



GETTLER-RYAN INC.

ENVIRONMENTAL
PROTECTION

97 OCT 29 PM 13:04

TRANSMITTAL

TO: Ms. Madhulla Logan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

DATE: October 28, 1997
PROJ. #: 8148.02
SUBJECT: Additional Soil Sampling at
8 Acre Parcel
East Castro Valley Boulevard
Castro Valley, California

FROM:

Clyde J. Galantine
Project Geologist
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	October 27, 1997	Additional Soil Sampling At 8 Acre Parcel, Castro Valley, California

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- For review and comment Approved as submitted Resubmit __ copies for approval
 As requested Approved as noted Submit __ copies for distribution
 For approval Return for corrections Return __ corrected prints
 For Your Files

COMMENTS:

I have enclosed one copy of the above report for review at your earliest convenience. If you have any questions or comments, please call me at (510) 551-7555.

cc: Roger Gaither, Redwood Christian Schools



GETTLER-RYAN INC.

October 27, 1997

Ms. Madhulla Logan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-9335

**Subject: Additional Soil Sampling at an 8 Acre Parcel
East Castro Valley Boulevard, Castro Valley, California.**

Ms. Logan:

At the request of Redwood Christian Schools, Gettler-Ryan Inc. (GR) conducted an additional soil investigation at the subject site. The purpose of this investigation was to further evaluate whether the subsurface soil at the 8 acre parcel has been impacted by petroleum hydrocarbons as requested in a letter from Alameda County Health Care Services Agency (ACHSCA) dated September 15, 1997. The scope of work included collecting and analyzing soil samples from the upper and lower terrace and preparing a report documenting the work. A work plan documenting this scope of work was prepared by GR and approved by ACHSCA on October 8, 1997.

SITE DESCRIPTION

The subject site (the 8 acre parcel) is a vacant parcel located southwest of the intersection of East Castro Valley Boulevard and Eden Canyon Road (Figure 1). There are currently no existing structures present at the site. A concrete slab is present on the upper terrace, along with debris from a former wooden structure.

A single-wall above-ground steel tank is located at the west end of the subject site (Figure 2). This tank appears to have been used to store water based on the following: 1) the presence of 4-inch diameter slip-type pipe connections with a fiberglass or transite sealant rather than a smaller diameter pipe with threaded joints, 2) the presence of a bolt-down access lid on top of the tank rather than an air-tight threaded lid, and 3) the presence of a pipe welded to the tank after the tank was manufactured. A photo log of the tank is attached. The adjacent four acre parcel contains numerous abandoned wooden structures along the east property boundary. Pertinent site features are shown on Figure 2.

*info
on
tank*

Both parcels have been used for livestock and grazing since 1888. The 8 acre parcel was temporarily used as a construction staging and storage yard for the construction of the 580 Freeway by Caltrans in 1957 (Blymyer Engineers, Inc., Environmental Site Assessment, dated June 29, 1989).

PREVIOUS ENVIRONMENTAL WORK

An environmental site assessment (ESA) was performed for Ken Earp Investment Company by Blymyer Engineers, Inc. (Blymyer) in June 1989. This assessment determined that a steel storage tank was present near the northwest corner of the 8 acre parcel. A concrete slab that may have acted as a fuel dispenser island was also discovered near a building concrete slab on the 8 acre parcel. The Blymyer ESA is attached.

Blymyer technicians collected two soil samples from beneath the storage tank and concrete slab on October 5, 1989. Each sample was analyzed for Total Petroleum Hydrocarbons calculated as gasoline (TPHg) and benzene, toluene, ethylbenzene and xylenes (BTEX). TPHg and BTEX were not detected in either sample (Blymyer Engineers, Inc., Environmental Site Assessment Follow Up, dated October 24, 1989). The Blymyer Follow Up report is attached.

On July 25, 1997, eight soil samples (R-1 through R-8) were collected at the subject site by GR. Four samples were collected from both the upper and lower terraces of the 8 acre parcel (Figure 2). Samples were collected by removing the upper 2 inches of soil from each sample location, then driving a clean brass sample tube into the soil. Each sample was analyzed for TPHg according to EPA Method 5030/GC-FID and a fuel fingerprint for Extractable Total Petroleum Hydrocarbons calculated as diesel (TPHd) and oil (TPHo) according to EPA Method 3550/GC-FID by American Environmental Network (AEN) laboratories.

TPHo was detected in samples R-1 through R-8 at concentrations ranging from 6 to 930 parts per million (ppm). TPHg and TPHd were not detected in any sample.

Upon receipt of the analytical data, additional soil samples were collected. Soil sample R-8A was collected immediately adjacent to the location of R-8 at a depth of 0.5 feet below ground surface (bgs). A shovel and pick were then used to excavate the area around R-8 and R-8A to a depth of approximately 1.75 feet bgs. Soil sample R-8-2 was collected from the bottom of the excavation to a depth of 2 feet bgs. The soil near R-8 ranged from loose soil and roots (surface to 0.20 feet bgs), to a well-compacted silt and clay with varying amounts of gravel (0.20 to 0.75 feet bgs), to silt (0.75 to 2 feet bgs). A third sample, R-9, was collected at a depth of 0.5 feet bgs from a 4 acre parcel located immediately south of the 8 acre parcel (Figure 2).

These three samples were transported to Sequoia Analytical and analyzed for a Fuel Fingerprint by EPA Method 8015. Sample R-8A and R-8-2 contained 15 and 4.1 ppm of an unidentified hydrocarbon between C9 and C40, respectively. R-9 contained 19 ppm of an unidentified hydrocarbon between C9 and C40.

An extract of sample R-8 was transported from AEN to Sequoia Analytical for Fuel Fingerprint analysis. Analysis of the extract by Sequoia detected 880 ppm of an unidentified hydrocarbon between C9 and C40. This concentration can be compared to the 930 ppm TPHo reported by AEN (Gettler-Ryan Inc. Soil Sampling Report, dated August 14, 1997).

FIELD WORK

This scope of work, as agreed upon by ACHSCA, included collecting surface and 2-foot soil samples adjacent to locations where the next two highest concentrations of TPHo were previously detected. If the 2-foot samples contained TPHo at concentrations greater than 500 ppm, than the corresponding surface sample will be analyzed for polynuclear aromatics (PNAs). Soil samples collected during this investigation were delivered under chain-of-custody to Sequoia Analytical (Sequoia) laboratories in Redwood City, California (ELAP #1210). Analytical methods and results are summarized in Table 1. Copies of the laboratory analytical reports and chain-of-custody records are attached.

Soil Sampling

On October 10, 1997, GR collected four soil samples at the subject site. Two surface samples (R-1R and R-6R) were collected adjacent to previous sample locations R-1 and R-6. Two soil samples (R-1-2 and R-6-2) were collected by hand augering down approximately 1.75 feet at locations R-1R and R-6R (Figure 2). All samples were collected by driving a clean brass sample tube into the soil with a hand-driven sampling device fitted with a 2-inch-diameter by 4-inch-long clean brass tube. After removal from the sampling device, the sample tubes were covered on both ends with teflon sheeting, capped, labeled, and placed in a cooler with ice for preservation. A chain-of-custody form was initiated in the field and accompanied the soil samples to Sequoia.

Each sample was analyzed for Total Petroleum Hydrocarbons calculated as hydraulic oil (TPHho) according to EPA Method 8015 (Modified).

An unidentified hydrocarbon with a C16 to C40 carbon chain range quantified against a TPHho standard was detected in sample R-6-2 at a concentration of 20 parts per million (ppm). TPHho was not detected in sample R-1-2. Based on this data, the surface samples R-1R and R-6R were not analyzed for PNAs. Chemical analytical data are summarized in Table 1.

DISCUSSION

Chemical analysis of soil samples collected at the subject site have determined that some of the samples have elevated concentrations (less than 1000 ppm) of petroleum hydrocarbons in the range of oil are present in the near-surface soils. Soil samples collected at approximately 2 feet bgs contained less than 21 ppm petroleum hydrocarbons. These data indicates that the petroleum hydrocarbons have not leached vertically in elevated concentrations. Therefore, it is our conclusion that no further investigations or remediation of this site is warranted and that the ACHSCA should issue a closure letter for the site.

Additional Soil Sampling - 8 Acre Parcel, Castro Valley, California
October 27, 1997

If you should have any questions please call us in Dublin at (510) 551-7555.

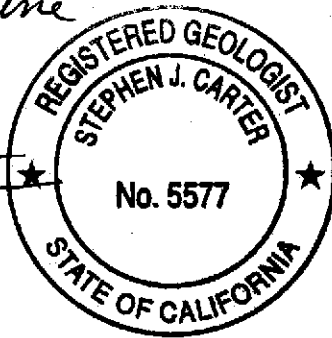
Sincerely,
Gettler-Ryan Inc.

Clyde J. Galantine

Clyde J. Galantine
Project Geologist

Stephen J. Carter

Stephen J. Carter
Senior Geologist
R.G. 5577



Attachments: Table 1. Analytical Results
Figure 1. Vicinity Map
Figure 2. Site Plan/Sample Location Map
Photograph Log
Blymyer Engineers, Inc. Reports
Laboratory Analytical Reports and Chain-of-Custody Records

c: Mr. Roger Gaither, Redwood Christian Schools

Table 1 - Analytical Results of Soil Samples

Redwood Christian Schools
 East Castro Valley Boulevard - 8 Acre Parcel
 Castro Valley, California

Sample Location and ID	Date Collected	Sample Depth (feet)	TPHg (ppm)	TPHd (ppm)	TPHo (ppm)	TPHho (ppm)	Fuel Fingerprint (ppm)
Lower Terrace (8-acre parcel)							
R-1	7/25/97	0.5	<0.2	<5	660	--	--
R-1-2	10/10/97	2	--	--	--	<10	--
R-2	7/25/97	0.5	<0.2	<1	7	--	--
R-3	7/25/97	0.5	<0.2	<1	44	--	--
R-4	7/25/97	0.5	<0.2	<1	10	--	--
Upper Terrace (8-acre parcel)							
R-5	7/25/97	0.5	<0.2	<1	6	--	--
R-6	7/25/97	0.5	<0.2	<5	440	--	--
R-6-2	10/10/97	2	--	--	--	20 ²	--
R-7	7/25/97	0.5	<0.2	<1	260	--	--
R-8	7/25/97	0.5	<0.2	<5	930	--	880 ¹
R-8A	8/8/97	0.5	--	--	--	--	15 ¹
R-8-2	8/8/97	2	--	--	--	--	4.1 ¹
Lower Parcel (4-acre parcel)							
R-9	8/8/97	0.5	--	--	--	--	19 ¹

EXPLANATION:

ppm = parts per million

-- = Not Analyzed

¹ = Unidentified Hydrocarbon C9-C40² = Unidentified Hydrocarbon C16-C40**ANALYTICAL LABORATORY:**

American Environmental Network (ELAP #1172)

Sequoia Analytical (ELAP #1210)

ANALYTICAL METHODS:

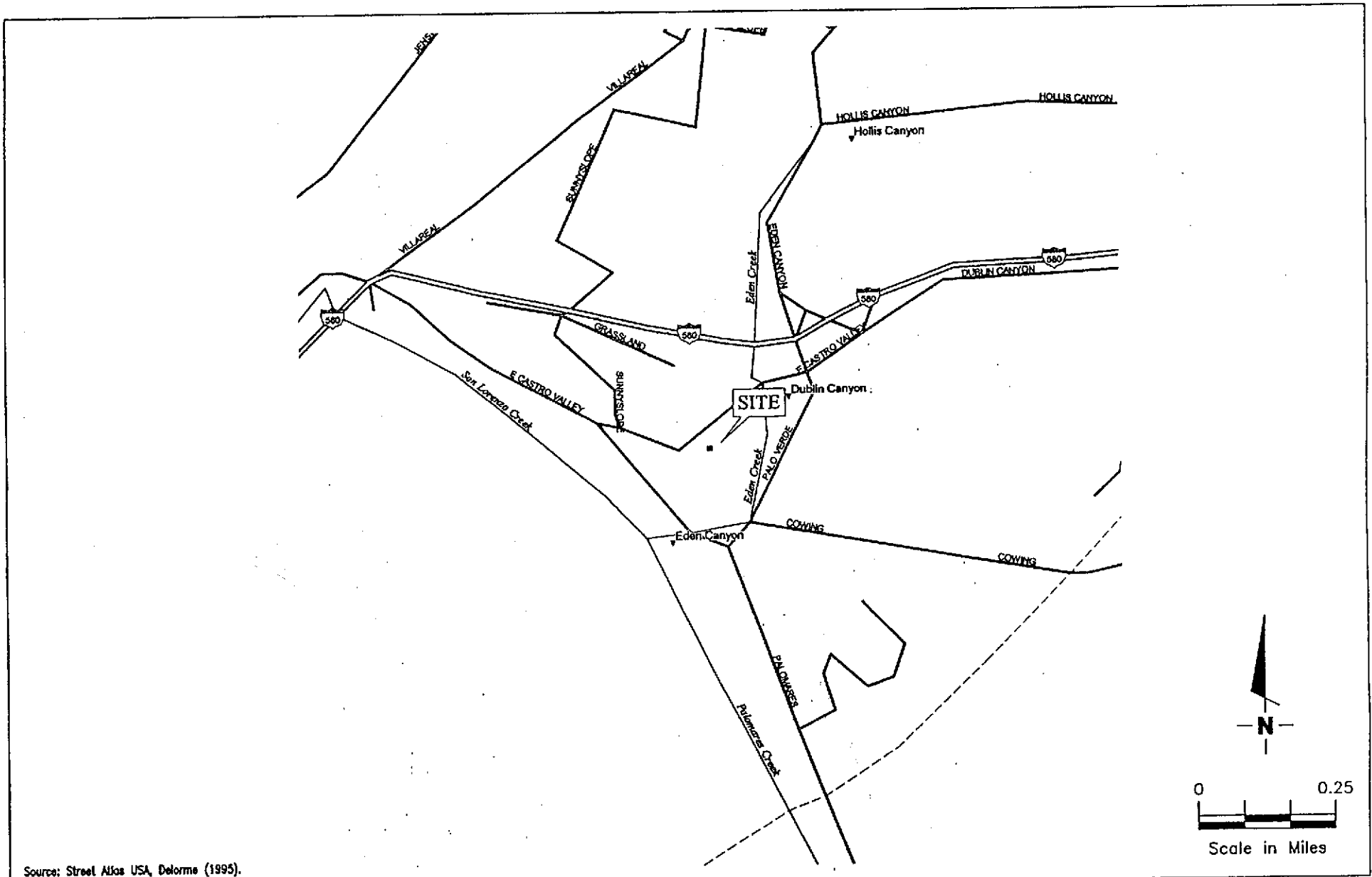
TPHg = Total Petroleum Hydrocarbons calculated as gasoline according to EPA Method 5030/GC-FID (AEN)

TPHd = Extractable Total Petroleum Hydrocarbons calculated as diesel according to EPA Method 3350/GC-FID (AEN)

TPHo = Extractable Total Petroleum Hydrocarbons calculated as oil according to EPA Method 3350/GC-FID (AEN)

TPHho = Extractable Total Petroleum Hydrocarbons calculated as hydraulic oil according to EPA Method 8015 (Modified) (Sequoia)

Fuel Fingerprint = Extractable Total Petroleum Hydrocarbons according to EPA Method 8015 Modified (Sequoia)



Source: Street Atlas USA, Delorme (1995).

FIGURE



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
 Dublin, CA 94568

VICINITY MAP
 Redwood Christian Schools
 East Castro Valley Boulevard – 8 Acre Parcel
 Castro Valley, California

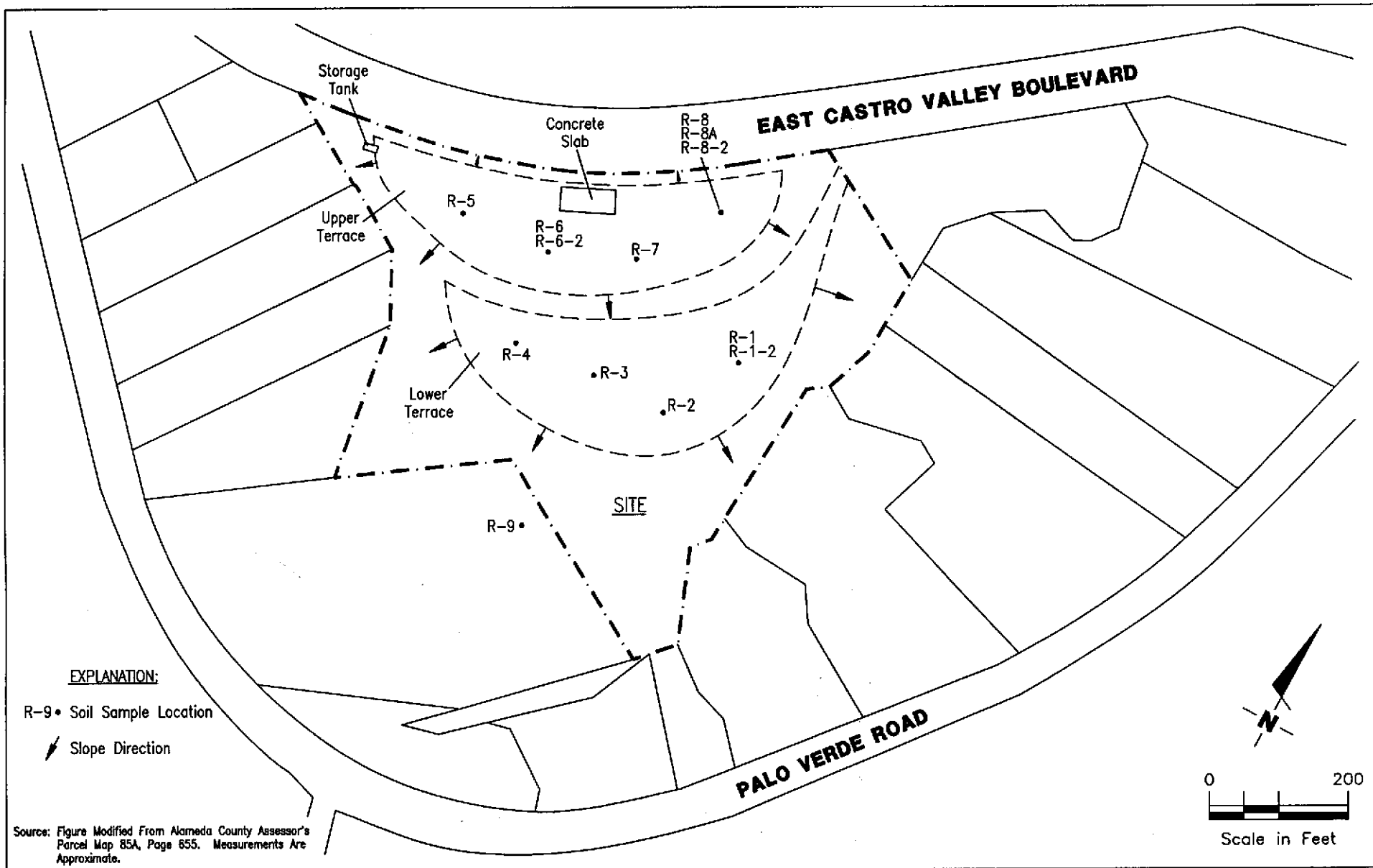
1

JOB NUMBER
 8148

REVIEWED BY

DATE
 07/97

REVISED DATE



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (510) 551-7555
Dublin, CA 94568

SITE PLAN/SAMPLE LOCATION MAP

Redwood Christian Schools
East Castro Valley Boulevard - 8 Acre Parcel
Castro Valley, California

JOB NUMBER
8148

REVIEWED BY

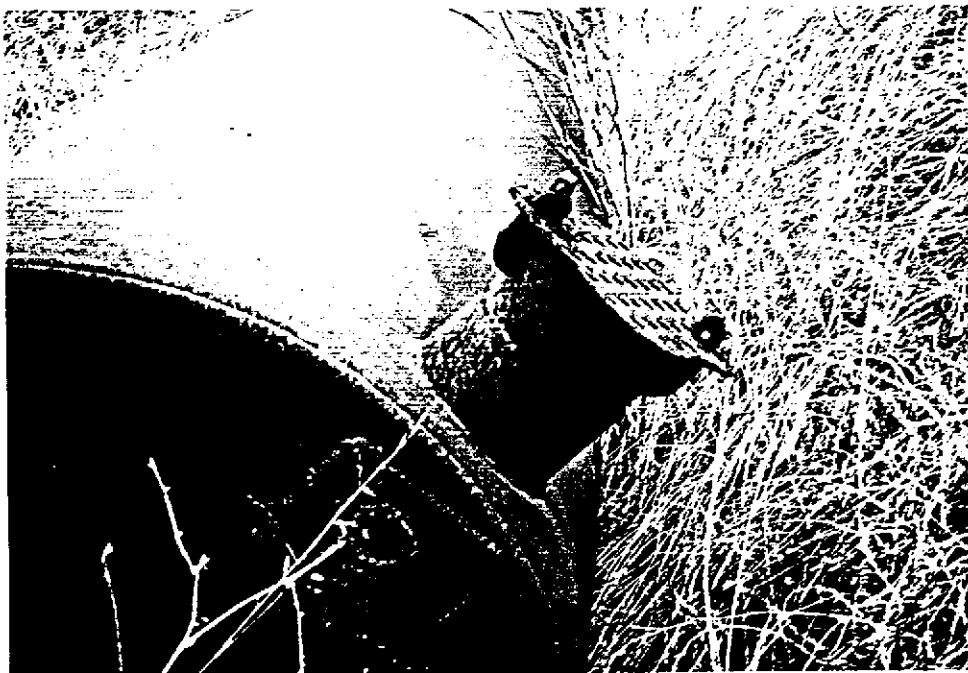
DATE
10/97

REVISED DATE

PHOTOGRAPH LOG



Photograph 1. Looking east and level at storage tank.



Photograph 2. Looking east at west end of tank. The riser with the bolt-down (non-sealable) lid is a fill port. The hole in the end of the tank is where a 2-inch diameter pipe was welded onto the tank.



Photograph 3. Looking at the top of the east end of the tank. The 4-inch cast iron pipe has slip connections on each end of the pipe elbow.



Photograph 4. Looking at the end of the 4-inch diameter pipe. Note the slip connector bell and sealant (white material in pipe opening).

REPORT TO

KEN EARP INVESTMENT COMPANY

FOR THE

ENVIRONMENTAL SITE
ASSESSMENT

OF

6446 PALO VERDE ROAD
AND
EAST CASTRO VALLEY BOULEVARD
CASTRO VALLEY, CALIFORNIA

JUNE 29, 1989

#89474

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- FIGURE 1: Area Map
- FIGURE 2: Site and Surrounding Land Use Map
- FIGURE 3: Aerial Photograph - 1957
- FIGURE 4: Aerial Photograph - 1988

I. SUMMARY

Ken Earp Investment Company retained Blymyer Engineers to conduct an Environmental Site Assessment (ESA) of two properties located at and adjacent to 6446 Palo Verde Road, Castro Valley, California. The ESA consisted of site and surrounding land use inspection, historical background research, and regulatory authority inquiry. The results of the ESA indicate that concerns exist regarding an existing tank on site and one underground tank that may exist. The cited items may have been associated with a temporary staging yard for construction of U.S. Highway 50 in the late 1950's. Because no data exists on closure of the site and because of the nature of construction, further investigation including a tank locating survey, soil sampling and laboratory analyses should be conducted. In addition, several 55-gallon drums and one-gallon containers were located on one of the parcels. These containers should be removed prior to property transfer.

II. INTRODUCTION

Background and Scope of Work

On June 8, 1989, Ken Earp Investment Company retained Blymyer Engineers, Inc. to conduct an environmental site assessment (ESA) of two properties located at and adjacent to 6446 Palo Verde Road in Castro Valley, California. The purpose of the assessment was to determine whether potential environmental liability associated with the parcels would result from purchasing the property.

The ESA is twofold: first, the history of occupancy and the uses of a specific parcel are reconstructed to determine whether any hazardous materials had been used on the property. Second, a physical on-site inspection of the property is conducted which may include a subsurface soil and/or groundwater investigation. Although the ESA is a thorough investigation, the investigatory tools available are not abundant. Because historical information is often not continuous, a hazardous waste-free site history cannot be guaranteed. However, an ESA does substantially reduce the risk of unanticipated discovery.

The scope of work for this ESA consisted of the following:

- 1) Historical research to identify previous occupants and uses of the site to determine whether any hazardous materials had been used on the properties;
- 2) Physical on-site inspection of the property and surrounding land use; and
- 3) Regulatory authority inquiry to determine the existence and status of hazardous materials incidents on or in proximity to the subject site.

This report presents the results of the above-mentioned investigative work.

Site Conditions

The sites are located adjacent to each other in a rural residential area at 6446 Palo Verde Road (Parcel #1) and on East Castro Valley Boulevard (Parcel #2), Castro Valley, California (Figure 1). The buildings on the former parcel consist of small barns and storage sheds. There are no buildings on the second property. The properties are covered with grasses and trees. Horses were stabled on the first property during this investigation. The second parcel was vacant.

III. ENVIRONMENTAL SITE ASSESSMENT

Site Inspection

The environmental site inspection consisted of a visual inspection on June 22, 1989, of both properties including the property grounds and the buildings (Figure 2).

Located on the northwestern portion of the first parcel are five small wooden structures used as barns or as storage sheds. Several 55-gallon drums and one-gallon containers were observed in close proximity to the buildings. Some were also stored in one building. Most drums appeared to be empty. No areas of discolored soil were observed near or under the drums.

A steel storage tank designed for underground use was observed primarily unearthed in the northwestern part of the second property. Two pipes, one from each end of the tank, rose from the tank and led into the soil on each end. It was unclear where these pipes ran. A concrete pad for a former building was also noted. It was unclear what the purpose of this building was. A pad for a possible former fuel island was observed to the southwest of the concrete pad for the building. It was unclear whether the tank for this island was still in the ground.

In addition, several dry wells were noted on both properties. The owner of the property reported that the purpose of the dry wells was to conduct percolation tests in the mid-1970's.

One asbestos transite pipe was observed lying loose on the ground on Parcel #2. The pipe was not sampled.

The properties have perimeter fencing.

Site Surrounding Community Description

The surrounding area of the subject properties is a rural residential area (Figure 3). The property is bound on the east, south and west by large lot residential properties, some including facilities for livestock. On the north the properties are bound by East Castro Valley Boulevard. Land use in the general area of the sites has gradually converted from agricultural to the existing residential uses. Currently, these lands are part of Alameda County, California, east of Castro Valley.

None of the properties surrounding the subject sites appeared to store or dispose of hazardous materials.

Historical Background

The investigation into the historical uses of the property included systematically reviewing records of the following agencies:

1. Hayward Building Department
2. Alameda County Health Care Services
3. Alameda County Assessor's Office
4. California Department of Health Services
5. California Highway Patrol
Hazardous Materials Section
6. Caltrans

The California Department of Health Services was contacted to determine if any toxic chemical or fuel leaks have been reported within a 1/4-mile radius of the subject property. USGS topographical maps for the east Castro Valley area and aerial

photographs dated 1957 and 1988 (Figures 4 & 5) were also examined to determine whether any facilities which may have generated or disposed of hazardous waste were located or had been located within one mile of the subject property. No unauthorized releases of hazardous materials have been reported within a 1/4-mile of the facility.

The records of the Alameda County Assessor's Office were analyzed to establish a chronology of the occupants over the previous 100 years. Records of title exist back to January 1888 when a large parcel including the subject properties was sold to John Marx. Property including the subject site was sold to John E. Garcia in 1899. Parcel #1 has continually been in the Garcia Family since that time. The second parcel was sold to a partnership that included Jeanette M. Cambra, Albert M. Cambra, Bradley and Cecilia Laverne, and Jack and Adeline Tabel. Jeanette Cambra is the current owner of the second parcel. Except for a temporary highway construction facility shown in 1957, the sites have been used only for livestock raising and grazing.

Aerial photographs suggest that the second parcel was used at one time as a staging yard for construction of U.S. Highway 50. The 1957 photograph shows buildings and heavy equipment on site, as well as storage of materials. No records were found indicating exact configuration or use of the site in Caltrans files. The contractor who had leased the site has been out of business for many years.

IV. CONCLUSIONS

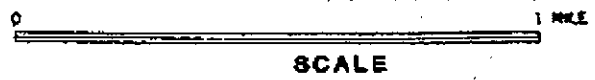
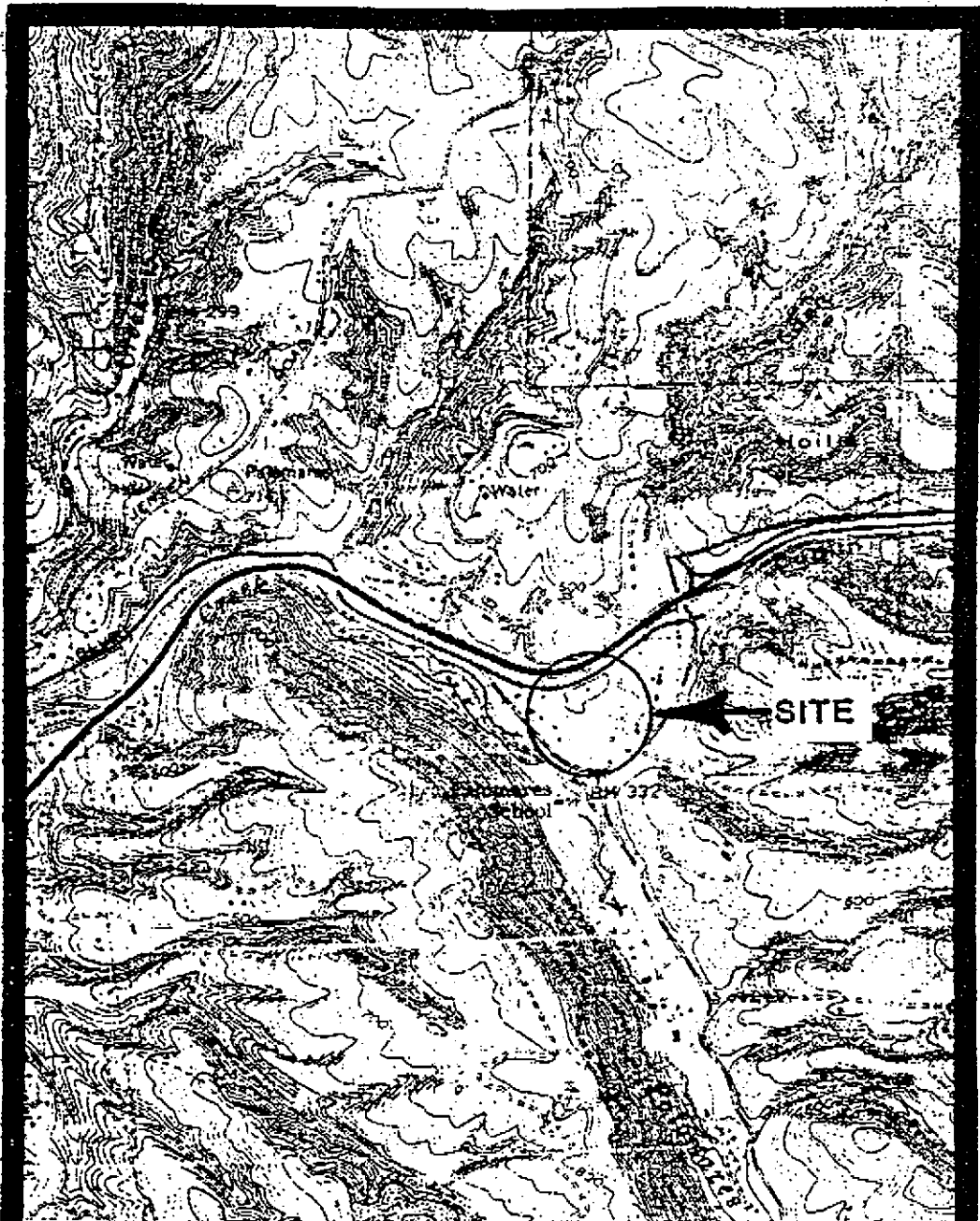
Based upon the above-mentioned observations and analytical results, Blymyer Engineers concludes the following:

- o The site is located in a rural residential area of Castro Valley, California.
- o Parcel #1 apparently has been used for livestock raising since 1900.
- o Parcel #2 was apparently a former staging yard for construction of U.S. Highway 50 to the north of the site.
- o One underground storage tank was observed and a second tank was inferred from surface evidence on site.
- o One transite asbestos pipe was observed lying loose on the surface.
- o Several one-gallon and 55-gallon containers were observed on Parcel #1.
- o No evidence of staining was observed during inspection.

V. RECOMMENDATIONS

#2

Based on BEI's historical and physical investigations, Parcel #1 may contain subsurface contamination in the soils associated with storage tanks. This contamination would appear to relate to the former highway construction yard. Further investigation will need to be completed before a determination can be made regarding the condition of the site. Further investigation should include use of locating equipment to determine whether any underground tanks exist and to determine where any associated piping runs, conducting soils bores and obtaining soil samples in areas where tanks are confirmed or inferred, and the analyses of soil samples for priority pollutants. In addition, all containers on Parcel #1 should be removed prior to accepting the property for purchase.



SCALE

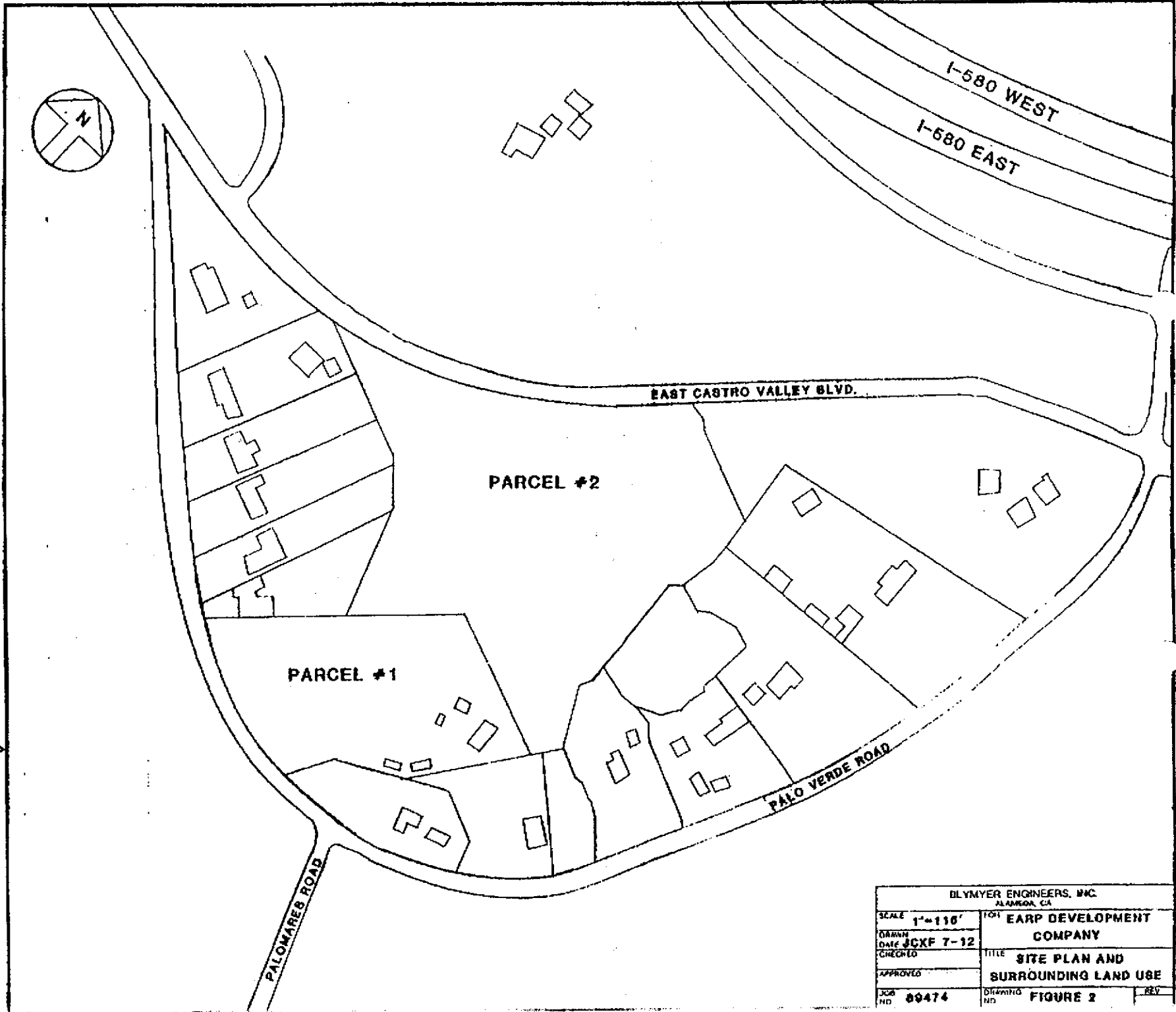
6446 PALO VERDE ROAD AND
 EAST CASTRO VALLEY BOULEVARD
 CASTRO VALLEY, CALIFORNIA

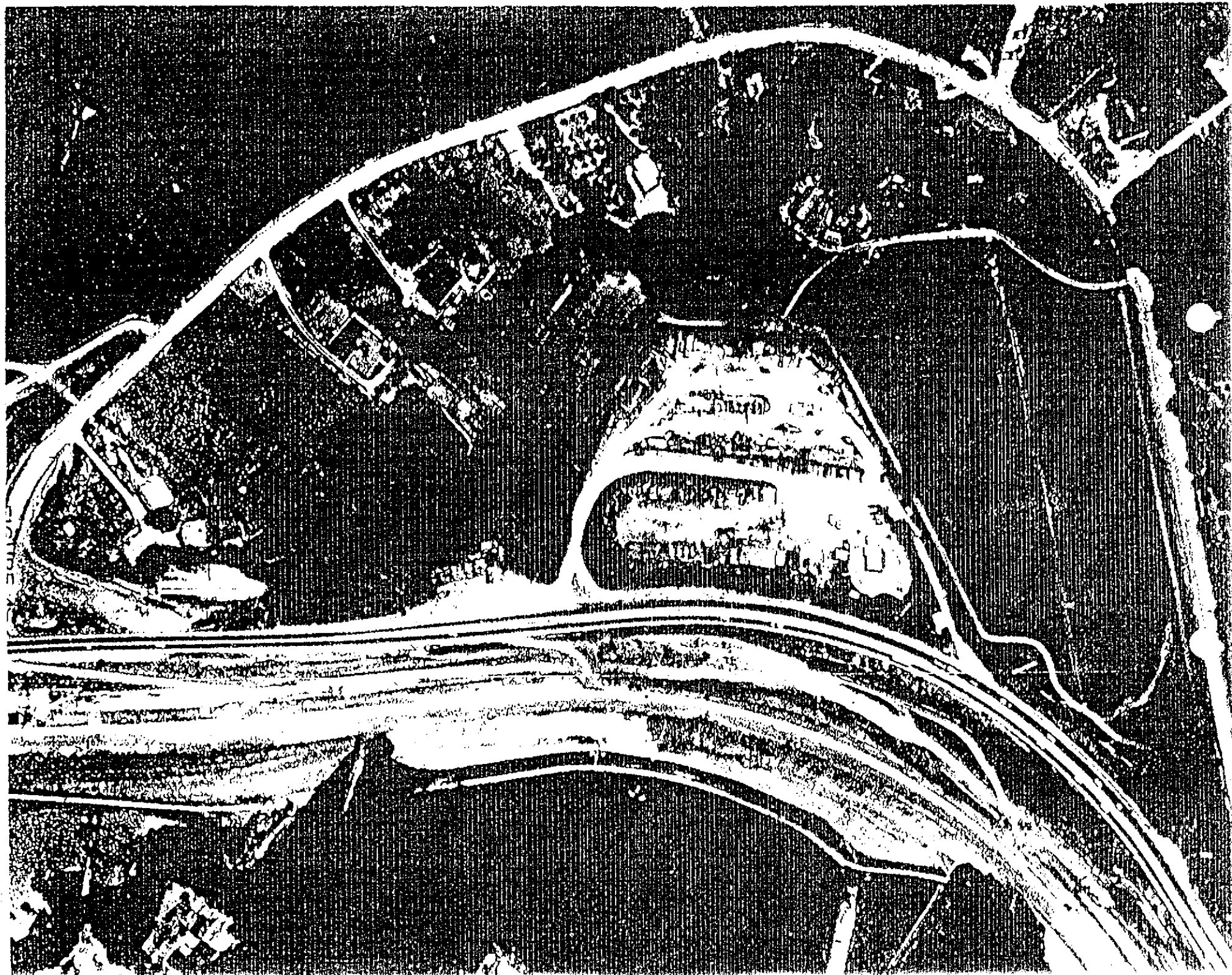


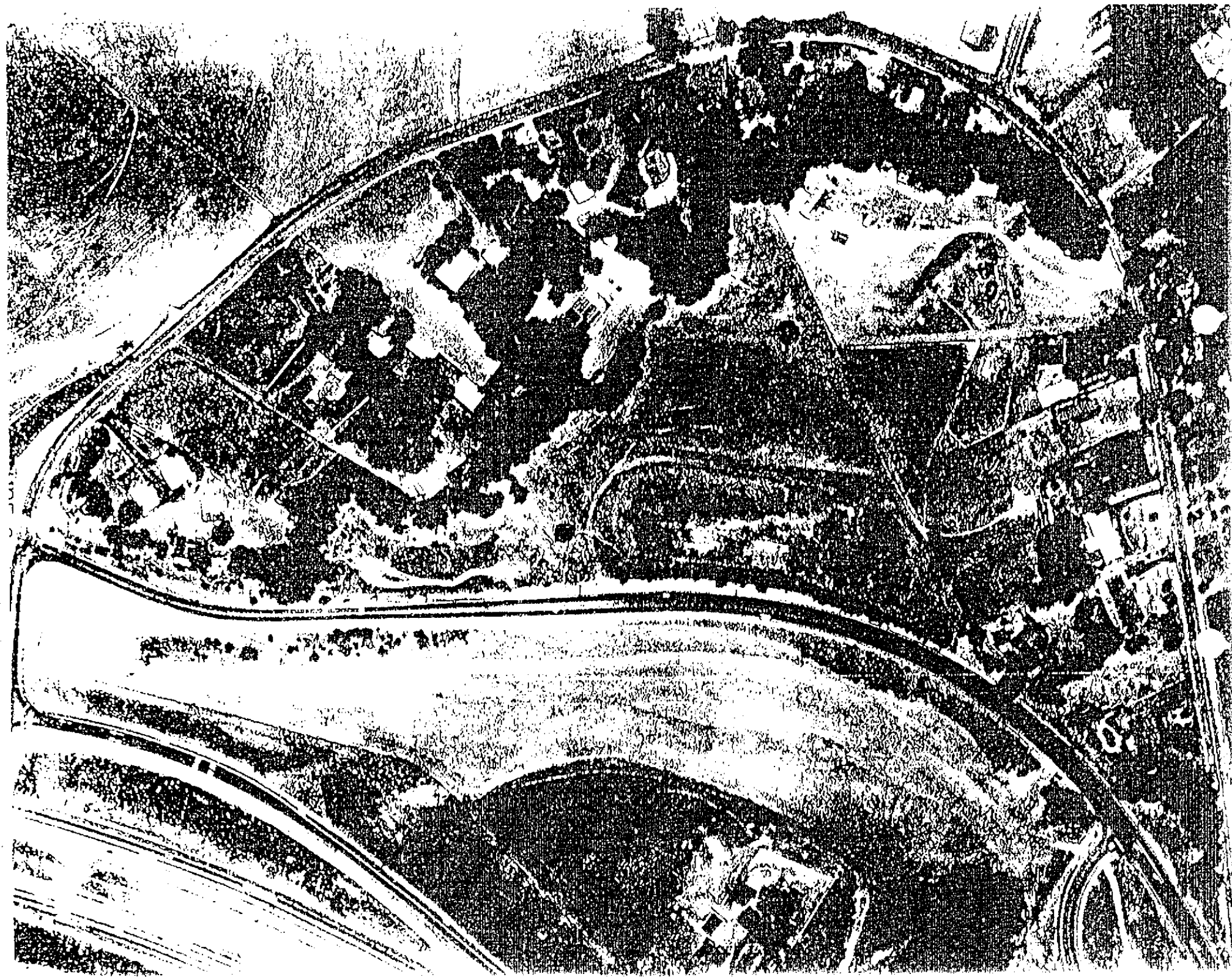
89474

BLMYER ENGINEERS, INC.

REDUCED FROM ORIGINAL







BLYMYER

ENGINEERS, INC.



October 24, 1989
BEI Job No. 89474

Mr. Ken Earp
KEN EARP DEVELOPMENT CO.

[REDACTED]

SUBJECT: CASTRO VALLEY, CALIFORNIA
ENVIRONMENTAL SITE ASSESSMENT
FOLLOW UP

Dear Mr. Earp:

In accordance with your instructions we have conducted a further investigation of the subject site regarding questions raised in our assessment of July 5, 1989.

We have concluded that there are no longer items of environmental concern relative to this site.

We are enclosing copies of our Site Visit Report and the lab results for the sample taken.

Cordially,

BLYMYER ENGINEERS, INC.

Anthony L. Rantz, R.E.A.

ALR/ds

Attachments

(415) 521-3773 • 1829 Clement Avenue, Alameda, California 94501-1395 • FAX (415) 865-2594

P.03 8292745

TO FROM REDWOOD CHRISTIAN SCHOOLS 11:42 AUG-11-1997

BLYMYER ENGINEERS, INC.
1829 CLEMENT AVENUE, ALAMEDA, CA 94501

RECORD OF SITE VISIT

CASTRO VALLEY, TIME ON: TIME OFF:
SITE: CALIFORNIA DATE: 10/5/89 8:00 AM 9:30 PM

CLIENT: KEN EARP NAME: TONY RANTZ

PURPOSE: MONITOR TANK REMOVAL JOB NO. 89474

GENERAL CONTRACTOR/SUPER:

WEATHER: CLEAR TEMP: 65 +/- PHOTOS: NO WIND: NO

SUBCONTRACTORS: MARVIN E. SMITHERMAN, JR. (415/795-8228)
CONSULTING CIVIL ENGINEER
HENRY JUSTIANO-GEOTECH CONSULTANTS

EQUIPMENT ON SITE: ONE BACKHOE AND OPERATOR

COMMENTS:

Before the tank was removed it was determined that there was approximately six inches of water at the bottom of the tank. There was no odor to speak of. When the tank was removed the backhoe took a sample of the soil under the approximate center of the tank. The sample was taken at about 12 inches below grade. Sample was sealed in a brass tube with foil plastic cap and duct tape and transported on ice via chain-of-custody to Trace Environmental Labs.

The second area of concern was at the top of the hill, a concrete slab approximately 4' x 4' with anchor bolts about on 12 inch centers on one end.

The slab was removed. No piping was noted immediately under the slab. The backhoe excavated a hole down to about 4 feet. There was no evidence of a tank or any associated piping. The soil appeared to be native

PAGE 1 OF 2



Gettler Ryan/Geostrategies
6747 Sierra Court Suite G
Dublin, CA 94568

Client Proj. ID: Redwood Christian Schools
Sample Descript: R-1-2
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9710731-01

Sampled: 10/10/97
Received: 10/10/97
Extracted: 10/14/97
Analyzed: 10/18/97
Reported: 10/20/97

Attention: Greg Gurss

QC Batch Number: GC1013970HBPEXD
Instrument ID: GCHP4A

Fuel Fingerprint : Hydraulic Oil

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Extract HC as Hydraulic Oil Chromatogram Pattern:	10	N.D.
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager



Gettler Ryan/Geostrategies
6747 Sierra Court Suite G
Dublin, CA 94568

Client Proj. ID: Redwood Christian Schools
Sample Descript: R-6-2
Matrix: SOLID
Analysis Method: EPA 8015 Mod
Lab Number: 9710731-02

Sampled: 10/10/97
Received: 10/10/97
Extracted: 10/14/97
Analyzed: 10/18/97
Reported: 10/20/97

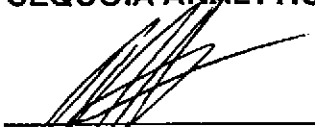
QC Batch Number: GC1013970HBPEXD
Instrument ID: GCHP4A

Fuel Fingerprint : Hydraulic Oil

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
Extract HC as Hydraulic Oil	10	20
Chromatogram Pattern: Unidentified HC		C16-C40
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50 150	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210



Mike Gregory
Project Manager



Gettler Ryan/Geostrategies
6747 Sierra Court, Ste J
Dublin, CA 94568
Attention: Greg Gurss

Client Project ID: Redwood Christian Schools
Matrix: Solid

Work Order #: 9710731 -01, 02

Reported: Oct 23, 1997

QUALITY CONTROL DATA REPORT

Analyte: Diesel

QC Batch#: GC1013970HBPEXD
Analy. Method: EPA 8015M
Prep. Method: EPA 3550

Analyst: B. Sullivan
MS/MSD #: 971045604
Sample Conc.: 6.3
Prepared Date: 10/13/97
Analyzed Date: 10/14/97
Instrument I.D.#: GCHP4
Conc. Spiked: 25 mg/Kg

Result: 28
MS % Recovery: 87

Dup. Result: 8.6
MSD % Recov.: 9.0

RPD: 106
RPD Limit: 0-50

LCS #: BLK101497

Prepared Date: 10/14/97
Analyzed Date: 10/18/97
Instrument I.D.#: GCHP5
Conc. Spiked: 25 mg/Kg

LCS Result: 23
LCS % Recov.: 92

MS/MSD 50-150
LCS 60-140
Control Limits

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9710731.GET <1>



Sequoia
Analytical

680 Chesapeake Drive
404 N. Wiget Lane
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(650) 364-9600
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Gettler Ryan/Geostrategies
6747 Sierra Court Suite G
Dublin, CA 94568
Attention: Greg Gurss

Client Proj. ID: Redwood Christian Schools
Lab Proj. ID: 9710731

Received: 10/10/97
Reported: 10/20/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 5 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL


Mike Gregory
Project Manager



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Company Name: <u>Gettler - Ryan</u>			Project Name: <u>Redwood Christian Schools</u>		
Address: <u>6747 Sierra Ct Suite J</u>			Billing Address (if different):		
City: <u>Dublin</u>	State: <u>CA</u>	Zip Code: <u>94568</u>			
Telephone: <u>(916) 631-1300</u>		FAX #: <u>916 631-1317</u>	P.O. #: <u>8148.02</u>		
Report To: <u>Greg Guss</u>		Sampler: <u>Clyde Galantine</u>	QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours

Analyses Requested: 9710731
 Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH-HO <u>hydrocarbons out</u>					Comments
1. R-1R	10/10/97 7:55	soil	1	tube							Hold
2. R-1-2	8:30		1	"	01	X					5 day TAT
3. R-6R	8:50		1								Hold
4. R-6-2	9:10		1			X					5 day TAT
5.											
6.											
7.											
8.											
9.											
10.											

Relinquished By: <u>Clyde Galantine</u>	Date: <u>10/10/97</u>	Time: <u>14:05</u>	Received By: <u>[Signature]</u>	Date: <u>10/10/97</u>	Time: <u>2:05</u>
Relinquished By: <u>[Signature]</u>	Date: <u>10/10/97</u>	Time: <u>5:15</u>	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab: <u>[Signature]</u>	Date: <u>10/10/97</u>	Time: <u>17:15</u>

Pink - Client
Yellow - Sequoia
White - Sequoia 5