

#### Consulting Engineers

P.O. BOX 996 • BENICIA, CA 94510 (707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581

KEI-J91-0903.R2
February 19, 1992

A.A. Johnson 1164 - 66th Street Oakland, California

Attention: Mr. John Twomey

RE: Stockpiled Soil Sampling for

A.A. Johnson

1164 - 66th Street Oakland, California

Dear Mr. Twomey:

This letter report summarizes the results of the stockpiled soil sampling and laboratory analyses for the referenced site. The soil analyses were conducted to comply with the County Health Department requirements for proper disposal of contaminated soil.

On September 18, 1991, soil samples from approximately 100 cubic yards of stockpiled soil that had been excavated from the fuel tank pit were collected to determine proper disposal of the soil. Two composite soil samples (designated as Comp A and Comp B) were taken. Each composite sample consisted of four individual grab samples taken at various locations and at depths of approximately 2 feet into the stockpile. The samples were collected in two-inch diameter, clean brass tubes, which were then sealed with aluminum foil, plastic caps and tape, and placed in a cooled ice chest for subsequent delivery to a certified laboratory for analysis. All samples were analyzed at Sequoia Analytical Laboratory in Concord, California, and were accompanied by properly executed Chain of Custody documentation. Sample point locations are as shown on the attached Site Plan, Figure 1.

On November 13, 1991, Kaprealian Engineering, Inc. (KEI) returned to the site to collect soil samples from approximately 100 cubic yards of stockpiled soil that had been additionally excavated from the fuel tank pit. Two composite samples (designated as Comp C and Comp D) were collected and stored as described above. Sample point locations are as shown on the attached Site Plan, Figure 2.

On December 13, 1991, KEI again returned to collect soil samples from approximately fifty cubic yards of stockpiled soil excavated from the fuel tank pit. One composite soil sample (designated as Comp E) was collected and stored as described above. Sample point locations are as shown on the attached Site Plan, Figure 3.

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Soîl samples were analyzed to determine concentrations of total petroleum hydrocarbons (TPH) as gasoline using EPA method 5030 in conjunction with modified 8015, and benzene, toluene, xylenes and ethylbenzene using EPA method 8020. In addition, sample Comp A was analyzed for organic lead using the DHS LUFT method. Analytical results of the soil samples (Comp A, Comp B, Comp C, and Comp D) indicate levels of TPH as gasoline ranging from 12 ppm to 94 ppm. However, the analytical result of the soil sample (Comp E) indicates a level of TPH as gasoline at 200 ppm. Results of the soil analyses are summarized in Table 1. Copies of the laboratory analyses, and the Chain of Custody documentation are attached to this report.

Based on the manalytical results of the soil samples, approximately 200 cubic yards of stockpiled soil, represented by samples Comp A, Comp B, Comp C, and Comp D, were disposed of at Redwood Landfill in Novato, California (an approved Class III disposal site) by R.W. Johnston and Son. However, prior to loading and off-hauling of the stockpiled soil, KEI recommended that if obvious isolated high contamination was detected within the stockpiled soil, that portion of the soil be separately stockpiled for further treatment and sampling.

Furthermore, based on the analytical results, approximately 50 cubic yards of stockpiled soil, represented by Comp E, can be disposed of at an approved Class II disposal site, or can remain on-site for further treatment and resampling.

#### DISTRIBUTION

A copy of this report should be sent to Ms. Susan L. Hugo of the Alameda County Health Agency, and to the Regional Water Quality Control Board, San Francisco Bay Region.

KEI-J91-0903.R2
February 19, 1992
Page 3

Should you have any questions on this report, please do not hesitate to contact me at (707) 746-6915.

Sincerely,

Kaprealian Engineering, Inc.

Kristin B. Mascarenas

/kbm

Attachments: Table 1

Site Plans - Figures 1, 2 & 3

Laboratory Results

Chain of Custody documentation

KEI-J91-0903.R2 February 19, 1992

TABLE 1

SUMMARY OF LABORATORY ANALYSES

(Collected on September 18, November 13, and December 13, 1991)

<u>Sample</u>	TPH as <u>Gasoline</u>	<u>Benzene</u>	Toluene	<u>Xylenes</u>	Ethylbenzene
Comp A*	94	ND	ND	1.9	0.11
Comp B	16 *	0.15	0.021	0.077	0.091
Comp C	12	ND	0.014	0.038	ND
Comp D	56	ND	0.032	0.12	ND
Comp E	200	0.050	0.32	6.2	1.2
Detection Limits	1.0	0.0050	0.0050	0.0050	0.0050

ND = Non-detectable.

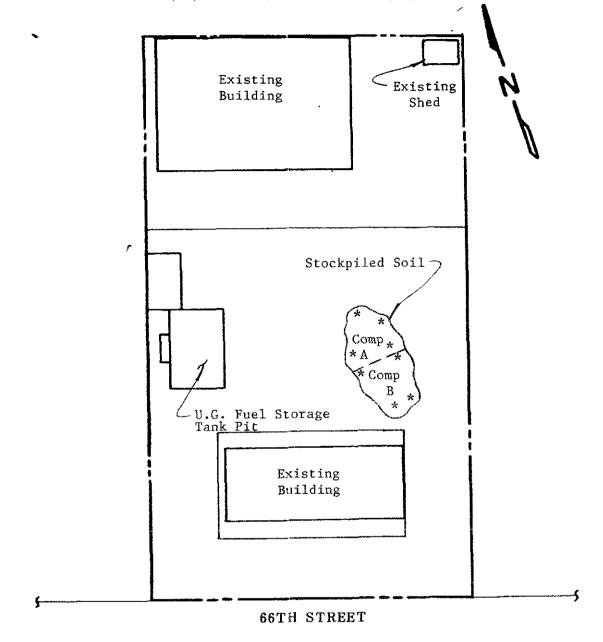
Results in parts per million (ppm), unless otherwise indicated.

<sup>\*</sup> Organic Lead was non-detectable.



## Consulting Engineers

P.O. BOX 996 • BENICIA, CA 94510 (707) 746-6915 • (707) 746-6916 • FAX: (707) 746-5581



 $\frac{\textbf{SITE PLAN}}{\text{Figure 1}}$ 

LEGEND

Sample Point Location

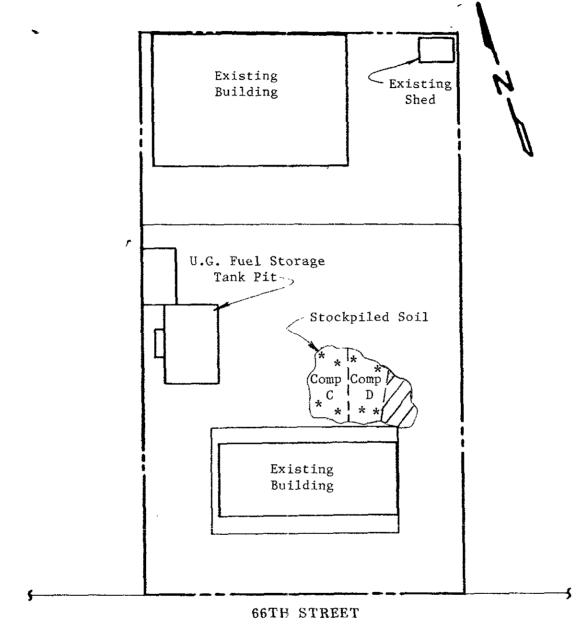


A.A. Johnson 1164 - 66th Street Oakland, CA



## Consulting Engineers

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#### SITE PLAN Figure 2

#### LEGEND

\* Sample Point Location

Previously sampled soil

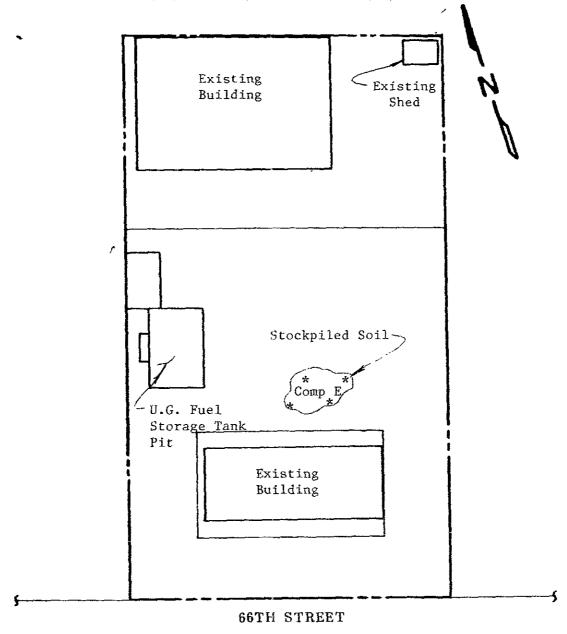


A.A. Johnson 1164 - 66th Street Oakland, CA



## **Consulting Engineers**

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SITE PLAN Figure 3

LEGEND

\* Sample Point Location



A.A. Johnson 1164 - 66th Street Oakland, CA

THE YEAR WITH THE



Kaprealian Engineering, Inc. Client Project ID: R.W. Johnston/A.AJohnson-Sampled: Sep 18, 1991 P.O. Box 996 Matrix Descript: Soil Received: Sep 19, 1991 1164-66th St. Oakland, CA Benicia, CA 94510 Analysis Method: EPA 5030/8015/8020 Analyzed: Sep 26, 1991 Attention: Mardo Kaprealian, P.E. First Sample #: 109-1828 AD Reported: Oct 9, 1991

## TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
109-1828	Comp A	94	N.D.	N.D.	0.11	1.9
109-1829	Comp B /	16	0.15	0.021	0.091	0.077

Detection Limits:	1.0	0.0050	0.0050	0.0050	0.0050

Low to Medium Boiling Point Hydrocarbons are quantitated against a ç asoline standard Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL



Client Project ID: R W. Johnston/A.AJohnson-

P.O. Box 996

1164-66th St. Oakland, CA

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E. QC Sample Group: 1091828-1829 

Reported: Oct 9, 1991

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

#### SURROGATE

Method: Analyst: Reporting Units:

Sample #:

Date Analyzed:

EPA 8015/8020 J. Fontecha

109-1828

mg/kg/ Sep 26, 1991

EPA 8015/8020 PA 8015/8020 J. Fontecha J. Fontecha mg/kg mg/kg Sep 26, 1991 Sep 26, 1991

Surrogate

% Recovery:

98

76

109-1829

110

Blank

SEQUOIA ANALYTICAL

Belinda C Vega Laboratory Director

1% Recovery	Conc. of M.S Conc. of Sample	x 100
	Spike Conc. Added	
Relative % Difference	Conc. of M.S Conc. of M.S.D.	x 100
Į.		

1091828 KEI <2>

Kaprealian Engineering, Inc.

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E. First Sample #:

Client Project ID:

HAVE KALAKA LAVOKO PERIODEKSEKO PERIODEKSEKO KASALAVELA ELEPETRAKA KADA BARA BERE ELEPETE ELEPETE ELEPETE ELE R.W. Johnston/A.AJohnson-

Sample Descript:

Analysis Method:

California LUFT Manual, 12/87

109-1828

Sampled:

医二氯环苯 化双氯羟酸钠

Sep 18, 1991 6 Received: Sep 19, 1991

Extracted: Sep 26, 1991

Analyzed: Sep 26, 1991 Reported: Oct 9, 1991

#### **ORGANIC LEAD**

Sample Number

Sample Description Sample Results

mg/kg (ppm)

109-1828

Comp A

N.D.

**Detection Limits:** 

0.050

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

SEQUOIA ANALYTICAL

Belinda C Vega Laboratory Director

1091828.KEI <3>



Kaprealian Engineering, Inc.

Client Project ID: R.W.

Client Project ID: R.W. Johnston/A.AJohnson-

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E. QC Sample Group: 1091828-1829 Reported: Oct 9, 1991

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

ANALYTE					
	Organic Lead	Benzene	Toluene	Ethylbenzene	Xylenes
Method: Analyst: Reporting Units: Date Analyzed: QC Sample #:	Luft N.Anderson mg/kg/ Sep 26, 1991 109-1877	EPA 8015/8020 J. Fontech mg/kg Sep 26, 1991 matrix Blank	FA 8015/802 J. Fontech mg/kg Sep 26, 1991 matrix Blank	PA 8015/802 J. Fontech mg/kg Sep 26, 1991 matrix Blank	PA 8015/8020 J. Fontech mg/kg Sep 26, 1991 matrix Blank
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Spike Conc. Added:	25	0.40	0.40	0.40	· 1.2
Conc. Matrix Spike:	16	0.39	0.38	0.42	1.2
Matrix Spike % Recovery:	64	98	95	95	100
Conc. Matrix Spike Dup.:	17	0.44	0.43	0.47	1.4
Matrix Spike Duplicate % Recovery:	68	110	110	120	120
Relative % Difference:	6 1	12	12	11	15

Laboratory blank contained the following analytes None Detected

SEQUOIA ANALYTICAL

% Recovery	Conc. of M.S Conc. of Sample	x 100	
	Spike Conc. Added		
Relative % Difference	Conc. of M.S Conc. of M.S.D.	x 100	
	(Conc of MS + Conc of MSD)/2		
			1091828 KEI <4>



## CHAIN OF CUSTODY

SAMPLER	Bu	daik		Z.W.		HW	STO		W.	14	ANALYS	ES REQ	UESTED	T	1	TURN AROUND TIME:		
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	hed by: (S	ighature)	<del>                                     </del>	Sate/Ti	ine	<del>- </del>   	Receiv	ed by: (Signature)	1	3.	Did em	sempl	es rec	eiver	Ar w	nalysis have head space?		
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Client Project ID: A.A. Johnson Co.,1164-66th Street, Oakland Sampled: Nov 13, 19 Kaprealian Engineering, Inc. Nov 13, 1991 Nov 14, 1991 P.O. Box 996 Matrix Descript: Soil Received: Nov 26, 1991 Analysis Method: EPA 5030/8015/8020 Analyzed: Benicia, CA 94510 Dec 3, 1991 111-1015 A-D Reported: Attention: Mardo Kaprealian, P.E. First Sample #: 

#### TOTAL PETROLEUM FUEL HYDROCARBONS with BTEX DISTINCTION (EPA 8015/8020)

Sample Number	Sample Description	Low/Medium B.P. Hydrocarbons mg/kg (ppm)	Benzene mg/kg (ppm)	Toluene mg/kg (ppm)	Ethyl Benzene mg/kg (ppm)	Xylenes mg/kg (ppm)
111-1015	Comp C	12	N.D.	0.014	N.D.	0.038
111-1016	Comp D	56	N.D.	0.032	N.D.	0.12

thod Detection Limits:	1.0	0.0050	0.0050	0.0050	0.0050	

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard

**SEQUOIA ANALYTICAL** 



Kaprealian Engineering, Inc.

Client Project ID: A A. Johnson Co.,1164-66th Street, Oakland

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E. QC Sample Group: 1111015-16

Reported: Dec 3, 1991

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

ANALYTE	<del></del>		Ethyl-	
	Benzene	Toluene	Benzene	Xylenes
				_
8 d _ ad1	EPA	EPA	EPA	EPA
Method:	8015/8020	8015/8020	3015/8020	8015/8020
Analyst:	R.H./J.F.	R.H./J.F.	R.H./J.F.	R.H./J.F.
Reporting Units:	mg/kg	mg/kg	mg/kg	mg/kg
Date Analyzed:	Nov 26, 1991	Nov 26, 1991		Nov 26, 1991
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc.				
Added:	0.40	0.40	0.40	1.2
Conc. Matrix				
Spike:	0.36	0.37	0.39	1.2
Matrix Spike				
% Recovery:	90	92	98	100
Conc. Matrix				
Spike Dup.:	0.36	0.37	0.39	1.2
Matrix Spike				
Duplicate				
% Recovery:	90	92	98	100
Relative				
% Difference:	0	0	0	0

Laboratory blank contained the following analytes: None Detected

**SEQUOIA ANALYTICAL** 

% Recovery	Conc. of M.S Conc. of Sample Spike Conc. Added	x 100
Relative % Difference	Conc of M.S Conc of M.S.D.) / 2	x 100



Client Project ID: A.A. Johnson Co., 1164-66th Street, Oakland

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E. QC Sample Group: 1111015-16 Reported: Dec 3, 1991

THE STATE ALTERS DEFINED AND THE STATE

#### QUALITY CONTROL DATA REPORT

### SURROGATE

Method: Analyst:

EPA 8015/8020

EPA 8015/8020 R.H.

PA 8015/8020

P.H. mg/kg

mg/kg

R.H.

Reporting Units: Date Analyzed:

Nov 26, 1991

Nov 26, 1991

mg/kg Nov 26, 1991

Sample #: 111-1015

111-1016

Blank

Surrogate

% Recovery:

98

96

99

SEQUOIA ANALYTICAL

% Recovery	Conc of M.S Conc of Sample	x 100
1	Spike Conc Added	
Relative % Difference.	Conc of M.S Conc of M.S.D.	x 100
f	(0	



## CHAIN OF CUSTODY

SAMPLER DESCRIPTION OF THE STATE AGENCY				SITE NAME & ADDRESS									ANALYSE	ES REQ	JESTED	TURN AROUND TIME:		
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11/1/2 11/19/						hepéived by: (signeture)				for	The following MUST BE completed by the laboratory accepting analysis:  1. Have all samples received for analysis been stored in							
Relinquished by: (Signature)		] 0	ate/T	ime		Received by: (Signature)						Will samples remain refrigerated will analyzed?						
			ate/Time   Received by: (Signature)							[	3. Did any samples received for analysis have head space?							
			Date/Time   Received by: (Signature)							{     	4. Were samples in appropriate containers and properly packaged?							



产品,10元子自由的大型的**19**06年的2006年2008年2008年2008年10年20日20年,初的4年10月1日,10日日日日 Kaprealian Engineering, Inc. Client Project ID: A.A. Johnson/ 1164-66th St., Oakland Sampled: Dec 13, 1991 P.O. Box 996 Sample Descript.: Soil, Comp E Received: Dec 13, 1991 Benicia, CA 94510 Analysis Method: EPA 5030/8015/8020 Analyzed: Dec 19, 1991 3 Attention: Mardo Kaprealian, P.E. Lab Number: Reported: 112-0493 Dec 27, 1991

#### TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTEX DISTINCTION (EPA 8015/8020)

Analyte Method Detection Limit Sample Results mg/kg (ppm) mg/kg (ppm)

Low to Medium Boil	ng Point Hydrocarbons	
Benzene	0.0050	
Toluene		- "
Ethyl Benzene		5.00
Xylenes	0.0050	<b>9</b> 0,

Low to Medium Boiling Point Hydrocarbons are quantitated against a gasoline standard

SEQUOIA ANALYTICAL

Belinda C Vega Laboratory Director

1120493 KEI <1>



production of the process of the contraction of the Client Project ID: A.A. Johnson/ 1164-66th St., Oakland

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

QC Sample Group: 112-0493 

Reported: Dec 27, 1991

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

SURROGATE

**EPA** 

Method: Analyst:

Sample #:

Reporting Units:

Date Analyzed:

8015/8020

R. Halsne

mg/kg

Dec 19, 1991

112-0493

**EPA** 

8015/8020

R. Halsne

mg/kg

Dec 19, 1991

Blank

Surrogate

% Recovery:

78

100

SEQUOIA ANALYTICAL

Belinda C Vega Laboratory Director % Recovery

Conc. of M.S. - Conc. of Sample

x 100

Spike Conc. Added

Relative % Difference

Conc of M S - Conc of M S D

x 100

(Conc of MS + Conc of MSD)/2

1120493 KEL < 2>



Client Project ID: A.A. Johnson/ 1164-66th St., Oakland

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E. QC Sample Group: 112-0493

Reported: Dec 27, 1991

## **QUALITY CONTROL DATA REPORT**

ANALYTE			Ethyl-	
	Benzene	Toluene	Benzene	Xylenes
	EPA	EPA	EPA	EPA
Method:	8015/8020	8015/8020	8015/8020	8015/8020
Analyst:	R.H./J.F.	R.H./J.F.	R.H./J.F.	R.H./J.F.
Reporting Units:	mg/kg/	mg/kg	mg/kg	mg/kg
Date Analyzed:	Dec 19, 1991	Dec 19, 1991	Dec 19, 1991	
QC Sample #:	Matrix Blank	Matrix Blank	Matrix Blank	Matrix Blank
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Spike Conc.				
Added:	0.40	0.40	0.40	1.2
Conc. Matrix				
Spike:	0.36	0.35	0.35	1.2
Matrix Spike				
% Recovery:	90	<b>88</b>	88	100
Conc. Matrix				
Spike Dup.:	0.35	0.34	0.33	1.2
Matrix Spike Duplicate				
% Recovery:	88	85	85	100
Relative				
% Difference:	2.8	29	5 8	0 0

Laboratory blank contained the following analytes None Detected

SEQUOIA ANALYTICAL

Belinda C Vega Laboratory Director

% Recovery	Conc of M.S Conc of Sample	x 100	
	Spike Conc. Added		
Relative % Difference	Conc. of M.S Conc. of M.S.D.	x 100	
_	(Conc of MS + Conc of MSD)/2		

1120493 KEL <3>



## CHAIN OF CUSTODY

SAMPLER   COLOF			1	A.A. Johnson - Oakland							AHAI ~	S REQL	JESTED	TURN AROUND TIME:  Regular			
				1164-66+9 Street						四		, i	 	 	!   		
SAMPLE ID NO.	DATE		SOIL	WATER	     GRAB	COMP	NO. OF	SAMPLING LOCATION	艺工	W/X			   	   	1	REMARKS	
CompE	▗ <del>▕</del> ▗▃ <del>▗</del> ▄▃▃			+	+		4	STOCKPILE								1120493AB	
Relinquished by: (Signature)   Date/Time   P/3/9/1630   Relinquished by: (Signature)   Date/Time   Relinquished by: (Signature)   Relinquished by: (Signature)   Date/Time   Relinquished by: (Signature)   Relinquished by: (Signatu					0	Received by: (Signature)  Received by: (Signature)  Received by: (Signature)				r analysis:  Have all samples received for  Will samples remain refriger  Did any samples received for				geneter of the con			