# PARADISO MECHANICAL, INC. GENERAL & PETROLEUM CONTRA

LETTER 📑	TRANSMITTAL
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SAN LEANDRO, CA 9 (510)614-8390 FA CONTRACTORS LICEN	X (510)614-8396	ct. nat 14	C 3: 25 ATTENTION: JULIETT S	HIN
CONTRACTORS DICEN	SE #0//505	J., CO.	RE: VINCENT ROOFIN	
TO ALAMEDA CO	DUNTY ENVIR.	HEALTH	2181 DUNN ROA	VD
1131 HARBO	OR BAY PKWY.		HAYWARD, CA 9	4545
ALAMEDA, C	A 94502			
WE ARE SENDING YOU	☐ Attached ☐	Under Separate Cove	er via <u>US MAIL</u> the f	ollowing items:
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COPY TO				

SIGNED: Shari Thompson

KEI-J94-0804.R1 September 6, 1994

Paradiso Mechanical, Inc. P.O. Box 1836 San Leandro, CA 94577

Attention: Mr. Paul Paradiso

RE: Soil Sampling Report Vincent Roofing Co. 2181 Dunn Road Hayward, California

Dear Mr. Paradiso:

This report summarizes the soil sampling performed by Kaprealian Engineering, Inc. (KEI) at the referenced site. All work was performed in compliance with the guidelines established by the Regional Water Quality Control Board (RWQCB) and the Alameda County Health Care Services (ACHCS) Agency.

The scope of the work performed by KEI consisted of the following:

Coordination with regulatory agencies

Collection of soil samples from the underground fuel storage tank pit and pump island excavation

Collection of one ground water sample from the fuel storage tank pit

Collection of soil samples from the stockpiled soil that had been excavated from the fuel storage tank pit

Delivery of soil and water samples, including proper Chain of Custody documentation, to a certified analytical laboratory for analysis

Technical review and preparation of this report

#### SITE DESCRIPTION AND BACKGROUND

The subject site formerly contained one underground fuel storage tank. A Location Map and a Site Plan are attached to this report. No previous subsurface work performed at the site is known to KEI.

#### FIELD ACTIVITIES

KEI's field work was conducted on August 4, 1994, when one 6,000 gallon underground gasoline storage tank was removed from the site. The tank was made of single-walled steel, and no apparent holes or cracks were observed in the tank. The tank was transported by Erikson, Inc. of Richmond, California, under proper manifest. Ms. Juliet Shin of the ACHCS was present during tank removal and subsequent soil sampling activities.

Water was encountered in the fuel tank pit at a depth of approximately 10.5 feet below grade, thus prohibiting the collection of any soil samples from immediately beneath the tanks. samples, labeled SW1 and SW2, were collected from the north and south sidewalls of the fuel tank pit at depths of approximately 10 feet and 9 feet below grade, respectively. Due to observed soil Contamination in the south sidewall beneath the former pump island (Figure 1), additional excavation was performed in the south sidewall (the entire sidewall was overexcavated approximately 3 Following the additional excavation, one laterally). <additional soil sample (labeled SW2[3]) was collected from the</pre> south sidewall at a depth of about 8.5 feet below grade. undisturbed samples were collected from bulk material excavated by backhoe. The samples were placed in clean, two-inch diameter brass tubes, sealed with aluminum foil, plastic caps and tape, and stored in a cooled ice chest for delivery to a state-certified laboratory. Sample point locations are shown on the attached Figure 1.

Excavated soil from the fuel tank pit was stockpiled on-site. Three discrete soil samples (designated as S1, S2, and S3 on the attached Figure 1) was collected from approximately 60 cubic yards of stockpiled soil that was generated during the removal of the underground fuel storage tank. In addition, one composite soil (designated as Comp A on the attached Figure 1) collected from approximately 20 cubic yards of stockpiled soil that was additionally generated during the overexcavation activities performed in the south sidewall of the fuel tank pit. The samples were collected to comply with local regulatory agency requirements for proper disposal of excavated soils. These soil samples were also collected in two-inch diameter, clean brass tubes, and handled as previously described. The composite soil sample (Comp A) consisted of four individual grab samples collected at various locations and at depths of about 2 feet into the stockpile. four individual samples were subsequently composited as one sample All sample point locations are shown on the attached by the lab. Figure 1.

On August 8, 1994, approximately 350 gallons of ground water were pumped from the fuel tank pit by Erikson, Inc. One water sample,

labeled Water-F, was collected from the fuel tank pit using a clean Teflon bailer. The water sample was decanted into four clean glass VOA vials that were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory. The fuel tank pit excavation was backfilled and compacted with clean imported soil by Paradiso Mechanical of San Leandro, California. Profiling and disposal of all stockpiled soil will be coordinated by Paradiso mechanical.

#### SUBSURFACE CONDITIONS

The subsurface soils exposed in the excavation consisted primarily of sandy silt, except for the south sidewall of the excavation, which consisted primarily of sandy clay. Ground water was encountered in the fuel tank pit excavation at a depth of about 10.5 feet below grade.

#### ANALYTICAL RESULTS

All samples were analyzed by Sequoia Analytical Laboratory in Concord, California and were accompanied by properly executed Chain of Custody documentation. All soil and water samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EPA method 5030/modified 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8020. All samples, except the composite sample Comp A, were also analyzed for total lead.

The results of the soil analyses are summarized in Table 1, and the results of the water analyses are summarized in Table 2. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

#### DISCUSSION AND RECOMMENDATIONS

The analytical results of the soil and water samples collected during the recent removal of the fuel storage tank indicate that the hydrocarbon-contaminated soil in the south sidewall (beneath the former product pump island) has been excavated. The soil sample collected from the south sidewall of the ruel tank pit, following the additional excavation, showed non-detectable concentrations of TPH as gasoline and BTEX. Furthermore, the water sample Water-F, collected from the fuel tank pit (after purging approximately 350 gallons of water) showed non-detectable concentrations of all constituents analyzed. Therefore, based upon the analytical results of all of the samples collected, and based upon visual inspection of the condition of the tank and the excavation performed at the site, KEI recommends no further work associated with the removal of the former fuel storage tank, unless required by the regulatory agencies.

#### **DISTRIBUTION**

A copy of this report should be sent to Ms. Juliet Shin of the ACHCS, and to the RWQCB, San Francisco Bay Region.

#### **LIMITATIONS**

Soil deposits and rock formations may vary in thickness, lithology, saturation, strength and other properties across any site. In addition, environmental changes, either naturally-occurring or artificially-induced, may cause changes in the extent and concentration of any contaminants. Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field work and laboratory analyses. We have analyzed this data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, except that our services have been performed in accordance with generally accepted professional principles and practices existing for such work.

Should you have any questions regarding this report, please feel free to call me at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

Hagop Kevork Staff Engineer

Joel G. Greger, C.E.G. Senior Engineering Geologist

License No. EG 1633 Exp. Date 8/31/96

Robert H. Kezerian Project Manager

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Attachments: Tables 1 & 2

Location Map

Figure 1

Laboratory Analyses

Chain of Justody accumer tanton

KEI-J94-0804.R1 September 6, 1994

## TABLE 2

# SUMMARY OF LABORATORY ANALYSES WATER

	_	TPH as			Ethyl-		Total Lead
<u>Date</u>	<u>Sample</u>	<u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>benzene</u>	<u>Xylenes</u>	(mg/L)
8/08/94	Water-F	ND	ND	ND	ND	ND	ND

ND = Non-detectable.

Results are in micrograms per liter ( $\mu$ g/L), unless otherwise indicated.

KEI-J94-0804.R1 September 6, 1994

TABLE 1
SUMMARY OF LABORATORY ANALYSES
SOIL

<u>Date</u>	<u>Sample</u>	Depth (feet)	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	Ethylbenzene	Xylenes	Total <u>Lead</u>
8/04/94	SW1 SW2* SW2(3)	10.0 9.0 8.5	ND 260 ND	ND ND ND	ND ND ND	ND 0.16 ND	ND 0.57 ND	1.9 6.5 5.5
			STO	OCKPILED	SOIL			
	S1 S2 S3	2.0 2.0 2.0	1.0 ND ND	ND ND ND	0.0082 0.0053 0.0059	0.0052 ND ND	0.027 0.0020 0.015	17 ND 2.4
	Comp A*	N/A	150	ND	ND	0.11	0.35	

<sup>\*</sup> Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.

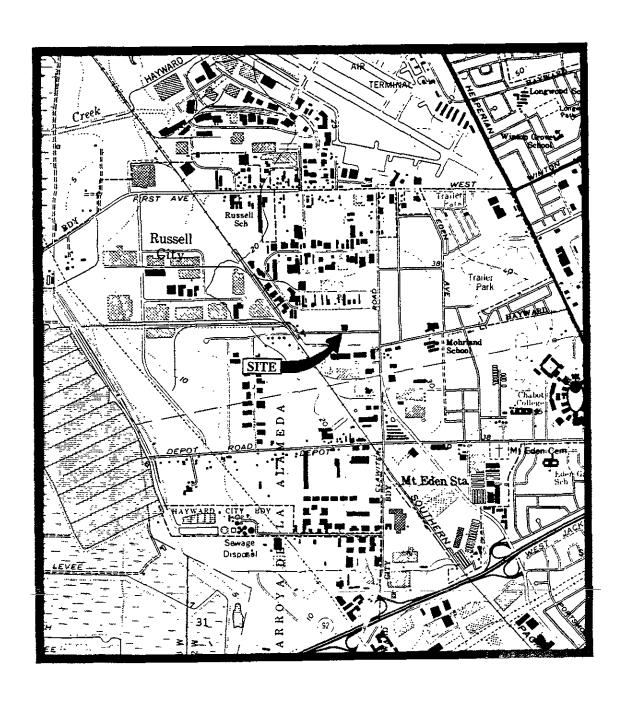
ND = Non-detectable.

N/A = Not applicable.

-- Indicates analysis was not performed.

Results are in milligrams per kilogram (mg/kg), unless otherwise indicated.



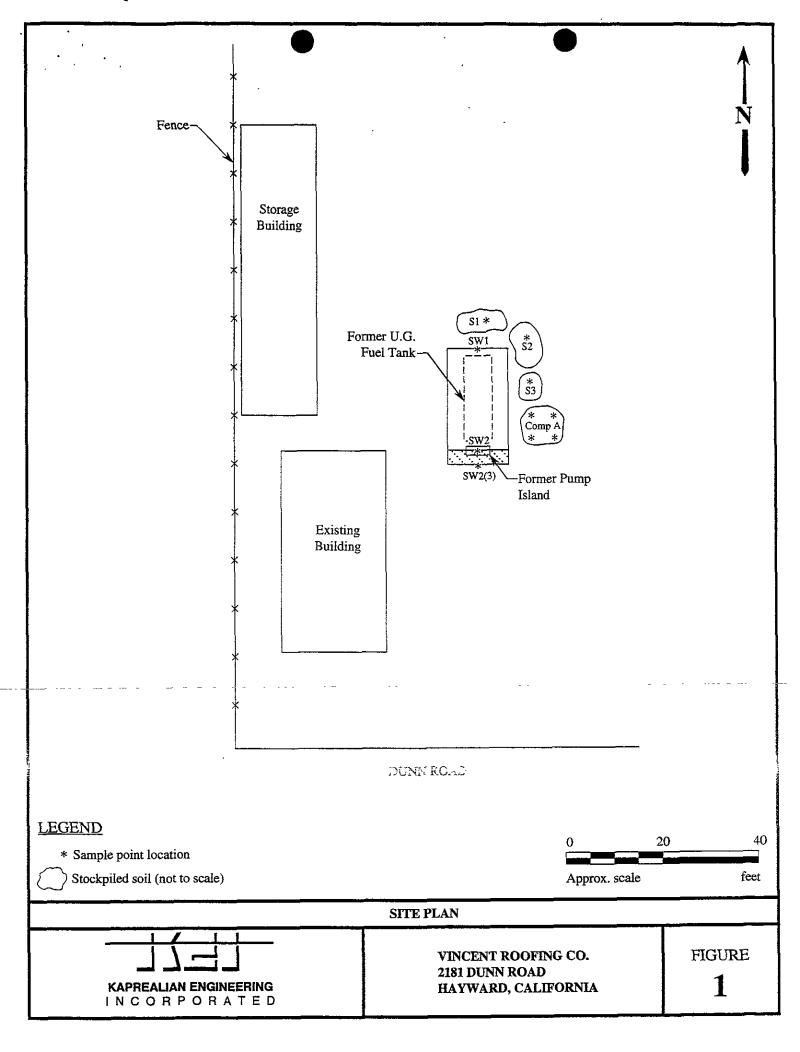


Base modified from 7.5 minute U.S.G.S. Hayward and San Leandro Quadrangle (both photorevised 1980)

0 2000 4000
Approx. scale feet



VINCENT ROOFING CO. 2181 DUNN ROAD HAYWARD, CALIFORNIA LOCATION MAP





1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

(510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID:

Vincent Roofing Co., 2181 Dunn Rd., Hayward Soil

Sampled:

Aug 4, 1994 Aug 4, 19945

Attention: Avo Avedissian

Sample Matrix: Analysis Method: First Sample #:

EPA 5030/8015/8020

408-0283

Received: Reported:

Aug 8, 1994:

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Reporting Sample **Analyte** Limit I.D. 408-0283 mg/kg Comp A\* Purgeable Hydrocarbons 150 1.0 Benzene 0.0050 N.D. Toluene 0.0050 N.D. Ethyl Benzene 0.0050 0.11 **Total Xylenes** 0.0050 0.35 Chromatogram Pattern: Unidentified

Hydrocarbons

>C10

**Quality Control Data** 

Report Limit-Multiplication Factor:

-10

Date Analyzed:

8/6/94

Instrument Identification:

HP-2

Surrogate Recovery, %:

(QC Limits = 70-130%)

105

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Please Note:

\* This sample does not appear to contain gasoline. "Unidentified Hydrocarbons > C10" refers to unidentified peaks in the total extractable petroleum hydrocarbons range.

Afaff B. Kemø Project Mariager

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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID:

Vincent Roofing Co., 2181 Dunn Rd., Hayward

Matrix: Solid

Attention: Avo Avedissian

QC Sample Group: 408-0283 Louise de de la composition della composition de

Aug 8, 1994. Reported:

#### QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl	Xylenes
			Benzene	
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Analyst:	J.F./A.T.	J.F./A.T.	J.F./A.T.	J.F./A.T.
MS/MSD				
Batch#:	4080294	4080294	4080294	4080294
Batcii#1	4000234	4000234	4060234	4060234
Date Prepared:	8/6/94	8/6/94	8/6/94	8/6/94
Date Analyzed:	8/6/94	8/6/94	8/6/94	8/6/94
instrument i.D.#:	HP-2	HP-2	HP-2	HP-2
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg
Cono. opikeu.	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	n.z mg/kg
Matrix Spike				
% Recovery:	100	110	110	114
Matrix Spike				
Duplicate %				
Recovery:	98	105	108	111
i icoorci y.	90	100	100	
Relative %				
Difference:	2.0	4,7	1.8	2.7
Difference.	٠٠٠	441	1.0	2.,,

LCS Batch#:	1LCS080694	1LCS080694	-1LCS080694	-1LCS080694	, -	
Date Prepared:	8/6/94	8/6/94	8/6/94	8/6/94		
Date Analyzed:	8/6/94	8/6/94	8/6/94	8/6/94		
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2		
LCS %						
Recovery:	92	98	100	101		
% Recovery Control Limits:	55-145	47-149	47-155	56-140		

Please Note:

**SEQUOIA ANALYTICAL, #1271** 

an B. Kemp Project Manager

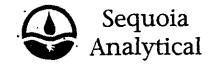
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. 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.

KAPREALIAN ENGINEERING INCORPORATED

# CHAIN OF CUSTODY

SAMPLER 1	-tai	1			.,	S	TE HA	AE & ADDRESS		A	HALYSE	S REQU	ESTED			TURN AROUND TIME:
WITHESSING A	(	<u>d</u>	2	181 NG	NE)	JU	K N	OOFING CO. RD-HAYWARD	5-1	X 回			 			
SAMPLE ID NO.	DATE	TIME	soil	WATER	GRA8	COMP	NO. OF CONT.	SAMPLING LOCATION	TPH	BT.						REMARKS
CompA	8/4/94		V			V	4	STOCKPILE	V	V						4080283,A-D
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reul rante De	19:1/s		0	ate/T	6-2	1	Receiv	ved by: (Signature)	<u> </u>							the laboratory accepting samples
Relinquishe	dby: (SI	aus trick		Date/T	20,54		Receiv	ved by: (Signature)		2. ¥	ill sa	mples	remain	refri	geraje	duntil analyzed?
Retinquishe	d by: (Si	gnature)	1	ate/1	618		· · · · · · · · · · · · · · · · · · ·	ved by: (Signature)		3. Ō 4. ï	id any ere sa	sampl imples	es rec in app	rencia	te con	alysis have head space?
Relinquishe	d by: (S	gnature)		Date/1	ine	e		ved by: (Signature) Olicy 8(1194 7.50 px		KP K	cQ Qe sign	nature		<del>-3`</del> {	àmp	itainers and properly packaged?  (Cutic Surface Date

2401 Stanwell Drive, Suite 400 Concord, California 94520 Tel. 510 602 5100 - Lax 510 697 (84)2





Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

(510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Entropos por el construir de la construir de l

Client Project ID: Sample Matrix:

Vincent Roofing Co., 2181 Dunn Rd., Hayward Soil

Sampled: Received:

Aug 4, 1994 Aug 4, 1994

Attention: Avo Avedissian

Analysis Method:

EPA 5030/8015/8020

Reported: Aug 8, 1994

First Sample #: 408-0289 

#### TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 408-0289 SW1	Sample I.D. 408-0290 SW2*	Sample I.D. 408-0291 SW2 (3)	
Purgeable Hydrocarbons	1.0	N.D.	260	N.D.	
Benzene	0.0050	N.D.	N.D.	N.D.	
Toluene	0.0050	N.D.	N.D.	N.D.	
Ethyl Benzene	0.0050	N.D.	0.16	N.D.	
Total Xylenes	0.0050	N.D.	0.57	N.D.	
Chromatogram Pat	tern:		Unidentified Hydrocarbons >C10		

#### **Quality Control Data**

Report Limit Multiplication Factor:	1.0	-20-	1.0
Date Analyzed:	8/6/94	8/6/94	8/5/94
Instrument Identification:	HP-2	HP-2	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	100	94	<b>63</b>

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Please Note:

\* This sample does not appear to contain gasoline. Unidentified Hydrocarbons > C10" refers to unidentified peaks in the total extractable petroleum hydrocarbons range.

Alar B. Kemp

**Project Manager** 



1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8

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4-9600 (510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 ွိ Attention: Avo Avedissian

Vincent Roofing Co., 2181 Dunn Rd., Hayward Sampled: Aug 4, 1994 Client Project ID: Aug 4, 1994: Received: Sample Descript: Soil Aug 5, 1994 Analysis for: Lead Extracted: First Sample #: 408-0289 Analyzed: Aug 5, 1994 Reported: Aug 8, 1994% 

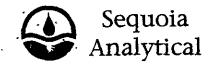
	LABORATO	RY ANALYSIS F	OR:	Lead
Sample Number	Sample Description	<b>Detection Limit</b> mg/kg	Sample Result mg/kg	
408-0289	SW1	1.0	1.9	
408-0290	SW2	1.0	6.5	
408-0291	SW2 (3)	1.0	5.5	

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

**SEQUOIA ANALYTICAL, #1271** 

Alar B. Kemp Project Manager

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sapeake Drive 1900 Bates Avenue, Suite L 819 Stnker Avenue, Suite 8

Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

(510) 686-9600 (916) 921-9600

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Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID:

Vincent Roofing Co., 2181 Dunn Rd., Hayward

Matrix:

Solid

Attention: Avo Avedissian

QC Sample Group: 4080289-291 ÄRRET KARDELLEGE PRESENTE INTERIORISTE DE LEGENERALISTE EN DE LEGENERALISTE DE LEGENERA

Reported:

Aug 8, 1994

#### QUALITY CONTROL DATA REPORT

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead	
			Bongono			
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010	
Analyst:	J.F./A.T.	J.F./A.T.	J.F./A.T.	J.F./A.T.	K.A.	
MS/MSD						
Batch#:	4080294	4080294	4080294	4080294	4080294	
Date Prepared:	8/6/94	8/6/94	8/6/94	8/6/94	8/5/94	
Date Analyzed:	8/6/94	8/6/94	8/6/94	8/6/94	8/5/94	
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	Liberty 100	
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	50 mg/Kg	
Matrix Spike						
% Recovery:	100	110	110	114	95	
Matrix Spike						
Duplicate %						
Recovery:	98	105	108	111	91	
Relative %						
Difference:	2.0	4.7	1.8	2.7	4.3	

LCS Batch#:	1LCS080694	1LCS080694	1LCS080694	1LCS080694	BLK080594
Date Prepared:	8/6/94	8/6/94	8/6/94	8/6/94	8/5/94
Date Analyzed:	8/6/94	8/6/94	8/6/94	8/6/94	8/5/94
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	Liberty 100
LCS %					
Recovery:	92	98	100	101	102
% Recovery	<del></del>	_ <del></del>	<del></del>		
Control Limits:	55-145	47-149	47-155	56-140	75-125

SEQUOIA ANALYTICAL, #1271

Project Madager

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

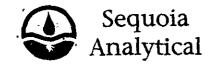
interference, the LCS recovery is to be used to validate the batch.

Please Note:

KAPREALIAN ENGINEERING INCORPORATED

## CHAIN OF CUSTODY

SAMPLER	MPLER HOURS SITE NAME & ADDRESS									HALYSE	S REQU	ESTED		TURN AROUND	TIME:				
	THESSING AGENCY 2181 DUNN RD - HAYWARD						JARD	0	<b>BTXE</b>	L PL									
SAMPLE JD NO.	DATE		TIME	SOIL	WATER	GRAB	СОМР	NO. OF CONT.	SA LO	MPLING CATION		HALL	<b>B</b> T	Total				RE	MARKS
SWI	8/4/	93		V		V		-	Fuel T	ank	Pit	1	u	~				40802	289
Swa				V		V		١				V	V	V				40802	290
Sw2(3)		,		V		V		1				V	V	V				40802	91
	4																		
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15/180/5/	W	SAIRT	n fi	V o	l ate/1	lme		Receiv	ed by: (Signa	ature)									y accepting sample stored in ice?
Relinquish	d 1.1	(Sighi			ale/T	me		Receiv	ed by: (Signa	ature)			2. V	ill sa	nples	remain	refri	for analysis been erated until analy	zed?
Relinquishe	d by:	(Sign	ature)	0	ate/1	me		Receiv	ed by: (Sign	ature)			3. D	id any	sampl	es rece	elved	orJanalysis have h ↓  /→	ead space?
Relinquishe	d by:	(Sign	ature)		oate/T	ime	i		ed by: (Sign				Ry E	TUVE	ŪĹ	in appl	10018	e containers and p	3  2  94 0ate
				1			18%	Kel	Dey 8/4)	94 -	1150 1	ur.		Sign	ature			Title	vate



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Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

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FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Sample Matrix:

Client Project ID: Vincent Roofing Co, 2181 Dunn Rd., Hayward

Soil

Sampled: Received: Aug 4, 1994 Aug 4, 1994®

Attention: Avo Avedissian

Analysis Method: First Sample #:

EPA 5030/8015/8020 408-0292

Reported:

Aug 8, 1994

#### TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 408-0292 S 1	Sample I.D. 408-0293 S 2	Sample I.D. 408-0294 S 3	
Purgeable Hydrocarbons	1.0	1.0	N.D.	N.D.	
Benzene	0.0050	N.D.	N.D.	N.D.	
Toluene	0.0050	0.0082	0.0053	0.0059	
Ethyl Benzene	0.0050	0.0052	N.D.	N.D.	
Total Xylenes	0.0050	0.027	0.0020	0.015	
Chromatogram Pa	ttern:	Gasoline	••		

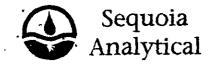
**Quality Control Data** 

Report Limit Multiplication Factor:	1.0	1.0	1.0
Date Analyzed:	8/5/94	8/5/94	8/5/94
Instrument Identification:	HP-4	HP-4	HP-4
Surrogate Recovery, %: (QC Limits = 70-130%)	88	<b>39</b>	33

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

**SEQUOIA ANALYTICAL, #1271** 

Project Manager





Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

(510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Vincent Roofing Co, 2181 Dunn Rd., Hayward Sampled: Sample Descript: Soil Analysis for: Lead First Sample #: 408-0292

Aug 4, 1994 Received: Aug 4, 1994 Aug 5, 19948 Extracted: Analyzed: Aug 5, 1994 Reported: Aug 8, 1994 

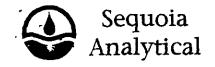
raika maaa

LABORATORY ANALYSIS FOR: Lead											
Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg								
408-0292	S 1	1.0	17								
408-0293	\$ 2	1.0	N.D.								
408-0294	\$3	1.0	2.4								

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

**SEQUOIA ANALYTICAL, #1271** 

Project Manager



1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

(510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID:

Vincent Roofing Co, 2181 Dunn Rd., Hayward

Matrix: Solid

Attention: Avo Avedissian

QC Sample Group: 4080292-294 

Reported:

Aug 8, 1994

#### **QUALITY CONTROL DATA REPORT**

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	Lead	
į			Benzene			
<u> </u>						
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010	
Analyst:	JF/AT	JF/AT	JF/AT	JF/AT	K.A.	
Allalysti	JIT/AT	JE/AI	JF/AI	UF/AI	N.A.	
MS/MSD						
Batch#:	4080294	4080294	4080294	4080294	4080294	
Date Prepared:	8/5/94	8/5/94	8/5/94	8/5/94	8/5/94	
Date Analyzed:	• •		• •		8/5/94	
•	8/5/94	8/5/94	8/5/94	8/5/94		
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	Liberty 100	
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	50 mg/Kg	
Matrix Spike						
	00	95	98	99	95	
% Recovery:	83	90	98	39	95	
Matrix Spike						
Duplicate %						
-	••	20		98	91	•
Recovery:	83	93	95	98	91	
Relative %						
Difference:	0.0	2.1	3.1	1.0	4.3	
Difference.	0.0	£. I	Q. I	1.0	7.0	

LCS Batch#:	2LCS080594	2LC\$080594	2LCS080594	2LCS080594	BLK080594	
Date Prepared:	8/5/94	8/5/94	8/5/94	8/5/94	8/5/94	
Date Analyzed:	8/5/94	8/5/94	8/5/94	8/5/94	8/5/ <del>94</del>	
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4	Liberty 100	
LCS %						
Recovery:	89	99	101	103	102	
% Recovery						
Control Limits:	55-145	47-149	47-155	56-140	75-125	

SEQUOIA ANALYTICAL, #1271

Alara B. Kemp 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.



KAPREALIAN ENGINEERING INCORPORATED

# CHAIN OF CUSTODY

SAMPLER	PLER LIGHT SITE NAME & ADDRESS								,	MALYSE	SREQU	ESTED			TURN AROUND TIME:			
WITHESSING	7,	ou ?	<u> </u>	2	181	シア	T)	Re UN	RD-HE									
SAMPLE ID NO.		DATE	TIME		WATER			NO. Of	SAHP Loca	LING	HAL	8TXE	Total					ŔĖŇÁŘŘS
5_1	8	14/93		V		V		1	STOCKP	ILE	V	1	<u></u>					4080292
52				V		V		1		1	V	V	V					4080293
<b>5</b> 2 53	_			V		V		1			V	V	V					4080294
	-	_¥												,		:		
<u> </u>					<del> </del>											,		
<u> </u>	-					-										Contract of the Contract		
<b></b>			<u>                                     </u>		<del> </del>	-												
			<del> </del>		-						<del></del>							
			1		<del> </del>	-	-											
redicavis	P-67	1/8 18/Jr	an la	<b>)</b> •	  ate/Ti	me	<del> </del>	l Receiv	ed by: (Signatu	ure)	 	4 4	matuali					the laboratory accepting samples
Relinquis		»: (SI	gnadulty	0	ate/Ti	me	Received by: (Signature)					Z. ¥	iill sp	nples	remain	refri	gerate 1 10 5	nalysis been stored in ice?
Relinquis	Relinquished by: (Signature) Date/Time Received by: (Signature)					ice)	Will samples remain refrigerated until analyzed?     Did any samples received for analysis have head space?						alysis have head space?					
Relinquished by: (Signaturé)  Date/Time  Received by: (Signature)  Received by: (Signature)					מוקבן	4. K	rere sa Sign	o Vera	) abspi	je 5	armik.	tainers and properly packaged?  ((mttc)						

2401 Stanwell Drive, Suite 400 Concord, California 91520 Tel: 510:602 5100 - Fax 510:687 0602



1900 Bates Avenue, Suite L. Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

(510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Sample Descript: Analysis for: First Sample #:

Vincent Roofing Co, 2181 Dunn Rd, Hayward Water Lead 408-0519

Sampled: Aug 8, 1994 Received: Aug 8, 1994. Extracted: Aug 10, 1994 Aug 11, 19948 Analyzed: Reported: Aug 16, 1994.

	OR:	Lead		
Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	
408-0519	Water-F	0.050	N.D.	

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

SEQUOIA ANALYTICAL, #1271

Project Manager



1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

(510) 686-9600 (916) 921-9600

FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400

Client Project ID: Vincent Roofing Co, 2181 Dunn Rd, Hayward

Matrix:

Liquid

Concord, CA 94520 Attention: Avo Avedissian

QC Sample Group: 408-0519 Attention: Ava Avedissian — QC admiple droup, +00-0015

Reported:

Aug 22, 1994

#### **QUALITY CONTROL DATA REPORT**

ANAL VICE		T.1.	For a	No. In contract	1	 
ANALYTE	Benzene	Toluene	Ethyl	Xylenes	Lead	
			Benzene			
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 200.7	
Analyst:	J. Fontecha	J. Fontecha	J. Fontecha	J. Fontecha	J. Dinsay	 
MS/MSD						
Batch#:	4080646	4080646	4080646	4080646	4080553	
Date Prepared:	8/16/94	8/16/94	8/16/94	8/16/94	8/10/94	
Date Analyzed:	8/16/94	8/16/94	8/16/94	8/16/94	8/11/94	
Instrument I.D.#:	HP/5	HP/5	HP/5	HP/5	Liberty-100	
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	60 μg/L	1.0 mg/L	
Matrix Spike						
% Recovery:	100	105	110	107	78	
Matrix Spike						
Duplicate %						
Recovery:	100	105	115	112	84	
necovery.	100	100	110	112	O <sup>m</sup>	
Relative %						
Difference:	0.0	0.0	4.4	4.6	7.4	
•••	5.5	4.0	1.,			

LCS Batch#:	3LCS081694	3LCS081694	3LCS081694	3LCS081694	BLK081094	
Date Prepared: Date Analyzed: Instrument I.D.#:	8/16/94 8/16/94 HP/5	8/16/94 8/16/94 HP/5	8/16/94 8/16/94 HP/5	8/16/94 8/16/94 HP/5	8/10/94 8/11/94 Liberty-100	
LCS %	105	115	120	113	92	
% Recovery Control Limits:	71-133	72-128	72-130	71-120	75-125	

**SEQUOIA ANALYTICAL, #1271** 

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.

KAPREALIAN ENGINEERING INCORPORATED

## CHAIN OF CUSTODY

SAMPLER	AIC	<del>,</del>	N	VINCENT ROOFING- CO. HAYWARD, 2181 DUNN Road							ANALYSES REQUESTED							TURN AROUND TIME: WEEK 5 DAYS	
WITHESSING AG	ENGT		146	17 W	1111	$w_{\prime}$	2	181 0	UNP	noau	± X PP								
SAMPLE ID NO.	DATE	TIME	sott	WATER	GRAB	COMP	NO. OF SAMPLING OP CONT. LOCATION				产	$8\tau \times$	Lect	! <del> </del>				REMÂRKS	
Water-F	8/8/94			V	V		4	Fuel	Tank	Pit	V	V	V	!	40	3	19	was collected in Four VOA's.	
																71-3	4	mas conscred	
			<del></del>											<del></del>				in Four VO(1's.	
			_ <del></del>											<del></del>					
								<b> </b>											
									<del></del>				i						
				}							1								
			1	<del>                                     </del>	-	-			<u> </u>										
C COCC	Non	Date/lime Received by: (Signature)						for a	malvet	e •				the laboratory accepting samples analysis been stored in ice?					
Relinquished by (STgnature) Date/lime					Receiv	red by: (S	ignature)		2. Will samples remain refrigerated until analyzed?						ed until analyzed?				
Relinquished by: (Signature) Date/Time				Received by: (Signature)				Did any samples received for analysis have head space?      Were samples in appropriate containers and properly packaged.											
Relinquished by: (Signature) Date/Time			Received by: (Signature) RY Kelley 8/0/94 1:30pm				Kell	١		$\backslash A - \langle \langle$		La Control FIX/94/ Title Date							

2401 Stanwell Drive, Suite 400 Concord, California 94520 Tel. 510 602 5100 | 1.05 510 687 0602

KEI-J94-0804.R1 September 6, 1994

Paradiso Mechanical, Inc. P.O. Box 1836 San Leandro, CA 94577

Attention: Mr. Paul Paradiso

RE: Soil Sampling Report Vincent Roofing Co. 2181 Dunn Road Hayward, California

Dear Mr. Paradiso:

This report summarizes the soil sampling performed by Kaprealian Engineering, Inc. (KEI) at the referenced site. All work was performed in compliance with the guidelines established by the Regional Water Quality Control Board (RWQCB) and the Alameda County Health Care Services (ACHCS) Agency.

The scope of the work performed by KEI consisted of the following:

Coordination with regulatory agencies

Collection of soil samples from the underground fuel storage tank pit and pump island excavation

Collection of one ground water sample from the fuel storage tank pit

Collection of soil samples from the stockpiled soil that had been excavated from the fuel storage tank pit

Delivery of soil and water samples, including proper Chain of Custody documentation, to a certified analytical laboratory for analysis

Technical review and preparation of this report

#### SITE DESCRIPTION AND BACKGROUND

The subject site formerly contained one underground fuel storage tank. A Location Map and a Site Plan are attached to this report. No previous subsurface work performed at the site is known to KEI.

#### FIELD ACTIVITIES

KEI's field work was conducted on August 4, 1994, when one 6,000 gallon underground gasoline storage tank was removed from the site. The tank was made of single-walled steel, and no apparent holes or cracks were observed in the tank. The tank was transported by Erikson, Inc. of Richmond, California, under proper manifest. Ms. Juliet Shin of the ACHCS was present during tank removal and subsequent soil sampling activities.

Water was encountered in the fuel tank pit at a depth of approximately 10.5 feet below grade, thus prohibiting the collection of any soil samples from immediately beneath the tanks. samples, labeled SW1 and SW2, were collected from the north and south sidewalls of the fuel tank pit at depths of approximately 10 feet and 9 feet below grade, respectively. Due to observed soil contamination in the south sidewall beneath the former pump island (Figure 1), additional excavation was performed in the south sidewall (the entire sidewall was overexcavated approximately 3 laterally). Following the additional excavation, additional soil sample (labeled SW2[3]) was collected from the south sidewall at a depth of about 8.5 feet below grade. undisturbed samples were collected from bulk material excavated by backhoe. The samples were placed in clean, two-inch diameter brass tubes, sealed with aluminum foil, plastic caps and tape, and stored in a cooled ice chest for delivery to a state-certified laboratory. Sample point locations are shown on the attached Figure 1.

Excavated soil from the fuel tank pit was stockpiled on-site. Three discrete soil samples (designated as S1, S2, and S3 on the attached Figure 1) was collected from approximately 60 cubic yards of stockpiled soil that was generated during the removal of the underground fuel storage tank. In addition, one composite soil sample (designated as Comp A on the attached Figure 1) was collected from approximately 20 cubic yards of stockpiled soil that was additionally generated during the overexcavation activities performed in the south sidewall of the fuel tank pit. The samples were collected to comply with local regulatory agency requirements for proper disposal of excavated soils. These soil samples were also collected in two-inch diameter, clean brass tubes, and handled as previously described. The composite soil sample (Comp A) consisted of four individual grab samples collected at various locations and at depths of about 2 feet into the stockpile. four individual samples were subsequently composited as one sample by the lab. All sample point locations are shown on the attached Figure 1.

On August 8, 1994, approximately 350 gallons of ground water were pumped from the fuel tank pit by Erikson, Inc. One water sample,

labeled Water-F, was collected from the fuel tank pit using a clean Teflon bailer. The water sample was decanted into four clean glass VOA vials that were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory. The fuel tank pit excavation was backfilled and compacted with clean imported soil by Paradiso Mechanical of San Leandro, California. Profiling and disposal of all stockpiled soil will be coordinated by Paradiso mechanical.

#### SUBSURFACE CONDITIONS

The subsurface soils exposed in the excavation consisted primarily of sandy silt, except for the south sidewall of the excavation, which consisted primarily of sandy clay. Ground water was encountered in the fuel tank pit excavation at a depth of about 10.5 feet below grade.

#### ANALYTICAL RESULTS

All samples were analyzed by Sequoia Analytical Laboratory in Concord, California and were accompanied by properly executed Chain of Custody documentation. All soil and water samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline by EPA method 5030/modified 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8020. All samples, except the composite sample Comp A, were also analyzed for total lead.

The results of the soil analyses are summarized in Table 1, and the results of the water analyses are summarized in Table 2. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

#### DISCUSSION AND RECOMMENDATIONS

The analytical results of the soil and water samples collected during the recent removal of the fuel storage tank indicate that the hydrocarbon-contaminated soil in the south sidewall (beneath the former product pump island) has been excavated. The soil sample collected from the south sidewall of the fuel tank pit, following the additional excavation, showed non-detectable concentrations of TPH as gasoline and BTEX. Furthermore, the water sample Water-F, collected from the fuel tank pit (after purging approximately 350 gallons of water) showed non-detectable concentrations of all constituents analyzed. Therefore, based upon the analytical results of all of the samples collected, and based upon visual inspection of the condition of the tank and the excavation performed at the site, KEI recommends no further work associated with the removal of the former fuel storage tank, unless required by the regulatory agencies.

#### **DISTRIBUTION**

A copy of this report should be sent to Ms. Juliet Shin of the ACHCS, and to the RWQCB, San Francisco Bay Region.

#### LIMITATIONS

Soil deposits and rock formations may vary in thickness, lithology, saturation, strength and other properties across any site. In addition, environmental changes, either naturally-occurring or artificially-induced, may cause changes in the extent and concentration of any contaminants. Our studies assume that the field and laboratory data are reasonably representative of the site as a whole, and assume that subsurface conditions are reasonably conducive to interpolation and extrapolation.

The results of this study are based on the data obtained from the field work and laboratory analyses. We have analyzed this data using what we believe to be currently applicable engineering techniques and principles in the Northern California region. We make no warranty, either expressed or implied, except that our services have been performed in accordance with generally accepted professional principles and practice's existing for such work.

Should you have any questions regarding this report, please feel free to call me at (510) 602-5100.

Sincerely,

Kaprealian Engineering, Inc.

Hagop Kevork Staff Engineer

Joel G. Greger, C.E.G. Senior Engineering Geologist

License No. EG 1633 Exp. Date 8/31/96

Robert H. Kezerian Project Manager

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Attachments: Tables 1 & 2

Location Map

Figure 1

Laboratory Analyses

Chain of Custody documentation

TABLE 1
SUMMARY OF LABORATORY ANALYSES
SOIL

<u>Date</u>	Sample	Depth (feet)	TPH as <u>Gasoline</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethylbenzene</u>	<u>Xylenes</u>	Total <u>Lead</u>
8/04/94	SW1 SW2* SW2(3)	10.0 9.0 8.5	ND 260 ND	ND ND ND	ND ND ND	ND 0.16 ND	ND 0.57 ND	1.9 6.5 5.5
				OCKPILED	SOIL			
	S1 S2 S3	2.0 2.0 2.0	1.0 ND ND	иD иD	0.0082 0.0053 0.0059	0.0052 ND ND	0.027 0.0020 0.015	17 ND 2.4
	Comp A*	N/A	150	ND	ND	0.11	0.35	

<sup>\*</sup> Sequoia Analytical Laboratory reported that the hydrocarbons detected did not appear to be gasoline.

ND = Non-detectable.

N/A = Not applicable.

-- Indicates analysis was not performed.

Results are in milligrams per kilogram (mg/kg), unless otherwise indicated.

KEI-J94-0804.R1 September 6, 1994

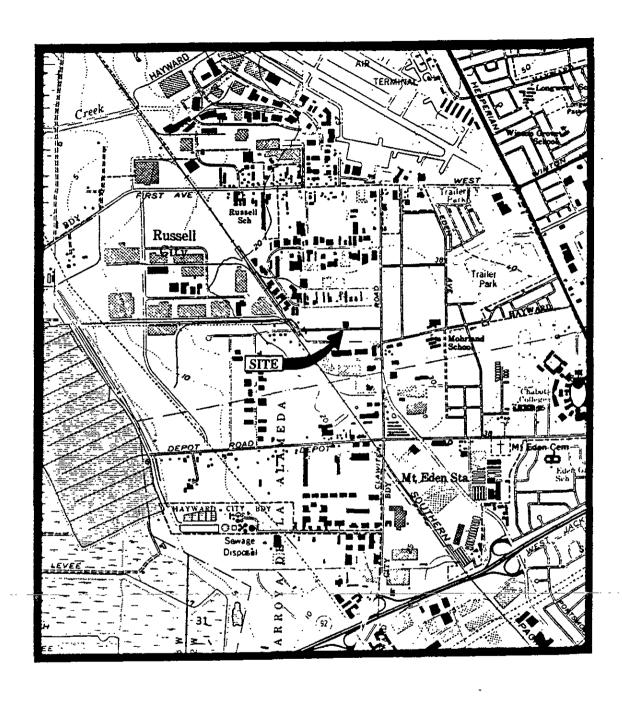
# TABLE 2

# SUMMARY OF LABORATORY ANALYSES WATER

<u>Date</u>	<u>Sample</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	Toluene	Ethyl- benzene	Xylenes	Total Lead (mg/L)
8/08/94	Water-F	ND	ND	ND	ND	ND	ND

ND = Non-detectable.

Results are in micrograms per liter ( $\mu$ g/L), unless otherwise indicated.

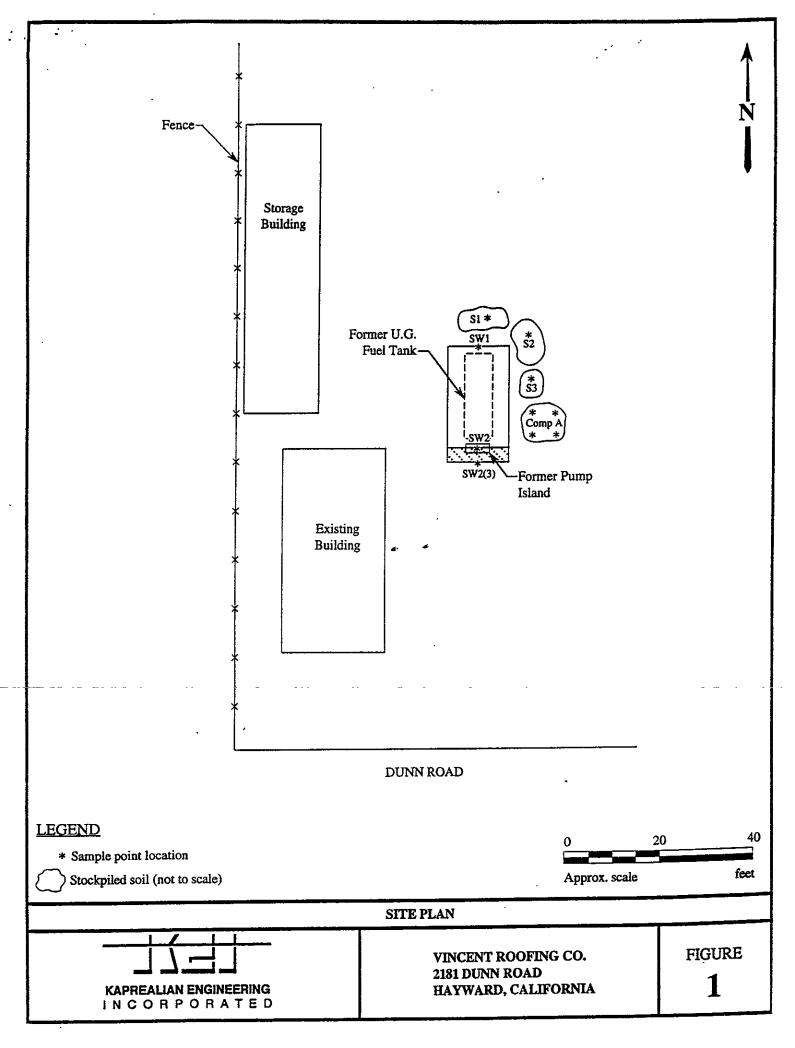


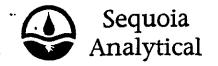
Base modified from 7.5 minute U.S.G.S. Hayward and San Leandro Quadrangle (both photorevised 1980)



VINCENT ROOFING CO. 2181 DUNN ROAD HAYWARD, CALIFORNIA LÓCATION MAP

O 2000 4000
Approx. scale feet





680 Chesapeake Drive 1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8 Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834 (415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID: Sample Matrix:

Vincent Roofing Co., 2181 Dunn Rd., Hayward Soil

Sampled: Received: Aug 4, 1994 Aug 4, 1994

Attention: Avo Avedissian

Analysis Method: First Sample #:

EPA 5030/8015/8020

Reported:

Aug 8, 1994

First Sample #: 408-0283

## TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample i.D. 408-0283 Comp A*	
Purgeable Hydrocarbons	1.0	150	
Benzene	0.0050	N.D.	
Toluene	0.0050	N.D.	
Ethyl Benzene	0.0050	0.11	
Total Xylenes	0.0050	0.35	•
Chromatogram Pat	tern:	Unidentified Hydrocarbons >C10	* *

**Quality Control Data** 

Report Limit Multiplication Factor:	10	
Date Analyzed:	8/6/94	•
Instrument Identification:	HP-2	
Surrogate Recovery, %: (QC Limits = 70-130%)	105	

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.

Analytes reported as N.D. were not detected above the stated reporting limit.

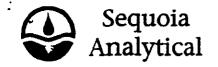
SEQUOIA ANALYTICAL, #1271

Please Note:

\* This sample does not appear to contain gasoline. "Unidentified Hydrocarbons > C10" refers to unidentified peaks in the total extractable petroleum hydrocarbons range.

Alan B. Kemp ) -Project Manager

4080283.KEI <1>



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Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

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FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID: Vincent Roofing Co., 2181 Dunn Rd., Hayward

Solid Matrix:

Attention: Avo Avedissian QC Sample Group: 408-0283 

Reported:

Aug 8, 1994

# **QUALITY CONTROL DATA REPORT**

ANALYTE	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Analyst:	J.F./A.T.	J.F./A.T.	J.F./A.T.	J.F./A.T.	
MS/MSD					
Batch#:	4080294	4080294	4080294	4080294	
Date Prepared:	8/6/94	8/6/94	8/6/94	8/6/94	
Date Analyzed:	8/6/94	8/6/94	8/6/94	8/6/94	
nstrument l.D.#:	HP-2	HP-2	HP-2	HP-2	
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	
Matrix Spike					
% Recovery:	100	110	110	114	
Matrix Spike				ı	
Duplicate %			_		
Recovery:	98	105	108	111	
Relative %					
Difference:	2.0	4.7	1.8	2.7	

LCS Batch#:	1LCS080694	1LCS080694	1LCS080694	_1LCS080694	
Date Prepared:	8/6/94	8/6/94	8/6/94	8/6/94	
Date Analyzed:	8/6/94	8/6/94	8/6/ <del>94</del>	8/6/94	
Instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	
LCS %					
Recovery:	92	98	100	101	•
% Recovery Control Limits:	55-145	47-149	47-155	56-140	

SEQUOIA ANALYTICAL, #1271

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.

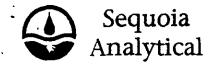
Project Manager

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KAPREALIAN ENGINEERING

# CHAIN OF CUSTODY

SAMPL	ER 1	12.10	10	T			\$1	TE HAM	E & ADDRESS		٨	HALYSE	S REQU	ESTED			TURN AROUND TIME
	SSING AG	tal'	<b>d</b>	21	181	NE)	JT	RI N 1	SOFING CO. RD-HAYWARD	1-G	X 回						
	MPLE ) NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	声	BT					, .	REHARKS
		8/4/94		V			V	4	STOCKPILE	V	V				. <u></u>		4080283,A-D
										-			-				
				<u></u>	_	-	-	-									
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							_	<u> </u>		_		-	<u> </u>	-	<u> </u>	┨—	-
te	daar	109:N	I A	0	Date/1	ime	1	Recei	ved by: (Signature)								the laboratory accepting samples analysis been stored in ice?
Rel	Inquishe	Oby: (s	ignature	#)	Date/1	Ime		Recel	ved by: (Signature)		2.	Will s	amples	remain	refr	igera	ed intil analyzed?
Rel	Inquishe	ed by: (!	ilgnature)		Date/	lime			ved by: (Signature)		3.	Did ar	y samp amples	in ap	propr	ațe co	ontainers and property packaged?
Re	Linquish	ed by: (	Signature)		Date/	lime	f		olicy 84194 7.50 f	<i>ን</i> ሎላ	15.71	crvv	gnatur		_ <del></del>	Sam	of Control Sugger



680 Chesapeake Drive 1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834 (415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Client Project ID: Sample Matrix: Vincent Roofing Co., 2181 Dunn Rd., Hayward Soil

Sampled:

Aug 4, 19948 Aug 4, 1994

Concord, CA 94520 Attention: Avo Avedissian Analysis Method: First Sample #:

EPA 5030/8015/8020 408-0289 Received: Reported:

Aug 8, 1994

### TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 408-0289 SW1	Sample I.D. 408-0290 SW2*	Sample I.D. 408-0291 SW2 (3)	
Purgeable Hydrocarbons	1.0	N.D.	260	N.D.	
Benzene	0.0050	N.D.	N.D.	N.D.	
Toluene	0.0050	N.D.	N.D.	N.D.	
Ethyl Benzene	0.0050	N.D.	0.16	N.D.	
Total Xylenes	0.0050	N.D.	0.57	N.D.	
Chromatogram Patt	tern:		Unidentified Hydrocarbons >C10		

**Quality Control Data** 

							ı
	Report Limit Multiplication Factor:	1.0.	20	1.0		 	
	Date Analyzed:	8/6/94	8/6/94	8/5/94			
	Instrument Identification:	HP-2	HP-2	HP-4			
	Surrogate Recovery, %: (QC Limits = 70-130%)	100	94	88	.•		
ı							ŧ

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Please Note:

\* This sample does not appear to contain gasoline. Unidentified Hydrocarbons > C10" refers to unidentified peaks in the total extractable petroleum hydrocarbons range.

AlaiffB. Kemp/ Project Manager



680 Chesapeake Drive 1900 Bates Avenue, Suite L. 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Concord, CA 94520

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Client Project ID: Sample Descript: Analysis for: First Sample #:

Vincent Roofing Co., 2181 Dunn Rd., Hayward Soil Lead 408-0289

Sampled: Received: Extracted:

Aug 4, 1994 Aug 4, 1994 Aug 5, 1994

Aug 5, 1994 Analyzed: Aug 8, 1994 Reported:

LABORATORY ANALYSIS FOR:

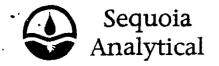
Lead

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
408-0289	SW1	1.0	1.9
408-0290	SW2	1.0	6.5
408-0291	SW2 (3)	1.0	5.5

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

**SEQUOIA ANALYTICAL, #1271** 

Project Manager



680 Chesapeake Drive 1900 Bates Avenue, Suite L. 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Concord, CA 94520

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Starrwell Dr., Ste. 400 Concord, CA 94520

Client Project ID: Vincent Roofing Co., 2181 Dunn Rd., Hayward

Matrix:

Attention: Avo Avedissian

QC Sample Group: 4080289-291

Reported:

Aug 8, 1994

#### **QUALITY CONTROL DATA REPORT**

ANIACIOTE	<del></del>					
ANALYTE	Benzene	Toluene	Ethyl	Xylenes	Lead	
			Benzene			
Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 6010	
	_		=			
Analyst:	J.F./A.T.	J.F./A.T.	J.F./A.T.	J.F./A.T.	K.A.	
MS/MSD						
Batch#:	4080294	4080294	4080294	4080294	4080294	
Daten.	4000254	4000254	4000294	4000254	4000234	
Date Prepared:	8/6/94	8/6/94	8/6/94	8/6/94	8/5/94	
Date Analyzed:	8/6/94	8/6/94	8/6/94	8/6/94	8/5/94	
instrument I.D.#:	HP-2	HP-2	HP-2	HP-2	Liberty 100	
Conc. Spiked:	0.40 mg/kg	0.40 mg/kg	0.40 mg/kg	1.2 mg/kg	50 mg/Kg	
Conc. Spiked.	0. <del>1</del> 0 (119) kg	0. <del>10</del> mg/kg	0.40 mg/kg	i.z ilig/kg	30 1119/1/9	
Matrix Spike						
% Recovery:	100	110	110	114	95	
70 MC00 VOI y .	100			***	<b>55</b>	
Matrix Spike		,				
Duplicate %						
Recovery:	98	105	108	111	91	
neod very.	<b>30</b>	,,,,	100		<b>.</b>	
Relative %						
Difference:	2.0	4.7	1.8	2.7	4.3	
211.0.011001		***	1.0	*****		

LCS Batch#:	1LCS080694	1LCS080694	1LCS080694	1LCS080694	BLK080594
Date Prepared:	8/6/94	8/6/94	8/6/94	8/6/94	8/5/94
Date Analyzed:	8/6/94	8/6/94	8/6/94	8/6/94	8/5/94
instrument i.D.#:	HP-2	HP-2	HP-2	HP-2	Liberty 100
LCS %					
Recovery:	92	98	100	101	102
% Recovery	<u></u> -				
Control Limits:	55-145	47-149	47-155	56-140	75-125

SEQUOIA ANALYTICAL, #1271

Please Note:

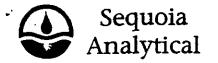
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. 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.

Project Macager

KAPREALIAN ENGINEERING

# CHAIN OF CUSTODY

SAMPLER Howley .			To	VINCENT ROOFING CO. 2181 DUNN RD - HAYWARD							AHALYSE	S REQU	ESTED		,	TURN AROUND TIME:		
WITHESSING A				2	18		Du	hn	RD - HAYW	ARD	1-6	X下	of Pb					
SAMPLE ID NO.		ΤE	TIME	sall	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION		立	<b>B</b> T	Total					REMARKS
SWI	8/1	1/93		~		V		1	Fuel Tank	Pit	V	V	V					4080289
SW2				V		V		1			V	V	V					4080290
5w2(3)				V		V		1	V		V	V	V					4080291
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			Δ1	<b>1</b>				;										
72 78Wah		枞	RPMAR	W.	7\est	me		Receiv	ved by: (Signature)		١	for	anal ve i	e •				the laboratory accepting samples
Relinquish	10 1	(5)	ghatutev		Date/T	ime	_	Réceiv	ved by: (Signature)			1. 2.	Have al	mples	remair	S refr	o tor a	enatysis been stored in ice?
Relinquish	ed by:	(\$	ignature)	1	Date/I	lme	$\top$	Receiv	ved by: (Signature)					-			NI.	natysis have head space?
Relinquish	ed by	: (\$	ignature)	1	Date/I	ime	P		ved by: (Signature)	160 4		r.j	<b>Kruve</b>	imples	in •pp	Stopr li	de l	triction Sicilar



680 Chesapeake Drive 1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Concord, CA 94520

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Client Project ID: Sample Matrix:

Vincent Roofing Co, 2181 Dunn Rd., Hayward Soil

Sampled: Received:

Aug 4, 1994 Aug 4, 1994

Attention: Avo Avedissian

Analysis Method: First Sample #:

EPA 5030/8015/8020

Reported:

408-0292

Aug 8, 1994

#### TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit mg/kg	Sample I.D. 408-0292 S 1	Sample I.D. 408-0293 S 2	Sample I.D. 408-0294 S 3	
Purgeable Hydrocarbons	1.0	1.0	N.D.	N.D.	
Benzene	0.0050	N.D.	N.D.	N.D.	•
Toluene	0.0050	0.0082	0.0053	0.0059	
Ethyl Benzene	0.0050	0.0052	N.D.	N.D.	
Total Xylenes	0.0050	0.027	0.0020	0.015	
Chromatogram Pat	tern:	Gasoline			

**Quality Control Data** 

Report Limit Multiplication Factor:	1.0	1.0.	. 1.0.	
Date Analyzed:	8/5/94	8/5/94	8/5/94	
Instrument Identification:	HP-4	HP-4	HP-4	
Surrogate Recovery, %: (QC Limits = 70-130%)	88	89	88	,.

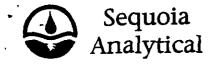
Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Project Manager

286-0435

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680 Chesapeake Drive 1900 Bates Avenue, Suite L. Concord, CA 94520 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063

Lead

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian

Vincent Roofing Co, 2181 Dunn Rd., Hayward Client Project ID: Sample Descript: Soil Analysis for: Lead First Sample #: 408-0292

Sampled: Received: Extracted: Analyzed:

Aug 4, 1994 Aug 4, 1994 Aug 5, 1994

Aug 5, 1994 Aug 8, 1994 Reported:

#### LABORATORY ANALYSIS FOR:

Sample Number	Sample Description	Detection Limit mg/kg	Sample Result mg/kg
408-0292	\$1	1.0	17
408-0293	\$ 2	1.0	N.D.
408-0294	<b>S</b> 3	1.0	2.4

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

SEQUOIA ANALYTICAL, #1271

Project Manager

4080292.KEI <2>



680 Chesapeake Drive 1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8 Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834 (415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Client Project ID: Matrix:

Vincent Roofing Co, 2181 Dunn Rd., Hayward Solid

Attention: Avo Avedissian

QC Sample Group: 4080292-294

Reported:

Aug 8, 1994

### **QUALITY CONTROL DATA REPORT**

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylanes	Lead	
Method: Analyst:	EPA 8020 JF/AT	EPA 8020 JF/AT	EPA 8020 JF/AT	EPA 8020 JF/AT	EPA 6010 K.A.	
MS/MSD Batch#:	4080294	4080294	4080294	4080294	4080294	
Date Prepared: Date Analyzed: Instrument I.D.#: Conc. Spiked:	8/5/94 8/5/94 HP-4 0.40 mg/kg	8/5/94 8/5/94 HP-4 0.40 mg/kg	8/5/94 8/5/94 HP-4 0.40 mg/kg	8/5/94 8/5/94 HP-4 1.2 mg/kg	8/5/94 8/5/94 Liberty 100 50 mg/Kg	
Matrix Spike % Recovery:	83	95	98	99	95	
Matrix Spike Duplicate % Recovery:	83	93	95 95	98	91	
Relative % Difference:	0.0	2.1	3.1	1.0	4.3	

LCS Batch#:	2LCS080594		2LCS080594	2LCS080594	2LCS080594	BLK080594
Date Prepared:	8/5/94		8/5/94	8/5/94	8/5/94	8/5/94
Date Analyzed:	8/5/94	•	8/5/94	8/5/94	8/5/94	8/5/94
Instrument I.D.#:	HP-4		HP-4	HP-4	HP-4	Liberty 100
LCS %						
Recovery:	89		99	101	103	102
% Recovery						-
Control Limits:	55-145		47-149	47-155	56-140	75-125

SEQUOIA ANALYTICAL, #1271

Alan B. Kemp 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.

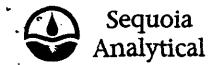
4080292.KEI <3>

KAPREALIAN ENGINEERING

# CHAIN OF CUSTODY

SAMPLER	lai's		1	1		SI	TE HAN	HE & ADDRESS		ANALYSES REQUESTED						TURN AROUND TUNE:
WITHESSING AC	GENCY	J		181		u )u	n.c NN	RD_HAYWARD	(d)	lШ	(Pb				 	
SÄMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	СОМР	HO. OF CONT.	SAMPLING LOCATION	Tal	8TXE	Total	,			,	REHÁRKS
5_1	8/4/93		V		V			STOCKPILE	V		1					4080292
52			V		<b>V</b>		1		V	1	1			<u> </u>		4080293
<b>5</b> 2 5.3			V		V		1	V	V	V	V					4080294
								ų								
		·								_						
11	مدا	111										:	<u> </u>			
HOU	MXX P	WITH	y °	ate/Ii	me		Receiv	ed by: (Signature)		for	analysi	5:				the laboratory accepting samples analysis been stored in ice?
Ret Inquisaed	Wby: ' (ST	gnatuAty	٥	ate/1i	me		Receiv	ed by: (Signature)		2.	Will sa	mptes	remain	i reer	gerati Ue	analysis been stored in ice?
Relinquished	by: (Si	gnature)	D	ate/fi	me		Receiv	ed by: (Signature)		Į.		ļ.		M	A a	nalysis have head space?
Relinquished	d by: (Si	gnatůré)	D	ate/fi	me	1 _		ed by: (signature) el Cay 8/4/94 1:50	4. Vere samples in appropriate containers and properly packs  (PS)  (PS)  (Signature)  (Signature)  (Signature)  (Signature)							

2401 Stanwell Drive, Suite 400 Concord, California 94520 Tel: 510:602.5100 Fax: \$10.697.0692



680 Chesapeake Drive 1900 Bates Avenue, Suite L 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Concord, CA 94520 Sacramento, CA 95834

Vincent Roofing Co, 2181 Dunn Rd, Hayward

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520 Attention: Avo Avedissian Client Project ID: Sample Descript: Analysis for: First Sample #:

Water Lead 408-0519 Sampled: Aug 8, 1994 Received: Aug 8, 1994 Extracted: Aug 10, 1994 Analyzed: Aug 11, 1994 Reported: Aug 16, 1994

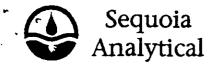
	LABORATO	Lead		
Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	
408-0519	Water-F	0.050	N.D.	

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

SEQUOIA ANALYTICAL, #1271

Aleri B. Kemp Project Manager

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680 Chesapeake Drive 1900 Bates Avenue, Suite L. Concord, CA 94520 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Sacramento, CA 95834

(415) 364-9600 (510) 686-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 686-9689 FAX (916) 921-0100

Kaprealian Engineering, Inc. 2401 Stanwell Dr., Ste. 400 Concord, CA 94520

Vincent Roofing Co, 2181 Dunn Rd, Hayward Client Project ID:

Matrix: Liquid

Attention: Avo Avedissian 

QC Sample Group: 408-0519

Reported: Aug 22, 1994

#### **QUALITY CONTROL DATA REPORT**

ANALYTE	Benzene	Toluene	Ethyl Benzene	Xylenes	Lead	
Method: Analyst:	EPA 8020 J. Fontecha	EPA 8020 J. Fontecha	EPA 8020 J. Fontecha	EPA 8020 J. Fontecha	EPA 200.7 J. Dinsay	
MS/MSD Batch#:	4080646	4080646	4080646	4080646	4080553	
Date Prepared: Date Analyzed: Instrument I.D.#: Conc. Spiked:	8/16/94 8/16/94 HP/5 20 µg/L	8/16/94 8/16/94 HP/5 20 µg/L	8/16/94 8/16/94 HP/5 20 µg/L	8/16/94 8/16/94 HP/5 60 µg/L	8/10/94 8/11/94 Liberty-100 1.0 mg/L	
Matrix Spike % Recovery:	100	105	110	107	78	
Matrix Spike Duplicate % Recovery:	100	105	115 <sup>-</sup>	112	84	
Relative % Difference:	0.0	0.0	4.4	4.6	7.4	

LCS-Batch#:	3LCS081694	3LCS081694	- 3 <del>LC</del> S081694	3LCS081694	BLK081094	-		
Date Prepared:	8/16/94	8/16/94	8/16/94	8/16/94	8/10/94			
Date Analyzed:	8/16/94 ·	8/16/ <del>94</del>	8/16/94	8/16/94	8/11/94			
Instrument I.D.#:	HP/5	HP/5	HP/5	HP/5	Liberty-100			
LCS %								
Recovery:	105	115	120	113	92			
% Recovery Control Limits:	71-133	72-128	72-130	71-120	75-125		<u> </u>	<u> </u>
Oom of Chino.	11:100	72-120	12-100	7 1-120	10-120			

SEQUOIA ANALYTICAL, #1271

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.

4080519.KEI <3>

KAPREALIAN ENGINEERING

# CHAIN OF CUSTODY

SAMPLER	1816	<b>&gt;</b>	1	SITE NAME & ADDRESS VINCENT ROOFING- CO. HAYWARD, 2181 DUNN Road									HALYSE	S REQU	ESTED			TURN AROUND TIME:  ONE WEEK
WITHESSING /	AGENCY		He	hyu	JAF	id,	21	81 D	MNN	Road	9	旦	م م	-				5 DAYS
SAMPLE ID NO.	DATE	TIME	SOLL	VATER	GRAS	сонр	NO. OF CONT.		SAMPLING LOCATION		屋	8TX	tota				,	ŘEHÀRKS
Water-	F 8/8/94			V	V		4	Fuel	Tank	Pit	V	V	レ	-	40	905	19	was collected in Four VOA's.
								•						,		11-1	)	was collected
																		in Four VOA's.
			·							· · · · · ·								
			<u></u>				<del> </del>			<del></del>	<del> </del>				<b> </b>	·		
	<u> </u>		<u> </u>	<del> </del>			<del> </del>		<del> </del>		<del> </del>	<b> </b>		<u> </u>	-			-
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	1	-//			<del> </del>	-		<u> </u>					<u> </u>					
200		HON		ate/Ti	me	1	Receiv	red by: (\$	(gnature)			for a	natysi	5		•		the laboratory accepting samples
Relinquishe	Relinquished by: (Signature) Date/Time Received by: (Signature)												ed until analyzed?					
Relinquishe	ed by: (Si	gnature)	C	ate/Ti	me	1	Receiv	red by: (S	ignature)			3. Ō	id any	sampl	es rec	िल्ल	for ar	nalysis have head space?
Relinquishe	ed by: (Si	gnature)	,	ate/T	me	R	Receiv Y K	red by: (s	ignature) 8/8/94	1:307	) M	C.A	Kell	les avre	in ep		sinpl	tainers and properly packaged?

2401 Stanwell Drive, Suite 400 Concord, California 91520 Tel. 510:602 5100 - Eax 510:687 (XX)2