown

Special Notes:

Fast well - 80% recovered in less than 2 hrs.
- Remove 1 bhv, conduct P.H., cond., and temp.,
- Remove 1/2 bhv, check parameters, if results vary by <10% purging is adequate
- Collect sample when well recovers 80%

Slow well - recovers less than 80% in 2 hrs.
- Remove 1 bhv
- Collect sample after 2 hrs

Legend:

WD = Well depth
TD = Total depth
BHV = Borehole Volume
BD = Borehole diameter
OD = Outside diameter

Standard borehole volume constants for 0.3 filter pack porosity:

Casing/Bore diameter:	Bore Vol. Factors:	Casing Vol. Factors:
2"/8"	0.88	0.17 Gal/Ft.
4"/8"	1.19	0.66 Gal/Ft.
4"/10"	1.63	0.66 Gal/Ft.
6"/10"	2.16	1.5 Gal/Ft.
6"/12"	3.07	1.5 Gal/Ft.

Petra Geotechnical
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San Diego, CA 92128

Site Name: WIGINGTON OIL/EL CAP OIL
Project Number: 252-06
Site Address: WOODSIDE AVE, SANTEE

Petra Geotechnical
Sampling Data

Date: 2/26/08
Well ID: MW-16
Sampler: PBS

Purge Data

	Time	Temp	E.C.	pH	DTW	Gallons	Notes / Comments
Start:					28.93		
1.0 BHV	2:35	20.8	1158	7.23	29.00	9.0	possible odor.
1.5 BHV	2:48	20.3	1163	7.14	28.95	4.5	
2.0 BHV							
2.5 BHV							
3.0 BHV							
Stop:							

Purge Method:

(Bail) / Pump / Vac

Total Gals. Purged: 13.5

Total Vols. Purged: 1.5

Sample Collection Time: 2:55

Sample Collection Depth: 28.93

Well Data

Bore OD:	8"
Casing ID:	2"
Well TD:	39'
DTW:	28.93
Ft./Water:	10.07
80% Recovery:	
Factor:	.88
1 Vol:	8.9
3 Vol:	

Recharge Info: (F) S

Fast or Slow Recovering Well

Percent Recovery:

(MD - IWD) x 0.80 then subtract result from MD

PR : Percent recovery
IWD : Initial Water depth
MD : Maximum drawdown

Special Notes:

Fast well - 80% recovered in less than 2 hrs.
- Remove 1 bhv, conduct P.H., cond., and temp.,
- Remove 1/2 bhv, check parameters, if results vary by <10% purging is adequate
- Collect sample when well recovers 80%

Slow well - recovers less than 80% in 2 hrs.
- Remove 1 bhv
- Collect sample after 2 hrs

Legend:

WD = Well depth
TD = Total depth
BHV = Borehole Volume
BD = Borehole diameter
OD = Outside diameter

Standard borehole volume constants for 0.3 filter pack porosity:

Casing/Bore diameter:	Bore Vol. Factors:	Casing Vol. Factors:
2"/8"	0.88	0.17 Gal/Ft.
4"/8"	1.19	0.66 Gal/Ft.
4"/10"	1.63	0.66 Gal/Ft.
6"/10"	2.16	1.5 Gal/Ft.
6"/12"	3.07	1.5 Gal/Ft.

Petra Geotechnical
12225 World Trade Drive, Suite P
San Diego, CA 92128

Site Name: WIGINGTON OIL/EL CAP OIL
Project Number: 252-06
Site Address: WOODSIDE AVE, SANTEE

Petra Geotechnical
Sampling Data

Date: 2/26/08
Well ID: MW-17
Sampler: DBS

Purge Data	Time	Temp.	E.C.	pH	DTW	Gallons	Notes / Comments
Start:							
1.0 BHV	3:44	22.8	1796	7.07	39.39	8.6	hydrocarbon odor, sheen
1.5 BHV	3:58	22.3	1791	7.03	39.80	4.5	
2.0 BHV							
2.5 BHV							
3.0 BHV							
Stop:							

Purge Method:

(Bail) / Pump / Vac

Total Gals. Purged: 13.1

Total Vols. Purged: 1.5

Sample Collection Time: 4:15

Sample Collection Depth: 35.70

Well Data	
Bore OD:	8"
Casing ID:	2"
Well TD:	44.5'
DTW:	34.68
Ft./Water:	9.82
80% Recovery:	35.70
Factor:	.88
1 Vol:	8.6
3 Vol:	

Recharge Info: (F) / S
Fast or Slow Recovering Well

Percent Recovery:
(MD - IWD) x 0.80 then subtract result from MD

PR : Percent recovery
IWD : Initial Water depth
MD : Maximum drawdown

Special Notes:

Fast well - 80% recovered in less than 2 hrs.
- Remove 1 bhv, conduct P.H., cond., and temp.,
- Remove 1/2 bhv, check parameters, if results vary by <10% purging is adequate
- Collect sample when well recovers 80%

Slow well - recovers less than 80% in 2 hrs.
- Remove 1 bhv
- Collect sample after 2 hrs

Legend:

WD = Well depth
TD = Total depth
BHV = Borehole Volume
BD = Borehole diameter
OD = Outside diameter

Standard borehole volume constants for 0.3 filter pack porosity:

Casing/Bore diameter:	Bore Vol. Factors:	Casing Vol. Factors:
2"/8"	0.88	0.17 Gal/Ft.
4"/8"	1.19	0.66 Gal/Ft.
4"/10"	1.63	0.66 Gal/Ft.
6"/10"	2.16	1.5 Gal/Ft.
6"/12"	3.07	1.5 Gal/Ft.

Petra Geotechnical
12225 World Trade Drive, Suite P
San Diego, CA 92128

APPENDIX F

SOIL SAMPLE LABORATORY REPORTS

PETRA

MOBILE GEOCHEMISTRY

H&P

13 February 2008

Mr. Jim Olbinski
Petra Geotechnical
12225 World Trade Drive, Suite P
San Diego, CA 92128

RE: PG020708-11

Enclosed are the results of analyses for samples received by the laboratory on 07-Feb-08 . If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595.

2470 Impala Drive, Carlsbad, California 92010 | 760.804.9678 — Fax 760.804.9159
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MOBILE GEOCHEMISTRY

H&P

Petra Geotechnical	Project: PG020708-11	
12225 World Trade Drive, Suite P	Project Number: 252-06 / Woodside Ave.	Reported:
San Diego, CA 92128	Project Manager: Mr. Jim Olbinski	13-Feb-08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9-5	E802025-01	Soil	04-Feb-08	07-Feb-08
MW-9-10	E802025-02	Soil	04-Feb-08	07-Feb-08
MW-9-15	E802025-03	Soil	04-Feb-08	07-Feb-08
MW-9-20	E802025-04	Soil	04-Feb-08	07-Feb-08
MW-9-25	E802025-05	Soil	04-Feb-08	07-Feb-08
MW-9-30	E802025-06	Soil	04-Feb-08	07-Feb-08
MW-9-35	E802025-07	Soil	04-Feb-08	07-Feb-08
MW-9-39	E802025-08	Soil	04-Feb-08	07-Feb-08
MW-10-5	E802025-09	Soil	04-Feb-08	07-Feb-08
MW-10-10	E802025-10	Soil	04-Feb-08	07-Feb-08
MW-10-15	E802025-11	Soil	04-Feb-08	07-Feb-08
MW-10-20	E802025-12	Soil	04-Feb-08	07-Feb-08
MW-10-25	E802025-13	Soil	04-Feb-08	07-Feb-08
MW-10-30	E802025-14	Soil	04-Feb-08	07-Feb-08
MW-10-35	E802025-15	Soil	05-Feb-08	07-Feb-08
MW-10-40	E802025-16	Soil	05-Feb-08	07-Feb-08
MW-10-43	E802025-17	Soil	05-Feb-08	07-Feb-08

MOBILE GEOCHEMISTRY

H&P

Petra Geotechnical	Project: PG020708-11	
12225 World Trade Drive, Suite P	Project Number: 252-06 / Woodside Ave.	Reported:
San Diego, CA 92128	Project Manager: Mr. Jim Olbinski	13-Feb-08

Volatile Organic Compounds by EPA Method 8260B/5030

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
MW-9-5 (E802025-01) Soil Sampled: 04-Feb-08 Received: 07-Feb-08									
Methyl tert-butyl ether	ND	5.0	ug/kg	0.5	EB81104	07-Feb-08	07-Feb-08	EPA 8260B	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*115 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*105 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*		*65-135*		"	"	"	
MW-9-10 (E802025-02) Soil Sampled: 04-Feb-08 Received: 07-Feb-08									
Methyl tert-butyl ether	ND	5.0	ug/kg	0.5	EB81104	07-Feb-08	07-Feb-08	EPA 8260B	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*106 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.8 %*		*65-135*		"	"	"	

MOBILE GEOCHEMISTRY

H&P

Petra Geotechnical	Project: PG020708-11	
12225 World Trade Drive, Suite P	Project Number: 252-06 / Woodside Ave.	Reported:
San Diego, CA 92128	Project Manager: Mr. Jim Olbinski	13-Feb-08

Volatile Organic Compounds by EPA Method 8260B/5030

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
MW-9-15 (E802025-03) Soil Sampled: 04-Feb-08 Received: 07-Feb-08									
Methyl tert-butyl ether	ND	5.0	ug/kg	0.5	EB81104	07-Feb-08	07-Feb-08	EPA 8260B	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*102 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.5 %*		*65-135*		"	"	"	
MW-9-20 (E802025-04) Soil Sampled: 04-Feb-08 Received: 07-Feb-08									
Methyl tert-butyl ether	22	5.0	ug/kg	0.5	EB81104	07-Feb-08	07-Feb-08	EPA 8260B	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	76	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	56	5.0	"	"	"	"	"	"	
m,p-Xylene	64	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.1 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*105 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.6 %*		*65-135*		"	"	"	

MOBILE GEOCHEMISTRY

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Petra Geotechnical	Project: PG020708-11	
12225 World Trade Drive, Suite P	Project Number: 252-06 / Woodside Ave.	Reported:
San Diego, CA 92128	Project Manager: Mr. Jim Olbinski	13-Feb-08

Volatile Organic Compounds by EPA Method 8260B/5030

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
MW-9-25 (E802025-05) Soil Sampled: 04-Feb-08 Received: 07-Feb-08									
Methyl tert-butyl ether	7.4	5.0	ug/kg	0.5	EB81104	07-Feb-08	07-Feb-08	EPA 8260B	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	21	5.0	"	"	"	"	"	"	
m,p-Xylene	70	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.3 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*106 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.6 %*		*65-135*		"	"	"	
MW-9-30 (E802025-06) Soil Sampled: 04-Feb-08 Received: 07-Feb-08									
Methyl tert-butyl ether	120	5.0	ug/kg	0.5	EB81104	07-Feb-08	07-Feb-08	EPA 8260B	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	900	5.0	"	"	"	"	"	"	
Toluene	1700	50	"	5	"	"	08-Feb-08	"	
Ethylbenzene	320	5.0	"	0.5	"	"	07-Feb-08	"	
m,p-Xylene	1200	10	"	"	"	"	"	"	
o-Xylene	520	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*109 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.3 %*		*65-135*		"	"	"	

MOBILE GEOCHEMISTRY

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Petra Geotechnical	Project: PG020708-11	
12225 World Trade Drive, Suite P	Project Number: 252-06 / Woodside Ave.	Reported:
San Diego, CA 92128	Project Manager: Mr. Jim Olbinski	13-Feb-08

Volatile Organic Compounds by EPA Method 8260B/5030

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
MW-9-35 (E802025-07) Soil Sampled: 04-Feb-08 Received: 07-Feb-08									
Methyl tert-butyl ether	ND	5.0	ug/kg	0.5	EB81104	07-Feb-08	07-Feb-08	EPA 8260B	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	15	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.1 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*101 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.5 %*		*65-135*		"	"	"	
MW-9-39 (E802025-08) Soil Sampled: 04-Feb-08 Received: 07-Feb-08									
Methyl tert-butyl ether	ND	5.0	ug/kg	0.5	EB80805	08-Feb-08	08-Feb-08	EPA 8260B	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	11	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*101 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.3 %*		*65-135*		"	"	"	

MOBILE GEOCHEMISTRY

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Petra Geotechnical	Project: PG020708-11	
12225 World Trade Drive, Suite P	Project Number: 252-06 / Woodside Ave.	Reported:
San Diego, CA 92128	Project Manager: Mr. Jim Olbinski	13-Feb-08

Volatile Organic Compounds by EPA Method 8260B/5030

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
MW-10-5 (E802025-09) Soil Sampled: 04-Feb-08 Received: 07-Feb-08									
Methyl tert-butyl ether	ND	5.0	ug/kg	0.5	EB80805	08-Feb-08	08-Feb-08	EPA 8260B	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*96.3 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.9 %*		*65-135*		"	"	"	
MW-10-10 (E802025-10) Soil Sampled: 04-Feb-08 Received: 07-Feb-08									
Methyl tert-butyl ether	ND	5.0	ug/kg	0.5	EB80805	08-Feb-08	08-Feb-08	EPA 8260B	
Di-isopropyl ether	ND	5.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	25	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*65-135*		"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*52-149*		"	"	"	
Surrogate: Toluene-d8		*99.2 %*		*65-135*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*		*65-135*		"	"	"	