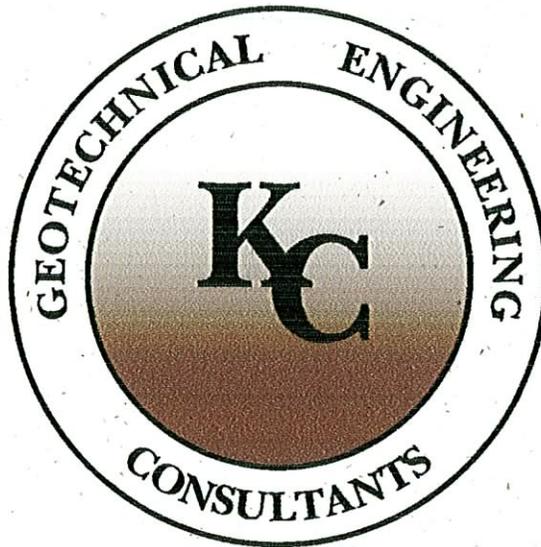


**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
OF  
ASSESSOR'S PARCEL NUMBERS 0173-390-160 AND 180  
North of Highway 12, between Sunset Avenue and Snow Drive  
Suisun City, Solano County, California  
For  
SUISUN REDEVELOPMENT AGENCY**



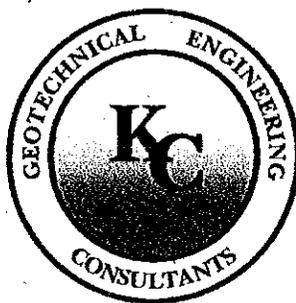
**By**

**KC ENGINEERING COMPANY**

**Project No. VV2335-06**

**13 September 2006**

865 Cotting Lane, Suite A  
Vacaville, California 95688  
(707) 447-4025, fax 447-4143



8798 Airport Road  
Redding, California 96002  
(530) 222-0832, fax 222-1611

**KC ENGINEERING COMPANY**  
A SUBSIDIARY OF MATERIALS TESTING, INC.

Project No. VV2335-06  
13 September 2006

Mr. Jason Garben  
Suisun Redevelopment Agency  
701 Civic Center Boulevard  
Suisun City, California 94585

Subject: APN's 0173-390-160 and 180  
North of Highway 12, between Sunset Avenue and Snow Drive  
Suisun City, Solano County, California  
**PHASE I ENVIRONMENTAL SITE ASSESSMENT**

Dear Mr. Garben:

In accordance with your authorization, **KC ENGINEERING COMPANY** has completed a Phase I Environmental Site Assessment of Assessor's Parcel Numbers 0173-390-160 and 180, located along the north side of Highway 12 between Sunset Avenue and Snow Drive in Suisun City, Solano County, California.

The accompanying report presents our conclusions and recommendations based on our investigation and review. Historical research indicates that the property consisted of vacant undeveloped land from at least 1898 to the present. The property appears to have been used as a hay field from approximately 1937 to 1970. No evidence was encountered to indicate that the property has historically contained row crops or orchards. The approximate 8.29-acre property currently consists of vacant land that is vegetated with weeds and grasses. A traveling carnival was located on the western portion of the property during the site reconnaissance. Regulated quantities of hazardous materials including 55-gallon drums of chemicals, underground storage tanks, and aboveground storage tanks were not observed to be used, stored, or disposed of on the property during the site reconnaissance.

Oil and gas wells were not identified on the subject property. The subject property was not identified on any of the 64 databases reviewed as a hazardous materials use, storage, disposal, or release site. No obvious potential off-site sources of contamination were identified within the ASTM-specified search distances (up to one mile) of the property on the 64 government databases reviewed.

Obvious recognized environmental conditions were not identified for the property during the course of this assessment. No further environmental investigation of the property appears warranted at this time.

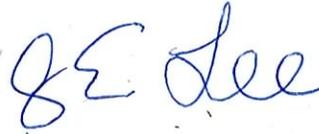
Should you have any questions relating to the contents of this report, or should you require additional information, please contact our office at your convenience.

Reviewed by:

Respectfully Submitted,  
**KC ENGINEERING CO.**



David V. Cymanski, G.E.  
Principal Engineer



Amy E. Lee, R.E.A.  
Environmental Assessor



Copies: 6 to Suisun Redevelopment Agency

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## INTRODUCTION

### Purpose and Scope

This report presents the findings of the Phase I Environmental Site Assessment conducted for Assessor's Parcel Numbers 0173-390-160 and 180 located along the north side of Highway 12, between Sunset Avenue and Snow Drive in Suisun City, Solano County, California. The approximate 8.29-acre property currently consists of vacant land. A traveling carnival was located on the western portion of the property during the site reconnaissance. This evaluation has been performed at your request to identify, to the extent feasible pursuant to the processes prescribed in ASTM E-1527-00, recognized environmental conditions in connection with the subject property. The term "recognized environmental conditions" 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.

Our investigation included the following:

- a. Visual reconnaissance of the property to evaluate current on-site activities and past uses;
- b. Review of reasonably ascertainable local regulatory files concerning chemical use and storage at the property;
- c. Acquisition of a computerized review of federal, state, and local publications to identify National Priority List (NPL); Resource Conservation and Recovery Act (RCRA); United States Environmental Protection Agency (EPA), Region 9, Comprehensive Environmental Response, Compensation, and Liability Information

- System (CERCLIS); RCRA Treatment, Storage and Disposal (TSD); and Emergency Response Notification System (ERNS) sites located within close proximity to the property as well as landfills, Leaking Underground Storage Tanks (LUST) sites and registered underground storage tank (UST) and above-ground storage tank (AST) sites;
- d. Review of selected historic documentation of the property to determine what activities have occurred at the subject site since the property's first developed use or since 1940 (when available);
  - e. General visual survey of the current uses of the immediately adjacent sites;
  - f. Preparation of this written report in general conformance to the guidelines presented in ASTM Standard E-1527-00, *Standard Practice for Environmental Site Assessments*.

### **Site Location and Description**

The approximate 8.29-acre subject property is located along the north side of Highway 12, between Sunset Avenue and Snow Drive in Suisun City, Solano County, California. The property currently consists of vacant land. A traveling carnival was located on the western portion of the property during the site reconnaissance. Access to the subject property can be made from Highway 12 (Rio Vista Road). The predominant land uses in the immediate vicinity of the property are a mix of commercial buildings, gasoline service stations, residences, and vacant land. A Vicinity Map, Site Sketch, and Aerial Photograph are attached as Plates I, II, and III, respectively.

The topography of the site is relatively flat, with an overall gentle downward gradient towards the south. The elevation of the property is approximately 10 feet above sea level (USGS 7.5-minute Fairfield South, California Quadrangle, 1980).

## **Hydrology**

Specific depth to groundwater information was not available for the property. Depth to groundwater was reported between 3.8- and 8.0-feet below the ground surface in a well located approximately 450-feet west of the property. Groundwater flow direction was reported to the south in this well (EDR Inquiry Number 1747872.2s). No wells were observed on the property during the recent site reconnaissance.

The property is identified within the bounds of a 100-year flood zone. The property is not identified as a federal wetlands area (EDR Inquiry Number 1747872.2s).

## **RECORDS REVIEW**

In order to obtain information regarding current and past recognized environmental conditions at the site, information from several sources was researched. The results of this research are outlined below.

### **Aerial Photographs**

In an attempt to identify the likelihood of past property uses having led to recognized environmental conditions in connection with the property or surrounding areas, select aerial photographs of the subject property and surrounding areas were reviewed. Photographs taken between 1937 and 1998 were available for review. The following features relative to land use history were identified:

#### 1937 – (Flyer: Laval, Scale 1" = 555')

The property consists of vacant land that appears to be used as a hay field. Hay fields adjoin the property to the north, west, and east. Highway 12 adjoins the property to the south, followed by hay fields.

1957 – (Flyer: Cartwright, Scale 1" = 555')

The property and adjoining parcels appear similar to the previous photograph.

1965 – (Flyer: Cartwright, Scale 1" = 333')

The property remains vacant land that appears to be used as a hay field. Hay fields adjoin the property to the north, west, and east. Highway 12 adjoins the property to the south, followed by hay fields.

1970 – (Flyer: Cartwright, Scale 1" = 555')

The property and adjoining parcels appear similar to the previous photograph.

1982 – (Flyer: Western State Aerial, Scale 1" = 690')

The property consists of vacant undeveloped land. Residences and vacant land adjoin the property to the north. Vacant land and Highway 12 adjoin the property to the south, followed by agricultural fields. Commercial buildings adjoin the property to the west. Residences adjoin the property to the east.

1993 – (Flyer: USGS, Scale 1" = 666')

The property remains vacant undeveloped land. Commercial buildings adjoin the property to the northwest and west. Two gasoline service stations adjoin the property to the southwest. Highway 12 adjoins the property to the southeast, followed by vacant graded land. Residences adjoin the property to the east and northeast.

1998 – (Flyer: USGS, Scale 1" = 666')

The property and adjoining parcels appear similar to the previous photograph.

Two gasoline service stations have adjoined the property to the southwest from at least 1993 to the present. These two gasoline service stations will be discussed under the Regulatory Agency Database Review section of this report. No other obvious recognized environmental conditions for the property were noted from the aerial photographs reviewed.

### **Historical Topographic Maps**

In an attempt to assess past property uses that may have had an environmental impact on the property or surrounding areas, select historical topographic maps depicting the subject property and surrounding areas were reviewed. The following features relative to land use history were identified:

1898 – (USGS 15-Minute Karquines, California Quadrangle):

The property and adjoining parcels to the north, west, and east consist of vacant land. Highway 12 adjoins the property to the south, followed by vacant land.

1901 – (USGS 15-Minute Carquinez, California Quadrangle):

The property and adjoining parcels appear similar to the previous map.

1902 – (USGS 30-Minute Napa, California Quadrangle):

The property and adjoining parcels appear similar to the previous map.

1918 – (USGS 7.5-Minute Suisun, California Quadrangle):

The property and adjoining parcels to the north, west, and east remain vacant land. Highway 12 adjoins the property to the south, followed by vacant land.

1947 – (USGS 15-Minute Port Chicago, California Quadrangle):

The property and adjoining parcels appear similar to the previous map.

1950 – (USGS 7.5-Minute Fairfield South, California Quadrangle):

The property and adjoining parcels appear similar to the previous map.

1968 – (USGS 7.5-Minute Fairfield South, California Quadrangle):

The property and adjoining parcels to the north, west, and east remain vacant land.

Highway 12 adjoins the property to the south, followed by vacant land.

1980– (USGS 7.5-Minute Fairfield South, California Quadrangle):

The property and adjoining parcels to the northwest, west, and east remain vacant land.

Highway 12 adjoins the property to the south, followed by vacant land. Residences adjoin the property to the northeast.

No obvious recognized environmental conditions for the property were noted from the topographic maps reviewed.

### **Regulatory Agency Database Review**

To ascertain reported areas of possible environmental impairment on or in the vicinity of the subject property, lists published by several agencies were reviewed. During the course of this study **KC ENGINEERING COMPANY** utilized Environmental Data Resources, Inc. (EDR) as an information source for environmental records. Sixty-four (64) federal, state, local, tribal, and proprietary records databases were reviewed.

Oil and gas wells were not identified on the subject property. The subject property was not identified on any of the 64 databases reviewed as a hazardous materials use, storage, disposal, or release site. Two (2) adjoining sites were identified:

1. Unocal Suisun Food Mart (Stop N Go Market #2106), located adjacent to the southwest of the property at 115 Sunset Avenue, is identified on the Leaking Underground Storage Tank (LUST) database as having had a gasoline leak that resulted in contaminated groundwater in 1992. Monitoring wells were observed on this property during the recent site reconnaissance. This case received regulatory agency closure in 1997. Based on the fact that this site has received regulatory agency closure, it is not considered a recognized environmental condition for the subject property.
2. Chevron Station #200473, located adjacent to the southwest of the property at 113 Sunset Center, is identified on the SWEEPS Underground Storage Tank (UST) database, the Resource, Conservation, and Recovery Act (RCRA) Small Quantity Generator (SQG) database, and the FINDS database. This facility is not identified as having had a reported spill or release of hazardous materials, and is therefore not considered a recognized environmental condition for the subject property.

Three (3) additional hazardous materials use, storage, disposal, or release sites were identified within a one-mile radius of the subject property. Two (2) of the three identified sites have had a reported spill or release of hazardous materials. The one (1) identified hazardous materials use, storage, or disposal site that has not had a reported release of hazardous materials is not considered a recognized environmental condition for the subject property. One (1) of the two hazardous materials release sites has received regulatory agency closure, and is therefore not considered a recognized environmental condition for the subject property. The one (1) hazardous materials release site that has not received regulatory agency closure is located approximately 525-feet west

of the property, at 200 Sunset Avenue. This facility is identified on the LUST database as having a contaminated drinking water aquifer. Groundwater flow direction is reported to the south in the vicinity of the property (EDR Inquiry Number 1747872.2s). Based on the fact that this facility is located approximately 525-feet hydrologically crossgradient from the subject property, it is not considered a recognized environmental condition for the subject property.

In fuel leak cases, research conducted in the State of California by Lawrence Livermore National Laboratory (LLNL) in 1996 indicates that attenuation and degradation of the product in groundwater play major roles in reducing the hydrocarbon contamination to non-detectable levels within several hundred feet of the contaminant source. Moreover, this research indicates that in over 90% of the hydrocarbon contamination cases, groundwater contaminant plumes do not extend more than 250-feet from the source. Solvent/toxic contamination plumes may extend farther from the source.

Based on the discussion above, open fuel, solvent, and toxic leak sites that are within 250-feet in the upgradient direction are considered to have potential risk to the subsurface soils and/or groundwater of the property. No open fuel, solvent, or toxic leak sites were identified within 525-feet of the subject property.

No obvious recognized environmental conditions for the property were noted from the 64 government databases reviewed. No obvious potential off-site sources of contamination were identified within the ASTM-specified search distances (up to one-mile) of the subject property.

### **Sanborn Fire Insurance Maps**

Sanborn fire insurance maps for Suisun City were reviewed. Coverage of the property was not available (EDR Inquiry Number 1747872.3).

### **City Directories**

During the course of this assessment, **KC ENGINEERING COMPANY** utilized Environmental Data Resources, Inc. (EDR) as an information source for historic city directories. Business directories including city, cross reference, and telephone directories were reviewed, if available, at approximate five-year intervals for the years spanning 1961 through 2006. No listings were found for the subject property (EDR Inquiry Number 1747872.6).

### **SITE RECONNAISSANCE**

A site reconnaissance of the subject property was conducted on August 31, 2006 to observe and identify recognized environmental conditions in connection with the subject property. Property photographs are attached as Appendix A. The following observations were made:

The site is located along the north side of Highway 12, between Sunset Avenue and Snow Drive in Suisun City, Solano County, California. The property consists of approximately 8.29-acres of vacant land vegetated with weeds and grasses. A traveling carnival was located on the western portion of the property during the site reconnaissance. Access to the property is made from Highway 12 (Rio Vista Road).

The traveling carnival was in the process of setting up at the time of the site reconnaissance. Several RV's, portable rides, game booths, and portable restrooms were observed on the western portion of the property.

The property does not contain any permanent buildings, and therefore electric, gas, potable water, sewage disposal, and refuse collection services are not currently provided to the property. An underground gas pipeline runs beneath the eastern portion of the property. Utility vaults and water

valves are located along the southern property boundary, adjacent to Highway 12 (Rio Vista Road). Evidence of sumps, hoists, floor drains, storm drains, wells, transformers, basements, elevators, 55-gallon drums of chemicals, aboveground storage tanks (ASTs), and underground storage tanks (USTs) were not observed on the property. Visual evidence of stressed vegetation and stained soils were not observed at the time of the site reconnaissance. Non-hazardous residential trash and debris were observed along the northeast end of the property.

### **SURROUNDING PROPERTIES**

Adjacent to the northwest – U.S. Post Office, located at 325 Merganser Drive.

Adjacent to the northeast – Residences.

Adjacent to the southwest – Chevron Gas Station located at 113 Sunset Avenue, and Valero Gas Station located at 115 Sunset Avenue.

Adjacent to the southeast – Highway 12 (Rio Vista Road), followed by vacant land, restaurants, and Chevron Gas Station.

Adjacent to the west – Sunset Center, located at 108 Sunset Avenue.

Adjacent to the east – Residences.

### **CONCLUSIONS**

This report presents the findings of the Phase I Environmental Site Assessment conducted by **KC ENGINEERING COMPANY** for Assessor's Parcel Numbers 0173-390-160 and 180 located

along the north side of Highway 12, between Sunset Avenue and Snow Drive in Suisun City, Solano County, California. This assessment was performed in general conformance with the scope and limitations of ASTM Practice E 1527-00. The purpose of this assessment was to evaluate the potential for the presence of recognized environmental conditions in connection with the subject property. The scope of services for this evaluation included a reconnaissance of the property and vicinity, a review of the history of the site, and a review of information reasonably obtainable from regulatory agencies.

Historical research indicates that the property consisted of vacant undeveloped land from at least 1898 to the present. The property appears to have been used as a hay field from approximately 1937 to 1970. No evidence was encountered to indicate that the property has historically contained row crops or orchards. The approximate 8.29-acre property currently consists of vacant land that is vegetated with weeds and grasses. A traveling carnival was located on the western portion of the property during the site reconnaissance. Regulated quantities of hazardous materials including 55-gallon drums of chemicals, underground storage tanks, and aboveground storage tanks were not observed to be used, stored, or disposed of on the property during the site reconnaissance.

Oil and gas wells were not identified on the subject property. The subject property was not identified on any of the 64 databases reviewed as a hazardous materials use, storage, disposal, or release site. No obvious potential off-site sources of contamination were identified within the ASTM-specified search distances (up to one mile) of the property on the 64 government databases reviewed.

## SUMMARY

Obvious recognized environmental conditions were not identified for the property during the course of this assessment. No further environmental investigation of the property appears warranted at this time.

## LIMITATIONS AND UNIFORMITY OF CONDITIONS

At the present date, the findings of this report are valid for the property investigated. With the passage of time, significant changes in the conditions of a property can occur due to natural processes or works of man on this or adjacent properties. In addition, legislation or the broadening of knowledge may result in changes in applicable standards. Changes outside of our control may render this report invalid, wholly or partially. Therefore, this report should not be considered valid after a period of one (1) year without our review, nor should it be used, or is it applicable, for any properties other than those investigated.

This report has been prepared for the exclusive use of Suisun Redevelopment Agency, as it pertains to the property described herein. The conclusions in this report are opinions, based on readily available information obtained to date, within the scope of work authorized by Suisun Redevelopment Agency. Use of, or reliance on the information and opinions contained in this report by other parties without first consulting this office is at those parties' own risk.

The results contained in this report are based upon the information acquired during this assessment. **KC ENGINEERING COMPANY** shall not be responsible for conditions or consequences arising from facts and information that were withheld or concealed, or not fully disclosed at the time that this evaluation was performed. **KC ENGINEERING COMPANY** is not responsible for errors or omissions in agency files or databases. It is possible that variations exist beyond or between points

observed during the course of this assessment. Also, changes in observed conditions could occur due to contamination migration, variations in rainfall, temperature, and/or other factors not apparent at the time of the field evaluation. No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a property.

**KC ENGINEERING COMPANY** has strived to prepare this report in accordance with generally accepted geologic/environmental practices in this community. No warranty or guarantee is expressed or implied.

## REFERENCES

Environmental Data Resources, Inc., The EDR Radius Map with GeoCheck, Inquiry Number: 1747872.2s, September 1, 2006.

Environmental Data Resources, Inc., The EDR Aerial Photo Decade Package, Inquiry Number: 1747872.5, September 5, 2006.

Environmental Data Resources, Inc., The EDR City Directory Abstract, Inquiry Number: 1747872.6, September 5, 2006.

Sanborn Fire Insurance Maps for Suisun City, California.

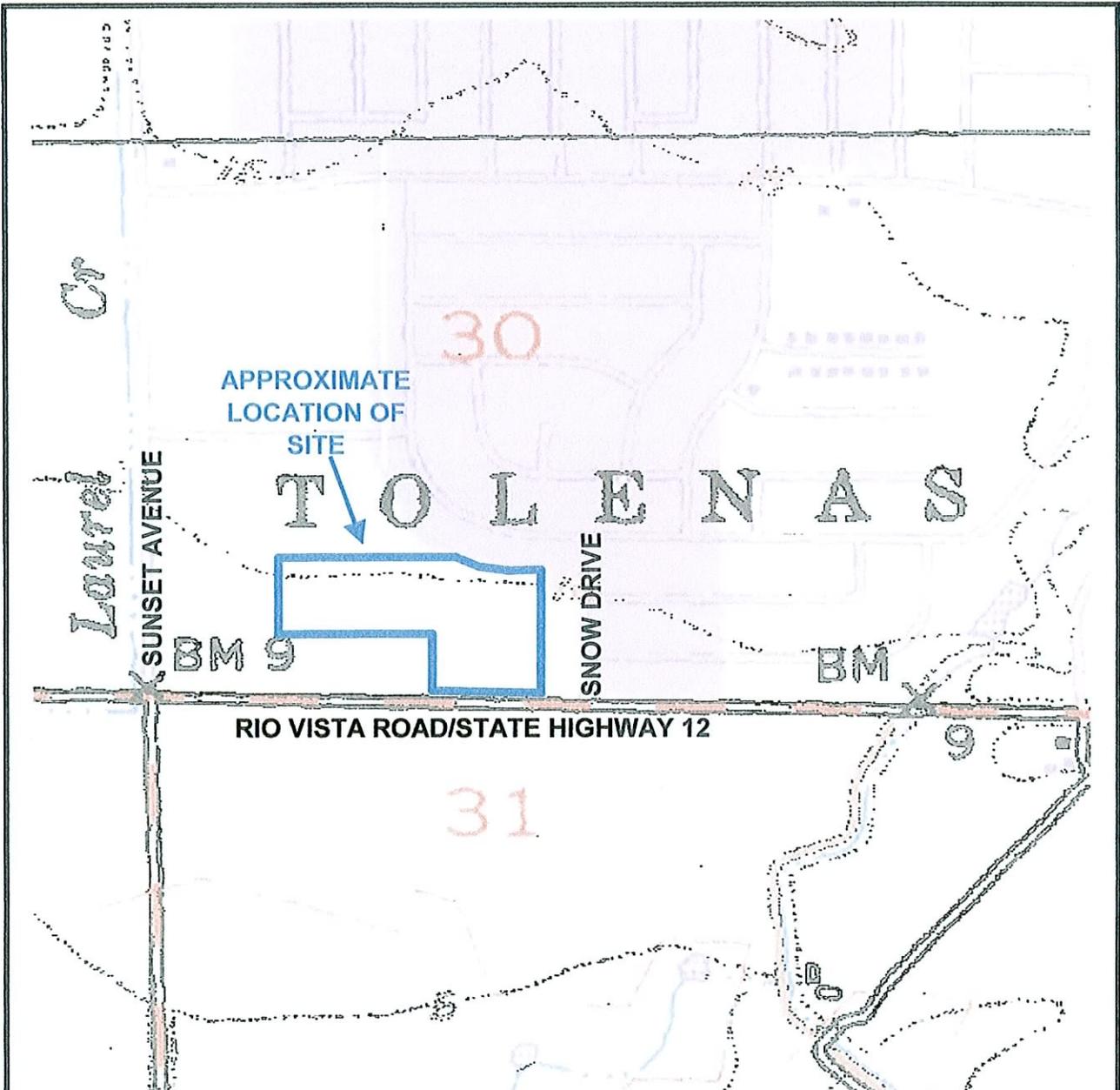
USGS Topographic Maps, Karquines (Carquinez), California 15-minute Quadrangles, 1898 and 1901.

USGS Topographic Map, Napa, California 30-minute Quadrangle, 1902.

USGS Topographic Map, Suisun, California 7.5-minute Quadrangle, 1918.

USGS Topographic Map, Port Chicago, California 15-minute Quadrangle, 1947.

USGS Topographic Maps, Fairfield South, California 7.5-minute Quadrangles, 1950, 1968, and 1980.

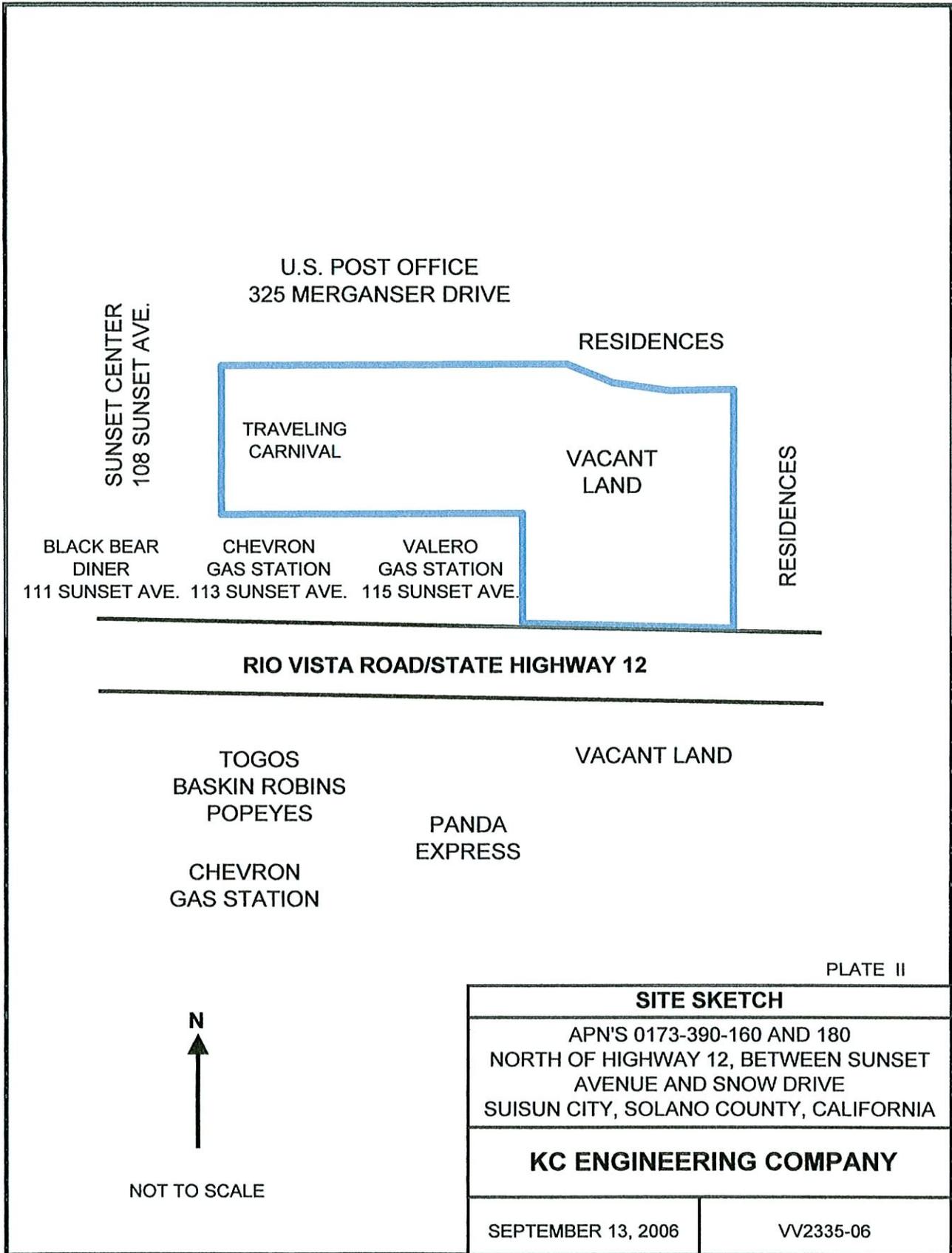


SOURCE: USGS TOPOGRAPHIC MAP, 7.5-MINUTE FAIRFIELD SOUTH, CALIFORNIA QUADRANGLE, 1949, PHOTOREVISED 1980. PLATE I



APPROXIMATE SCALE: 1" = 660'

<b>VICINITY MAP</b>	
APN'S 0173-390-160 AND 180 NORTH OF HIGHWAY 12, BETWEEN SUNSET AVENUE AND SNOW DRIVE SUISUN CITY, SOLANO COUNTY, CALIFORNIA	
<b>KC ENGINEERING COMPANY</b>	
SEPTEMBER 13, 2006	VV2335-06





SOURCE: USGS TERRASERVER, JUNE 16, 1993.

PLATE III



APPROXIMATE SCALE: 1" = 330'

<b>AERIAL PHOTOGRAPH</b>	
APN'S 0173-390-160 AND 180 NORTH OF HIGHWAY 12, BETWEEN SUNSET AVENUE AND SNOW DRIVE SUISUN CITY, SOLANO COUNTY, CALIFORNIA	
<b>KC ENGINEERING COMPANY</b>	
SEPTEMBER 13, 2006	VV2335-06

## **APPENDIX A**

### **Photographs of the Subject Property**



**Photo 1. Northwest-facing view from the southeast corner of the property.**



**Photo 2. View facing southwest from the northeast corner of the property.**



Photo 3. West-facing view from the northeast corner of the property.

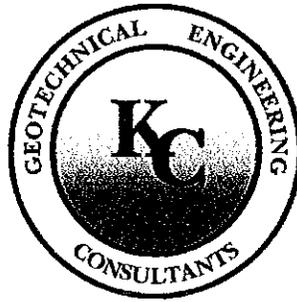


Photo 4. View facing northeast from the southwest corner of the property.

## **APPENDIX B**

### **Qualifications Statement**

865 Cotting Lane, Suite A  
Vacaville, California 95688  
(707) 447-4025, fax 447-4143



8798 Airport Road  
Redding, California 96002  
(530) 222-0832, fax 222-1611

**KC ENGINEERING COMPANY**  
A SUBSIDIARY OF MATERIALS TESTING, INC.

**AMY E. LEE, R.E.A.**  
**Personal Resume**

**Education:** Bachelor of Science in Forestry and Natural Resource Management  
California Polytechnic State University, San Luis Obispo, CA, 1994,  
GPA 3.5

**Registration:** Registered Environmental Assessor I-07387, 1999  
40-Hour OSHA Hazardous Materials Course, 1994  
Yearly 8-Hour OSHA Hazardous Materials Refresher Course

**Experience:**

2000 to Present **KC ENGINEERING COMPANY**  
Registered Environmental Assessor

1994 to 2000 Earth Systems Consultants, Southern California  
Registered Environmental Assessor

Amy Lee has more than twelve years experience in performing all aspects of environmental site assessments, site characterizations, and remediation plans in conformance with ASTM Standards. Mrs. Lee has performed Phase I and Phase II Assessments on commercial, industrial, and residential properties throughout California. Her work includes conducting site reconnaissances, evaluating historical research, reviewing regulatory agency records and government databases, interpreting aerial photographs, sampling soil and groundwater, interpreting laboratory data, and preparing final reports that include recommendations for remediation. Mrs. Lee has authored numerous Closure Reports, Work Plans, and Health and Safety Plans for regulatory agency submittal.

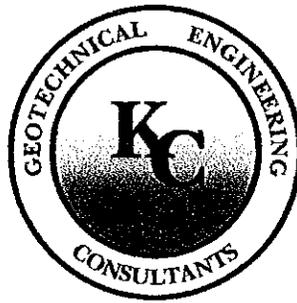
**Representative Experience:**

- *Phase I Environmental Site Assessments.* As a Registered Environmental Assessor, Mrs. Lee specializes in performing Phase I Environmental Site Assessments in conformance with ASTM Standard E1527-00. Phase I Environmental Site Assessments are conducted to identify recognized environmental conditions in connection with a property. The term "recognized environmental conditions" 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.

- *Environmental Audits.* Mrs. Lee has conducted Site Closure Environmental Audits for properties in southern California. Services performed include an initial site reconnaissance to identify areas of potential environmental concern; soil and groundwater sampling and analysis; and preparation of a Site Closure Environmental Audit report.
- *Phase II Environmental Site Assessments.* Mrs. Lee has conducted numerous Phase II Environmental Site Assessments on properties located throughout the state of California. Phase II studies have been performed to determine the presence or absence of soil and groundwater contamination at a property after a recognized environmental condition has been identified during the course of a Phase I Environmental Site Assessment. Mrs. Lee has experience identifying and defining petroleum hydrocarbon, solvents, agricultural chemicals, and metals-based contamination plumes in both the soil and groundwater.
- *Soil Remediation.* Following the identification and delineation of contamination plumes, Mrs. Lee has coordinated and overseen soil remediation activities including remediation by excavation and in-situ bio-remediation.
- *Regulatory Agency Case Closure.* Mrs. Lee has authored several Closure Reports for regulatory agency submittal following successful remediation of contaminated properties. Mrs. Lee also authors Closure Reports for underground storage tank removal activities.

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**KC ENGINEERING COMPANY**  
A SUBSIDIARY OF MATERIALS TESTING, INC.

**DAVID V. CYMANSKI, G.E.**  
**Personal Resume**

- Education:** Bachelor of Science in Civil Engineering  
California State University at Chico, 1990
- Affiliations:** American Society of Civil Engineers  
International Conference of Building Officials  
American Concrete Institute
- Registration:** California Registered Geotechnical Engineer, 2003  
California Registered Civil Engineer, 1994

**Experience:**

1996 to Present

**KC ENGINEERING COMPANY**  
Principal Engineer

Responsible charge of geotechnical and environmental consulting, materials testing and special inspection services in the Vacaville office. Supervises all investigation and design activities including site evaluation, grading control, underground utility placement, pavement design, foundation design, distress analysis, slope stability and earth movements. Supervise company special inspection activities for reinforced and pre-stressed concrete, structural masonry, structural steel and welding.

1993 to 1996

**TERRARESEARCH, INC.,** Project Engineer  
Dublin Office

Responsible charge of geotechnical engineering, site grading and drilling investigation operations. Supervises and performs geotechnical investigations on a variety of projects including commercial, industrial, residential and public works. Supervises engineering technicians and laboratory during grading and foundation operations. Perform special inspections for reinforced and pre-stressed concrete, structural masonry, structural steel and welding.

Engineering analysis and drafting. In addition, checked water levels and chemical contents, rebuilt and maintained valves and pumps and completed various plant duties.

**CITY OF FAIRFIELD, General Engineering Assistant**  
Waterman and Dickson Hill Water Treatment Plants

Summers of  
1986 and 1987

Assisted in the engineering duties of the plant. Drafted various drawings for plant update, aided in the design of a chlorine contact chamber and conducted various test with polymers to improve sludge treatment.

**CITY OF VACAVILLE, Engineering Technician**  
Easterly Waste Water Treatment Plant

1988 to 1989

Responsibility as a Staff Engineer included performing tasks of geotechnical investigations, supervision of field Technicians, soil analysis and design, laboratory work, plan reviews, geotechnical report preparations, drilling operations, and drafting. Perform in-situ ASTM soil and concrete testing, and reinforcement and post-tensioned slab on grade inspections.

**TERRASSEARCH, INC., Staff Engineer**  
Fairfield Office

1989 to 1993

