

**Appendix F:**  
**Environmental Site Assessment**





**PHASE I  
ENVIRONMENTAL  
SITE ASSESSMENT**

August 18, 1997

Napa Oaks  
Napa, California

Prepared For:  
Mr. Wayne Policz  
Davidon Homes



ACC Project No. 97-6438-001.00

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**PHASE I ENVIRONMENTAL SITE ASSESSMENT**  
**Napa Oaks**  
**Napa, California**

*ACC Project No. 97-6438-001.00*

Prepared for:

Mr. Wayne Policz  
Davidon Homes  
1600 South Main Street, Suite 150  
Walnut Creek, CA 94596-5394

August 18, 1997

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## EXECUTIVE SUMMARY

Consultant: ACC Environmental Consultants, Inc. (ACC)

Subject Property: Napa Oaks, Old Sonoma Road, Napa, California

Client: Davidon Homes

Location: The subject property is located in an agricultural/residential area, south of Old Sonoma Road and west of Casswall Street, Napa, California (Figures 1 and 2).

Current Use: The subject property currently consists of vacant, undeveloped grazing land and developed residential and farmland.

### Site

Characteristics: The subject property is approximately 81 acres (Photographs 1 through 4 and Figure 2).

### Vicinity

Characteristics: The property and surrounding area are zoned RL6, low density residential (6 residential units per acre), that has been noted to have hillside and erosion potential, by the City of Napa Planning Department. The surrounding area includes residential and agricultural including farms and vineyards.

Purpose: This environmental site assessment was performed to provide a record of the site conditions and to evaluate what, if any, environmental issues exist on this site.

### Recognized Environmental Conditions:

This assessment has revealed no evidence of Recognized Environmental Conditions with the following exceptions:

During site reconnaissance, ACC observed a groundwater well located on the eastern portion of the property (Photograph 14). No information regarding the well was found during file review. Conversations with personnel from McLean and Williams, Inc., well and pump contractor for the well, indicated that the well is used for water for livestock, and no other information is known regarding the well. Based on conversations with Inspector Sheldon Sapoznik of the Napa County Department of Environmental Health (NCDEM), if the owner wants to keep the well, then a letter stating the well's purpose must be submitted to NCDEM. If the well is to be used by 25 or more persons for more than 60 days per year, it is considered a public water supply. A public water supply therefore must be permitted for annual water supply and tested and conditioned prior to use.

If the well is not to be used and is left abandoned (not used for more than one year), it is required to be destroyed properly in accordance with the State of California, Department of Water Resources guidelines as directed by the Safe Drinking Water Act, Chapter 7, Part 1, Division 5, Health and Safety Code. A permit is required through NCDEM for well destruction.

During the site reconnaissance, ACC observed a pole-mounted electrical transformer located adjacent to the existing house on Parcel 025 of the subject property, and several pole-mounted electrical transformers located along Old Sonoma Road, adjacent to the subject property to the north. The pole-vaulted transformers are being assessed by PG&E for PCBs in the area of Napa near the subject property. No information regarding the transformers located on the subject property has been obtained. ACC did not observe any leaking or staining associated with the transformers.

Within 0.5 mile of the subject property, there is one site with a documented release of hazardous substances and/or petroleum products. There is no documented evidence that constituent plumes originating from this site have migrated to the subject property.

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### APPENDICES

- A: Scope of Work
- B: ERIIS Site Assessment Report

## 1.0 INTRODUCTION

On behalf of Davidon Homes (hereinafter referred to as Client), ACC Environmental Consultants, Inc., (ACC) performed a Phase I Environmental Site Assessment (ESA) of the property known as Napa Oaks, located south of Old Sonoma Road and west of Casswall Street, Napa, California (hereinafter referred to as the Subject Property). This ESA was performed to provide a record of the site conditions at the subject property.

### 1.1 Purpose and Scope of Services

The purpose of this ESA was to assess the potential for adverse environmental impact from current and historical practices on the subject property and surrounding area.

The following tasks were performed in accordance with the proposed Scope of Services (Appendix A):

- Site reconnaissance of the subject property to investigate for recognized environmental conditions.
- A review of available geologic and hydrogeologic literature concerning the property and surrounding area.
- Interviews with persons familiar with the history of the subject property.
- Review of appropriate federal, state, and local regulatory agencies to reveal known hazardous wastes sites or significant leaks or spills of hazardous materials which may have occurred at the subject property and immediate vicinity.

No radon survey was conducted as there is no documented evidence suggesting excessive radon levels in the Napa area (State of California-Department of Health Services, *California Statewide Radon Survey - Interim Results*, March 1990).

### 1.2 Limitations and Exceptions to Agreement

ACC has performed the services for this project in accordance with our proposal, and within current standards of the American Society for Testing and Materials (ASTM) for Phase I ESAs. No guarantees are either expressed or implied. The ESA was based on a records search limited to reasonably ascertainable information and a site reconnaissance.

The investigation was limited to a search for recognized environmental conditions at the subject property. The term recognized environmental condition means the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that

generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

There is no investigation that is thorough enough to preclude the presence of hazardous materials which presently, or in the future, may be considered hazardous at the site. Because regulatory evaluation criteria are constantly changing, concentrations of contaminants presently considered low may, in the future, fall under more stringent regulatory standards that require remediation.

The site reconnaissance was limited to visual observation of surface conditions at the site. Interviews with public agency personnel were conducted. Reasonably ascertainable information was reviewed. This approach reflects current ASTM standards unless the information obtained as part of this work suggests the need for further investigation. No warranty or guarantee of site conditions is intended.

Where there is a conflict between the environmental database and ACC's actual knowledge with regard to the distance and direction from the subject property of sites listed on the database, information obtained by ACC from the site reconnaissance will be used. Whenever feasible, ACC will note such conflict within the text of the report.

The investigation addresses recognized environmental conditions at the subject property. However, certain conditions, such as those listed below may not be revealed:

- 1) naturally occurring toxic materials in the subsurface soils, rocks, water or toxicity of on-site flora;
- 2) toxicity of substances common in current habitable environments, such as stored household products, building materials, and consumables;
- 3) biological pathogens;
- 4) contaminant plume below sampled or observed surface from remote source;
- 5) contaminants or contaminant concentrations that do not violate present regulatory standards, but may violate future standards; and
- 6) unknown site contamination, such as "midnight" dumping and/or accidental spillage which may occur following the site visit by ACC.

Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions. This document and the information contained herein have been prepared solely for the Client and any reliance on this report by third parties not authorized by the Client shall be at such party's sole risk.

### 1.3 Limiting Conditions

The buildings and residences located on the subject property were not included in the scope of work (Appendix A) and were therefore not inspected as part of this assessment.

## 2.0 SITE DESCRIPTION

### 2.1 Location and Legal Description

The <sup>Napa?</sup> Alameda County Assessor's office identifies the subject property as Assessor's Parcel Numbers (APNs) 043-040-008, 043-040-010, 043-040-013, and 043-040-025, herein described as parcels 008, 010, 013, and 025, respectively. The property and surrounding area are zoned RL6, low density residential (6 residential units per acre) and is noted to have hillside and erosion potential by the City of Napa Planning Department. The surrounding area includes residential and agricultural including farms and vineyards (Figures 1 and 2).

### 2.2 Site and Vicinity Characteristics

The site is approximately 81 acres and consists of vacant, undeveloped grazing land and developed residential and farmland (see Photographs 1 through 4 and Figures 1 and 2).

### 2.3 Descriptions of Structures and Improvements

The subject property consists of four parcels as described in Section 2.1 of this report (Figure 2). A description of the structures and improvements is provided below.

#### *Parcel 008*

Parcel 008 consists of 70.18 acres, which is the majority of the subject property. Parcel 008 is mainly used for cattle grazing. Areas of previous cut and fill, a former reservoir, and naturally occurring springs were observed on the parcel (Photographs 5, 6, 7, and 8). In addition, remnants of a former fence (observed as a debris pile, Photograph 9) were observed on the parcel. A groundwater monitoring well was observed on the northeastern corner of Parcel 008 (Photograph 14).

#### *Parcel 010*

Parcel 010, 1.19 acres, consists of a residence with the address 3027 Old Sonoma Road.

#### *Parcel 013*

Parcel 013, 1.39 acres consists of a residence with address 211 Casswall Street.

### *Parcel 025*

Parcel 025, 7.75 acres, consists of a residence, barn, garage, remnants of a former barn and house, and water storage tank (Photographs 10, 11, 12, and 13).

## **2.4 Environmental Liens or Specialized Knowledge**

ACC was not informed of any environmental liens associated with the subject property.

## **2.5 Current Uses of the Property**

The subject property is currently used as residences and cattle grazing.

### **2.5.1 Proposed Use of the Property**

The property is proposed to be developed with an approximately 85-unit residential community known as the Napa Oaks.

## **2.6 Past Uses of the Subject Property**

ACC reconstructed a brief history of the subject property through a review of Haines City Directory available at the City of Napa Public Library, a review of building permits available at the City of Napa Building Department, a review of historic aerial photographs available at Pacific Aerial Surveys, and a review of historical topography maps available at the Napa Historical Society. There were no Sanborn Fire Insurance maps available for the subject property. A listing of Haines City Directories, aerial photographs, and topographical maps reviewed can be found in Section 7.0 of this report.

1940 -

1954:

Based on a review of aerial photographs and historical topography maps, the subject property was cattle grazing land. Areas of cut and fill grading were apparent on the property and a reservoir was observed on parcel 008. Parcel 010 was developed with a residential home, and parcel 013 was developed with a home and adjoining orchard. Parcel 025 was developed with a structure in the location of the current barn and a small structure in the location of the current house and barn, south of the current house (Figures 3 and 4).

1954 -

1965

Based on a review of aerial photographs, historical topography maps, and Haines directory, cut and fill grading occurred on parcel 008. The former reservoir was not seen. A house was constructed on parcel 025 at the

location of the current house. Parcels 010 and 013 appeared unchanged from the previous years (Figure 5).

1965 -  
1992

Based on a review of aerial photographs, historical topography maps, and Haines directory, a large building was constructed adjacent to the small building located south of the house on parcel 025. Cut and fill grading occurred on parcel 008. Parcels 010 and 013 appeared similar to previous years (Figures 6 and 7).

1992 -  
Present

Based on a review of aerial photographs and site reconnaissance, the buildings south of the residence and barn located on Parcel 025 were removed and only concrete slabs remain (Photograph 10). The surrounding areas appeared similar to previous years.

## 2.7 Current and Past Uses of Adjacent Properties

The adjacent and surrounding properties have been and are currently used for residential and agricultural lands.

## 3.0 RECORDS REVIEW

### 3.1 Physical Setting

The subject property is located at the southwestern corner of Old Sonoma Road and Casswall Street, Napa, California. The property extends over several northwest-trending ridges and associated valleys. Based on previous studies performed on the subject property and in the area and historical aerial photograph review, several areas within the subject property have been previously graded. Significant fills of unknown origin and construction are evident throughout the property. ACC's review of historical aerial photographs indicates that a previous reservoir was present within the east-central portion of the subject property, which was maintained by an east-west trending dam. The dam and reservoir were not observed during the site reconnaissance. Surface water runoff flows toward the southern portion of the subject property, along the central area, and flows toward the northern portion of the from the former reservoir area.

Geologic mapping performed on the property indicates that the southwestern half of the subject property is underlain by Eocene age Domengine Sandstone (Fox et al., 1973) consisting of brown, feldspathic, quartz sandstone. The northeastern portion of the subject property has been mapped as tuffaceous rocks and basaltic and andesitic flow rocks of the Sonoma Volcanics (Fox et al., 1973). The contact between the Domengine Sandstone and the Sonoma Volcanics is fault controlled (Phoenix Geotechnical, 1993). The areas of the former reservoir are covered with up to 16 feet of fill consisting of loose to medium dense, clayey gravel, which produces a hummocky surface in

several locations (Phoenix Geotechnical, 1993). Branches of the West Napa Fault trace has been mapped on and near the property (Phoenix Geotechnical, 1993). Water occurs on the property in the form of naturally occurring springs or seeps. The springs occur in the southwestern portion of the property, within the Sonoma Volcanic formational rocks. During the site reconnaissance, springs located within the central portion of the subject property were flowing. Evidence such as ponding water from the seasonal springs were observed along the southwestern hillside. According to previous geotechnical investigations performed on the property, rainwater percolates along faults and lithologic contacts and through the topsoil on the hillside and migrates downslope in the form of seepage at the interface of the soil/bedrock contact or within the upper portions of the weathered and fractured bedrock.

The Napa River lies approximately 1.4 miles to the east of the subject property. Depth to groundwater in the immediate area has been reported to be approximately 25 to 50 feet below ground surface (bgs). The groundwater in the immediate area is presumed to flow downslope, toward the east, toward the Napa River.

### 3.2 Government Environmental Agency Record Review

Table 1: Records Review lists the government environmental agency databases ACC reviewed. Shaded cells indicate that, in accordance with ASTM guidelines, the Environmental Database was not searched to the corresponding distance. The database obtained from ERIIS, Inc. is included as Appendix B. When locations and distances reported by ERIIS were observed to be incorrect, ACC amended the information to provide a more accurate assessment.

TABLE 1: RECORDS REVIEW					
<i>Environmental Database</i>	<i>Subject site</i>	<i>within 1/8 mile</i>	<i>1/8 - 1/4 mile</i>	<i>1/4 - 1/2 mile</i>	<i>1/2 - 1 mile</i>
National Priorities List (NPL)	No	0	0	0	0
Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal Facilities (TSDF)	No	0	0	0	0
California State Priorities List (SPL)	No	0	0	0	0
California State Contaminant List (SCL)	No	0	0	0	0
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)	No	0	0	0	
Leaking Underground Storage Tank (LUST)	No	0	0	1	4
Solid Waste Landfills (SWLF)	No	0	0	0	
Underground Storage Tank (UST)	No	0	0	1	
Aboveground Storage Tank (AST)	No	0	0		
Emergency Response Notification System (ERNS)	No	0			
RCRA Large Quantity Generators	No	0			
RCRA Small Quantity Generators	No	0			

### 3.2.1 Subject Property

The subject property did not appear on any government database reviewed by ACC.

### 3.2.2 LUST Database

LUST sites are those that have had unauthorized release of hazardous materials from USTs tanks. This database is maintained by the California Regional Water Quality Control Board (RWQCB). There are five sites listed on the LUST database that are located within 1.0 mile of the subject property. Of these five sites, only one site is located within 0.5 mile of the subject property.

**Site Name:** J & P Market  
**Site Address:** 2764 Old Sonoma Road  
**Gradient Direction:** Downgradient  
**Distance/Direction:** 0.32 mile Northeast  
**Radius Map:** Figure 9, Mapped Site #1

**Summary of Activities:** In June 1988, two 4,000-gallon gasoline USTs were removed from this site. Soil collected from the tank excavation indicated no detectable concentrations of gasoline constituents above laboratory reporting limits. A water sample collected within the excavation indicated 21 parts per million total petroleum hydrocarbons as gasoline (TPHg). As a result of the release, NCDEM required the installation of one groundwater monitoring well. In January 1990, one groundwater well was installed on the property. Groundwater samples indicated no detectable concentrations of gasoline constituents above laboratory reporting limits. The site was subsequently closed from further investigation in NCDEM's letter dated March 7, 1993.

There is no documented evidence in the agency files that indicates a constituent plume has migrated from this property to the subject property. Due to the levels of constituents remaining at the J & P Market property, and the distance of this site from the subject property, and the direction of regional groundwater flow, it is unlikely that constituents originating at this site would migrate to the subject property.

### 3.2.3 UST Database

The UST database contains sites with registered USTs. This database is maintained by the RWQCB. There is one site listed on the UST database that is located within 0.50 mile of the subject property.

**Site Name:** Diego Sheila Verza  
**Site Address:** 2937 West Pine Street  
**Gradient Direction:** Downgradient  
**Distance/Direction:** 0.46 North-Northeast  
**Radius Map:** Figure 9, Mapped Site #2

**Summary of Activities:** In accordance with the State Water Resources Control Board (SWRCB) in a letter to the home owner dated December 4, 1986, USTs with capacity of 1,100 gallon or less, located at a residence and used to store heating oil for personal use, are exempt from regulations. This site has a 500-gallon heating oil tank for home use. Under SWRCB current guidelines, no obligations are required for this site.

There was no additional information in the files regarding this UST. Due to the distance and location of this site from the subject property, it is considered unlikely that constituents originating at this site would migrate to the subject property.

#### 3.2.4 Other Sites of Potential Environmental Concern

ACC did not identify any other sites of potential environmental concern.

### 3.3 Historical Use Information

For a history of the subject property see Section 2.6, Past Uses of the Property.

### 3.4 Additional Record Sources

Information from the City of Napa Building and Planning Department records were reviewed. All relevant information from this source is discussed elsewhere in this report.

## 4.0 INFORMATION FROM SITE RECONNAISSANCE AND INTERVIEWS

On Friday, August 8, 1997, Ms. Misty Kaltreider, California Registered Environmental Assessor, conducted a site reconnaissance at the subject property. No evidence of the following items were found at the subject property during the reconnaissance:

- USTs
- patched areas where USTs were removed
- aboveground storage tanks
- hazardous waste storage areas
- stained surfaces
- vaults
- storm drains
- wastewater other than ordinary domestic sewage
- oil burners
- hydraulic lifts
- ponds, pits, culverts, lagoons
- oil/water separators
- sumps
- stressed vegetation

- discarded automobile batteries
- hazardous materials

#### 4.1 Recognized Environmental Concerns Observed

Evidence was found of the presence of the following items during the site reconnaissance. A discussion of these items follows:

- groundwater well
- electrical transformers

##### 4.1.1 Groundwater Well

During site reconnaissance, ACC observed a groundwater well located on the eastern portion of the property (Photograph 14). No information regarding the well was found during file review. During a telephone conversation personnel from McLean and Williams, Inc., well and pump contractor for the well, indicated that the well is used for water for livestock, and no other information is known regarding the well. Based on conversations with Inspector Sheldon Sapoznik of the NCDEM, if the owner wants to keep the well, then a letter stating the well's purpose must be submitted to NCDEM. If the well is to be used by 25 or more persons for more than 60 days per year, it is considered a public water supply. A public water supply therefore must be permitted for annual water supply and tested and conditioned prior to use.

If the well is not to be used and is left abandoned (not used for more than one year), it is required to be destroyed properly in accordance with the State of California, Department of Water Resources guidelines as directed by the Safe Drinking Water Act, Chapter 7, Part 1, Division 5, Health and Safety Code. A permit is required through NCDEM for well destruction.

##### 4.1.2 Electrical Transformers

During the site reconnaissance, ACC observed a pole-mounted electrical transformer located adjacent to the existing house on Parcel 025 of the subject property, and several pole-mounted electrical transformers located along Old Sonoma Road, adjacent to the subject property to the north.

The pole-vaulted transformers are being assessed by PG&E for PCBs in the area of Napa near the subject property. No information regarding the transformers located on the subject property has been reported. ACC did not observe any leaking or staining associated with the transformers.

#### 4.2 Physical Setting Analysis

No contaminant plumes were identified that extend to the subject property from an offsite source. Because regional groundwater flow direction, and regional topography which slopes to the east

have been documented to be toward the east in the area of the subject property, constituents originating from sites to the west would be more likely to migrate to the subject property than would contaminants originating from sites north, south, and west of the subject property.

#### 4.3 Any Other Conditions of Concern

During the site reconnaissance, ACC observed three piles of soil and miscellaneous debris on site (Photograph 9). The piles contained assorted construction debris including wood, wire, brick, gravel, and soil. ACC did not observe any hazardous materials, discoloration, or odor associated with the debris piles.

#### 5.0 CONCLUSIONS

ACC performed a Phase I ESA in conformance with the proposed scope of services and within the scope and limitations of ASTM Standard Practice E 1527-95 at the property located at Napa, California. Exceptions to, or deletions from the Standard Practice are described within the report. This assessment has revealed no evidence of Recognized Environmental Conditions with the following exception:

During site reconnaissance, ACC observed a groundwater well located on the eastern portion of the property (Photograph 14). No information regarding the well was found during file review. During a telephone conversation personnel from McLean and Williams, Inc., well and pump contractor for the well, indicated that the well is used for water for livestock, and no other information is known regarding the well. Based on conversations with Inspector Sheldon Sapoznik of the NCDEM, if the owner wants to keep the well, then a letter stating the well's purpose must be submitted to NCDEM. If the well is to be used by 25 or more persons for more than 60 days per year, it is considered a public water supply. A public water supply therefore must be permitted for annual water supply and tested and conditioned prior to use.

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## 6.0 AGENCY REVIEW

The following governmental agencies were contacted to obtain the information in this report:

Jurisdiction	Agency
Federal	U.S. Environmental Protection Agency, Region IX, San Francisco.
State and Regional	State Water Resources Control Board, Sacramento Regional Water Quality Control Board, Oakland  State of California Environmental Protection Agency, Department of Toxic Substances Control, Berkeley  Bay Area Air Quality Management District
County and Local	Napa County Assessor's Office  City of Napa Fire Department  City of Napa Building and Planning Departments  Napa County Department of Environmental Health

## 7.0 REFERENCES

Napa Historical Society, 1902, 1939 reprint Napa Quadrangle; 1951 Napa Quadrangle; 1980 Napa Quadrangle;

Pacific Aerial Surveys: AV 231-1-5; 08-22-56, SF-Area 2-6,7; 03/02/58, AV-710-8-11,12, 04/20/66; AV-844-12-10,11, 04/10/68; AV-965-6-11,12; 09/08/70; AV-1215-7-8,8, 09/08/75; AV-2050-7-11, 11/02/81; AV-3306-32-44, 07/08/88; AV-4070-15-24, 08/07/91; CIRAV-4314-509, 08/21/92; CIRAV-4900-4-17, 08/29/95.

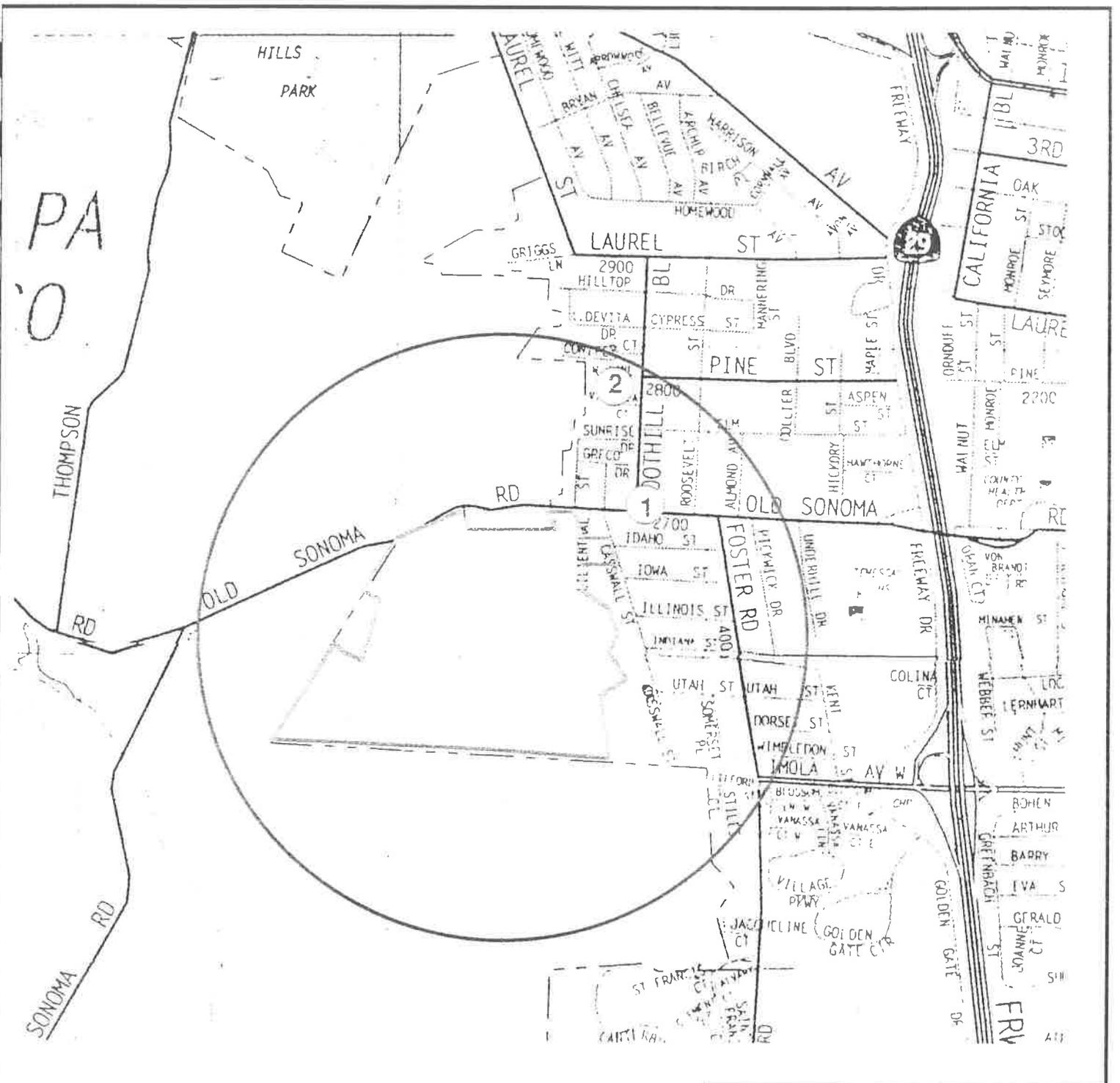
Haines City Directories: 1986, 1980, 1975, 1970, 1965, 1960, 1954, 1950, 1947.

Fox, et, al., 1973, Preliminary Geologic Map of Eastern Sonoma County and Western Napa County, California: U.S. Geologic Survey Miscellaneous Field Studies Map MF-483, BDC 56, Scale 1:62,500.

Phoenix Geotechnical, *Preliminary Geotechnical Feasibility Study*, Napa Oaks Subdivision, Napa, California, March 28, 1994

## 8.0 INTERVIEWS

McLean and Williams, Inc., (707) 255-6450  
Sheldon Sapoznick, NCDEM (707) 253-4471  
PG&E Customer Service (800) 743-5000



PA  
O

**Legend**

----- - Outline of Subject Property

① - Mapped Site

Title: 1/2 Mile Radius Map Napa Oaks Site Napa, California	
Figure Number: 9	Scale: 1" = 1/4'
Drawn By: CLM	Date: 8/11/97
Project Number: 97-6438-001.00	
<b>ACC Environmental Consultants</b> 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404	

**TABLE 1**  
**SOIL SAMPLING RESULTS (ppm)**  
 Napa Oaks, Napa, California

Sample Location	Sample Date	Sample Interval (feet BGS)	USEPA Method			
			6010/7000 (Metals) <sup>1</sup>	8080 (Pesticides)	8015-M (TPH) <sup>2</sup>	8240 (VOCs)
SB-1 thru SB-4 (Composite)	2-Apr-98	0 - 0.5	3.3 - Ag 2.7 - As 130 - Ba 0.44 - Be 7.9 - Co 57 - Cr 31 - Cu 11 - Ni 22 - Pb 14 - V <sup>o</sup> 49 - Zn	DDT - .0076 DDE - .0081	49 - Motor Oil	ND

<sup>1</sup> All other metals were not detected, at or above laboratory reporting limits.

<sup>2</sup> All other petroleum hydrocarbons were not detected, at or above laboratory reporting limits.  
 ppm = parts per million

USEPA = United States Environmental Protection Agency

ND = not detected, at or above laboratory reporting limits

BGS = below ground surface

6010/7000 = USEPA Series Method for California Assessment Manual Metals

8080 = USEPA Method for Pesticides

8015M = USEPA Modified Method for Petroleum Hydrocarbons (Fuel Fingerprinting)

8240 = USEPA Method for Volatile Organic Compounds



**ATTACHMENT 1**  
**CERTIFIED LABORATORY DATA SHEETS**



**Analysis Report: CAM Metals, EPA Methods 6010/7000**

**Client:** McLaren/Hart-Alameda  
 1135 Atlantic Avenue  
 Alameda, CA 94501

**Project No.:** 04.0603375.001.001  
**Contact:** Doug Beadle  
**Phone:** (510)748-5664

**Project:** Lamphier & Associates

**Lab Contact:** Ray Oslowski  
**Lab ID No.:** P3200-5A  
**Job No.:** 813200  
**COC Log No.:** 32625  
**Batch No.:** M980406B  
**Instrument ID:** INMIX  
**Analyst ID:** FELIXL  
**Matrix:** SOIL

**Date Sampled:** 04/02/98  
**Date Received:** 04/03/98  
**Date Digested:** 04/06/98  
**Date Analyzed:** 04/07/98  
**Date Reported:** 04/09/98  
**Client ID No.:** 111464-7(0-6") Composite

**Sample: 111464-7(0-6") COMPOSITE**

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Method	Dilution (factor)
Ag (Silver)	7440-22-4	3.3	3.0	6010	3.0
As (Arsenic)	7440-38-2	2.7	0.50	7060	1.0
Ba (Barium)	7440-39-3	130	1.0	6010	1.0
Be (Beryllium)	7440-41-7	0.44	0.25	6010	1.0
Cd (Cadmium)	7440-43-9	ND	0.50	6010	1.0
Co (Cobalt)	7440-48-4	7.9	1.0	6010	1.0
Cr (Chromium)	7440-47-3	57	1.0	6010	1.0
Cu (Copper)	7440-50-8	31	1.0	6010	1.0
Hg (Mercury)	7439-97-6	ND	0.10	7471	1.0
Mo (Molybdenum)	7439-98-7	ND	1.0	6010	1.0
Ni (Nickel)	7440-02-0	11	1.0	6010	1.0
Pb (Lead)	7439-92-1	22	2.5	6010	1.0
Sb (Antimony)	7440-36-0	ND	2.5	6010	1.0
Se (Selenium)	7783-00-8	ND	0.25	7740	1.0
Tl (Thallium)	7440-28-0	ND	0.50	7841	1.0
V (Vanadium)	7440-62-2	14	1.0	6010	1.0
Zn (Zinc)	7440-66-6	49	1.0	6010	1.0

ND = Not detected at or above indicated Reporting Limit

**Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Sonication, EPA Method 3550**

**Client: McLaren/Hart-Alameda**  
1135 Atlantic Avenue  
Alameda, CA 94501

**Project No.:** 04.0603375.001.001  
**Contact:** Doug Beadle  
**Phone:** (510)748-5664

**Project: Lamphier & Associates**

**Lab Contact:** Ray Osowski  
**Lab ID No.:** P3200-5A  
**Job No.:** 813200  
**COC Log No.:** 32625  
**Batch No.:** 22097  
**Instrument ID:** PGC06  
**Analyst ID:** SEPIDEHS  
**Matrix:** SOIL

**Date Sampled:** 04/02/98  
**Date Received:** 04/03/98  
**Date Extracted:** 04/06/98  
**Date Analyzed:** 04/06/98  
**Date Reported:** 04/09/98  
**Client ID No.:** 111464-7(0-6") Composite

\_\_\_\_\_ **Sample: 111464-7(0-6") COMPOSITE** \_\_\_\_\_

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
TPH as Diesel	N/A	ND	25	10
TPH as Motor Oil	N/A	49	25	10

**REPORTING LIMITS HAVE BEEN ELEVATED DUE TO MATRIX INTERFERENCES.**

**ND = Not detected at or above indicated Reporting Limit**

**Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015  
Purge and Trap, EPA Method 5030**

**Client: McLaren/Hart-Alameda**  
1135 Atlantic Avenue  
Alameda, CA 94501

**Project No.:** 04.0603375.001.001  
**Contact:** Doug Beadle  
**Phone:** (510)748-5664

**Project: Lamphier & Associates**

**Lab Contact:** Ray Osowski  
**Lab ID No.:** P3200-5A  
**Job No.:** 813200  
**COC Log No.:** 32625  
**Batch No.:** 22091  
**Instrument ID:** GC007  
**Analyst ID:** JENMDC  
**Matrix:** SOIL

**Date Sampled:** 04/02/98  
**Date Received:** 04/03/98  
**Date Extracted:** 04/06/98  
**Date Analyzed:** 04/06/98  
**Date Reported:** 04/06/98  
**Client ID No.:** 111464-7(0-6") Composite

**111464-7(0-6") COMPOSITE**

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)	Dilution (factor)
TPH as Gasoline	N/A	ND	1.0	1.0

ND = Not detected at or above indicated Reporting Limit

## ANALYTICAL RESULTS SUMMARY

Client: McLaren/Hart-Alameda  
1135 Atlantic Avenue  
Alameda, CA 94501

Project No.: 04.0603375.001.001  
Contact: Doug Beadle  
Phone: (510)748-5664

Project: Lamphier & Associates

Lab Contact: Ray Oslowski  
Lab ID No.: P3200  
Job No.: 813200  
COC Log No.: 32625

Date Received: 04/03/98

Date Reported: 04/10/98

## ALL RESULTS

Client	Sample I.D.	Lab Analyte	Method I.D.	Results	Rep. Limit
111464-7(0-6") Composite	5A	Acetone	E8240S	ND	100 ug/kg
		Aldrin		ND	1.7 ug/kg
		Benzene		ND	5.0 ug/kg
		alpha BHC		ND	1.7 ug/kg
		Bromodichloromethane		ND	5.0 ug/kg
		beta BHC		ND	1.7 ug/kg
		Bromoform		ND	5.0 ug/kg
		delta-BHC		ND	1.7 ug/kg
		Bromomethane		ND	10 ug/kg
		Lindane		ND	1.7 ug/kg
		2-Butanone		ND	100 ug/kg
		Chlordane		ND	80 ug/kg
		4,4'-DDD		ND	3.3 ug/kg
		Carbon disulfide		ND	5.0 ug/kg
		4,4'-DDE		8.1	3.3 ug/kg
Carbon tetrachloride		ND	5.0 ug/kg		

**ANALYTICAL RESULTS SUMMARY**

**Client:** McLaren/Hart-Alameda  
 1135 Atlantic Avenue  
 Alameda, CA 94501

**Project No.:** 04.0603375.001.001  
**Contact:** Doug Beadle  
**Phone:** (510)748-5664

**Project:** Lamphier & Associates

**Lab Contact:** Ray Oslowski  
**Lab ID No.:** P3200  
**Job No.:** 813200  
**COC Log No.:** 32625

**Date Received:** 04/03/98  
**Date Reported:** 04/10/98

**ALL RESULTS(cont.)**

Client	Sample I.D. Lab Analyte	Method I.D.	Results	Rep. Limit
	4,4'-DDT		7.6	3.3 ug/kg
	Chlorobenzene		ND	5.0 ug/kg
	Chloroethane		ND	10 ug/kg
	Dieldrin		ND	3.3 ug/kg
	2-Chloroethyl vinyl ether		ND	50 ug/kg
	Endosulfan I		ND	1.7 ug/kg
	Chloroform		ND	5.0 ug/kg
	Endosulfan II		ND	3.3 ug/kg
	Chloromethane		ND	10 ug/kg
	Endosulfan sulfate		ND	3.3 ug/kg
	Dibromochloromethane		ND	5.0 ug/kg
	Endrin		ND	3.3 ug/kg
	Dibromomethane		ND	5.0 ug/kg
	Endrin aldehyde		ND	3.3 ug/kg
	1,2-Dichlorobenzene		ND	5.0 ug/kg

## ANALYTICAL RESULTS SUMMARY

Client: McLaren/Hart-Alameda  
1135 Atlantic Avenue  
Alameda, CA 94501

Project No.: 04.0603375.001.001  
Contact: Doug Beadle  
Phone: (510)748-5664

Project: Lamphier & Associates

Lab Contact: Ray Oslowski  
Lab ID No.: P3200  
Job No.: 813200  
COC Log No.: 32625

Date Received: 04/03/98

Date Reported: 04/10/98

## ALL RESULTS(cont.)

Client	Sample I.D. Lab Analyte	Method I.D.	Results	Rep. Limit
	Heptachlor		ND	1.7 ug/kg
	1,3-Dichlorobenzene		ND	5.0 ug/kg
	Heptachlor epoxide		ND	1.7 ug/kg
	1,4-Dichlorobenzene		ND	5.0 ug/kg
	Kepone		ND	3.3 ug/kg
	Dichlorodifluoromethane		ND	10 ug/kg
	Methoxychlor		ND	17 ug/kg
	1,1-Dichloroethane		ND	5.0 ug/kg
	Mirex		ND	3.3 ug/kg
	1,2-Dichloroethane		ND	5.0 ug/kg
	Toxaphene		ND	160 ug/kg
	1,1-Dichloroethene		ND	5.0 ug/kg
	1,2-Dichloroethene, total		ND	5.0 ug/kg
	1,2-Dichloropropane		ND	5.0 ug/kg
	cis-1, 3-Dichloropropene		ND	5.0 ug/kg

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**ANALYTICAL RESULTS SUMMARY**

**Client:** McLaren/Hart-Alameda  
 1135 Atlantic Avenue  
 Alameda, CA 94501

**Project No.:** 04.0603375.001.001  
**Contact:** Doug Beadle  
**Phone:** (510)748-5664

**Project:** Lamphier & Associates

**Lab Contact:** Ray Oslowski  
**Lab ID No.:** P3200  
**Job No.:** 813200  
**COC Log No.:** 32625

**Date Received:** 04/03/98

**Date Reported:** 04/10/98

**ALL RESULTS(cont.)**

Client	Sample I.D. Lab Analyte	Method I.D.	Results	Rep. Limit
	trans-1, 3-Dichloropropene		ND	5.0 ug/kg
	Ethylbenzene		ND	5.0 ug/kg
	2-Hexanone		ND	50 ug/kg
	Methylene chloride		ND	5.0 ug/kg
	4-Methyl-2-pentanone		ND	50 ug/kg
	Styrene		ND	5.0 ug/kg
	1,1,2, 2-Tetrachloroethane		ND	5.0 ug/kg
	Tetrachloroethene		ND	5.0 ug/kg
	Toluene		ND	5.0 ug/kg
	1,1,1-Trichloroethane		ND	5.0 ug/kg
	1,1,2-Trichloroethane		ND	5.0 ug/kg
	Trichloroethene		ND	5.0 ug/kg
	Trichlorofluoromethane		ND	5.0 ug/kg
	1,1,2-Trichloro-1,2, 2-trifluoroethane		ND	5.0 ug/kg

**ANALYTICAL RESULTS SUMMARY**

**Client:** McLaren/Hart-Alameda  
 1135 Atlantic Avenue  
 Alameda, CA 94501

**Project No.:** 04.0603375.001.001  
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**Phone:** (510)748-5664

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**Lab Contact:** Ray Oslowski  
**Lab ID No.:** P3200  
**Job No.:** 813200  
**COC Log No.:** 32625

**Date Received:** 04/03/98  
**Date Reported:** 04/10/98

**ALL RESULTS(cont.)**

Client	Sample I.D. Lab Analyte	Method I.D.	Results	Rep. Limit
	Vinyl acetate		ND	50 ug/kg
	Vinyl chloride		ND	10 ug/kg
	Xylenes, total		ND	10 ug/kg