



KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915

KEI-J88-1206.R1

January 11, 1989

Mobil Oil Corporation
P.O. Box 127
Richmond, CA 94804

Attention: Mr. Steve Pao

RE: Soil Sampling Report
Mobil Service Station #10-KNK
7197 Village Parkway
Dublin, California

Dear Mr. Pao:

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 Agency (ACHA).

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

Coordination with regulatory agencies.

Collection of samples of native soil from beneath the tank.

Collection of stockpile samples of soil excavated from the tank pit during tank removal.

Delivery of samples, including proper Chain of Custody documentation, to a certified analytical laboratory.

Technical review of laboratory analyses and preparation of this report.

SITE DESCRIPTION AND BACKGROUND

The subject site is presently used as a gasoline station. Site vicinity and site descriptions are shown on the attached sketches. No leaks or previous subsurface work performed at the site are known to KEI.

FIELD ACTIVITIES

KEI's field work was conducted on December 7, 1988. On this date, one underground storage tank was removed from the site.

The tank consisted of a 280 gallon waste oil tank. The tank was made of steel and several small holes up to 3/8" diameter were observed. Mr. Dennis Byrne of the ACHA and Mr. Tom Hathcox of the Dublin/San Ramon Fire District were present for the tank removal.

One soil sample, labeled WO-1(10), was taken of the native soil from beneath the tank at a depth of about ten feet. One soil sample, labeled WO-2(18), was collected from the native soil beneath the tank at a depth of 18 feet. The samples were collected from bulk material excavated by backhoe. The samples were placed in clean, 2" diameter brass tubes, sealed with aluminum foil, plastic caps and tape, and stored in a cooled ice chest for delivery to a certified laboratory. Sample locations are as shown on the attached Site Plan, Figure 1.

Also on December 7, 1988, two composite soil samples, labeled Comp A and Comp B, were collected from approximately 50 cubic yards of soil stockpiled on site. The soil was generated during tank excavation and removal. Each composite consisted of four individual grab samples taken at various locations and depths ranging from one to two feet and composited as one sample by the lab. These samples were also handled and stored as described above. The location of composite samples Comp A and Comp B are shown on the Site Plan, Figure 1.

KEI returned to the site on December 15, 1988 during the additional excavation of soil required by ACHA to define the lateral extent of contamination. Four sidewall samples, labeled SW-1, SW-2, SW-3 and SW-4, were taken at a depth of ten feet. Samples were handled and stored as described above. Sample locations are shown on the Site Plan, Figure 2, attached. Soil was excavated from one to six feet laterally into the tank pit sidewalls from grade to a depth of 11 feet. The excavated soil was stockpiled on-site.

KEI again returned to the site on December 20, 1988, for additional lateral excavation of soil in the area of sample point SW-3. An additional three feet of soil was excavated from the sidewall, and one sidewall sample, labeled SW-3A, was taken at a depth of ten feet. This sample was also handled and stored as described above.

SUBSURFACE CONDITIONS

The subsurface soils exposed in the excavation consisted primarily of clay.

ANALYTICAL RESULTS

All tank pit and stockpile samples were analyzed by Sequoia Analytical Laboratory of Redwood City, California and were accompanied by properly executed Chain of Custody forms. All soil samples were analyzed for total petroleum hydrocarbon (TPH) as diesel using EPA method 3550/8015, and total oil and grease (TOG). In addition, the two tank bottom samples, labeled WO-1(10) and WO-2(18) were analyzed for EPA 8010/8020 constituents.

Soil sample analyses from the waste oil tank pit indicate levels of TPH as diesel ranging from 2.5 to 20 ppm. TOG ranged from 2.5 to 550 ppm for the samples taken once tank pit excavation was completed.

Composite stockpile soil sample analyses for Comp A and Comp B indicated levels of TPH as diesel ranging from 1.6 to 35 ppm with TOG ranging from 6.8 to 17 ppm. These stockpiles have been consolidated since sampling.

The analytical results for all samples are summarized in Table 1. Copies of the laboratory analyses and the Chain of Custody forms are attached to this report.

DISCUSSION AND RECOMMENDATIONS

Based on the analytical results, the stockpile represented by samples Comp A and Comp B is considered non-hazardous by the RWQCB and may be disposed of at a Class III landfill. We recommend that the balance of the soil (250 cu.yds.) stockpiled on site be disposed of at a Class I landfill.

In accordance with the guidelines established by the RWQCB, further investigation is necessary at the site because of the level of contamination found in the soil. To comply with the requirements of the RWQCB and the Alameda County Health Agency, KEI recommends the installation of three monitoring wells at the site to begin to define the extent of the contamination, to determine the ground water gradient, and to determine if the ground water has been impacted. KEI's proposal for this work is attached for your review and consideration.

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January 11, 1989
Page 4

A copy of this report should be sent to Mr. Dennis Byrne of the Alameda County Health Agency, and to the RWQCB, Bay Area Region.

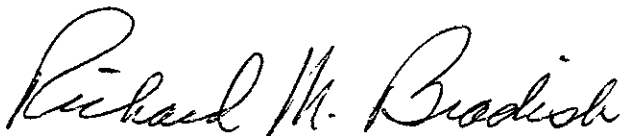
LIMITATIONS

The results of this study are based on the data obtained from the field and laboratory investigations. 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 (707) 746-6915.

Sincerely,

Kaprealian Engineering, Inc.



Richard M. Bradish
Staff Engineer



Gary S. Johnson
Registered Geologist

License No. 4315
Exp. Date 6/30/90

RMB:jad

cc: David Noe, Mobil

Attachments: Table 1
Location Map
Site Plan, Figure 1 and 2
Laboratory Analyses
Chain of Custody forms
Proposal

KEI-J88-1206.R1
January 11, 1989

TABLE 1
SUMMARY OF LABORATORY ANALYSES
(Results in ppm)

<u>Sample</u>	<u>Depth (feet)</u>	<u>TPH as Diesel</u>	<u>Total Oil & Grease</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Xylenes</u>	<u>Ethyl- benzene</u>
WO-1(10)*	10	13	550	ND	0.015	0.110	0.055
WO-2(18)*	18	18	110	ND	ND	ND	ND
SW-1	10	4.0	60	--	--	--	--
SW-2	10	2.5	79	--	--	--	--
SW-3	10	20	1100	--	--	--	--
SW-4	10	ND	68	--	--	--	--
SW-3A	10	6.0	2.5	--	--	--	--
Comp A	--	35	17	--	--	--	--
Comp B	--	1.6	6.8	--	--	--	--

ND = Non-detectable

*All EPA 8010 and 8020 constituents were not detectable except as noted.



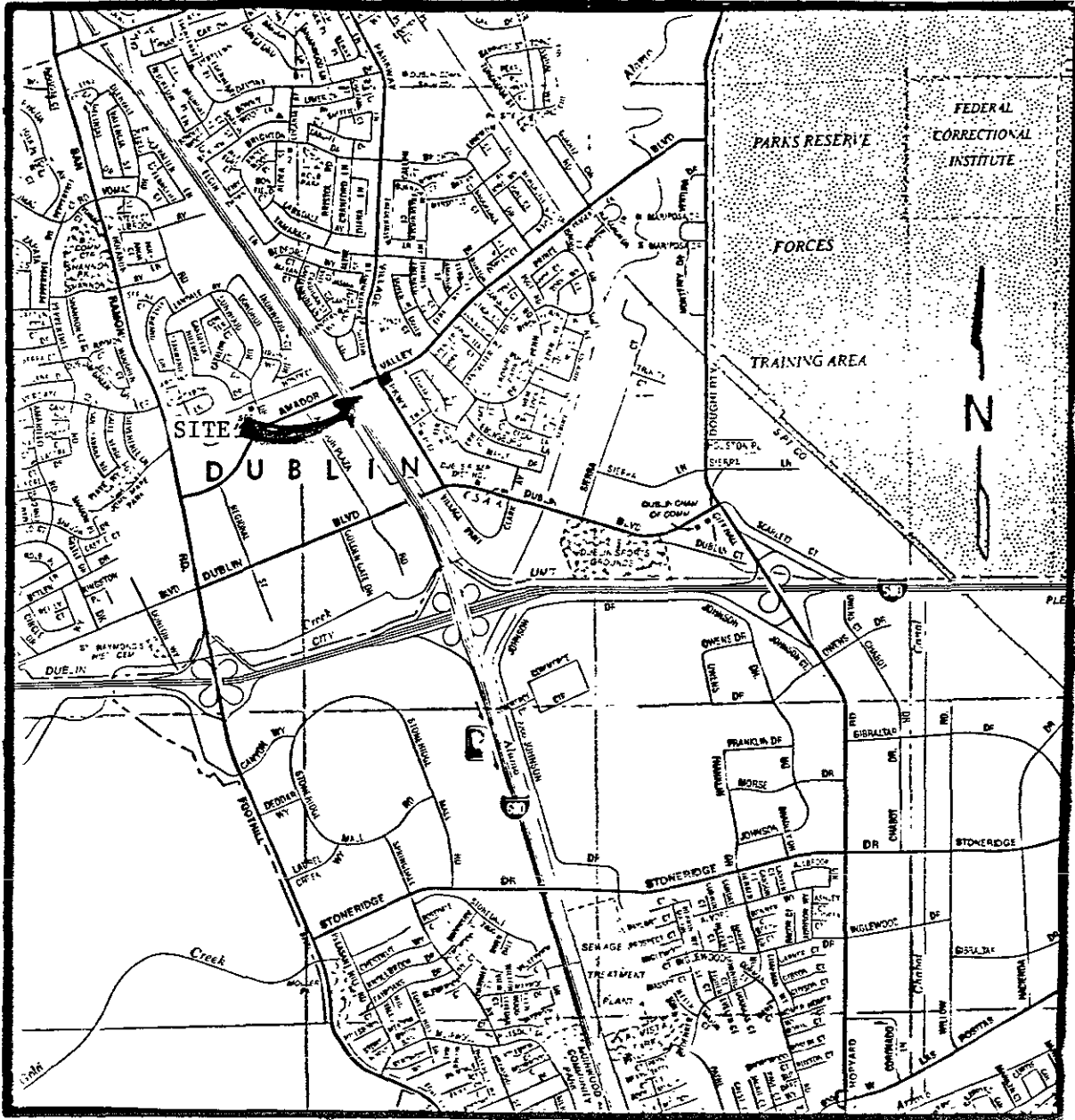
KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915



LOCATION MAP

Mobil Service Station #10-KNF
7197 Village Parkway
Dublin, California



KAPREALIAN ENGINEERING, INC.

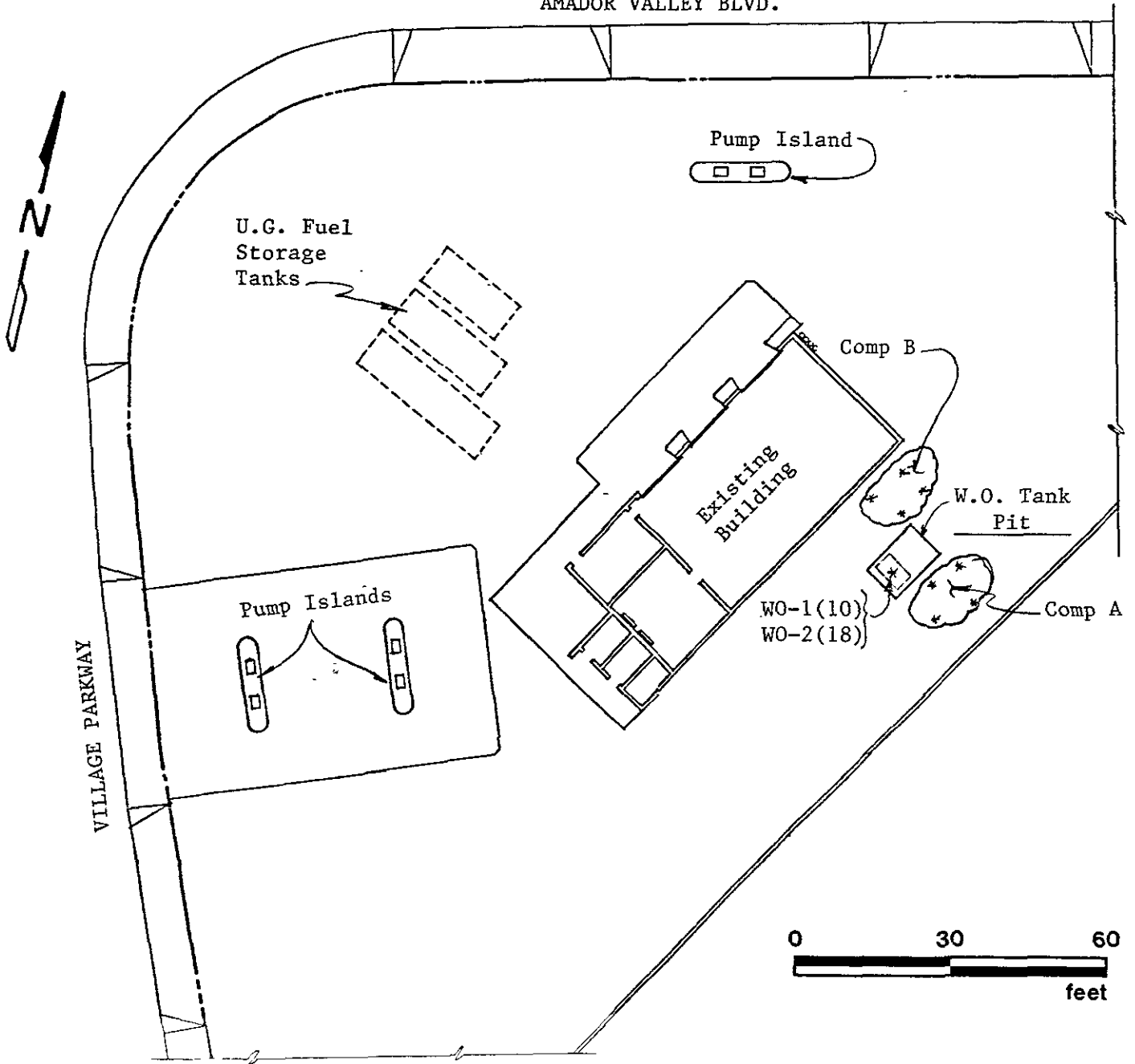
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AMADOR VALLEY BLVD.



SITE PLAN

Figure 1

*Sample Point Location

Mobil Service Station #10-KNK
7197 Village Parkway
Dublin, California



KAPREALIAN ENGINEERING, INC.

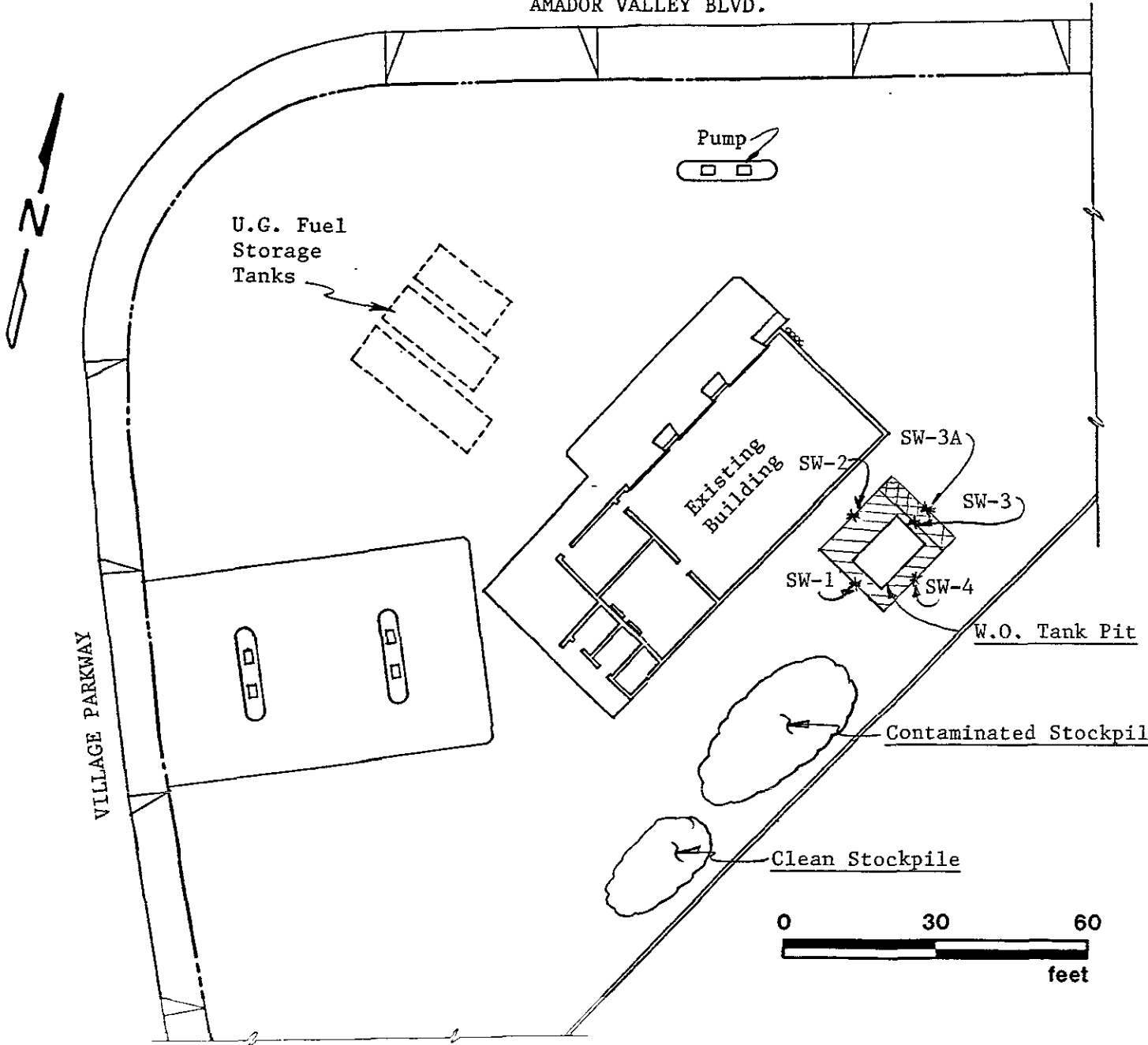
Consulting Engineers

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AMADOR VALLEY BLVD.



SITE PLAN

Figure 2

* Sample Point Location

▨ Lateral Area Excavated 12/15/88

▨ Lateral Area Excavated 12/20/88

Mobil Service Station #10-KNK
7197 Village Parkway
Dublin, California



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc.	Client Project ID:	Mobil, Dublin, Village/Amador Valley	Sampled:	Dec 8, 1988
P.O. Box 913	Matrix Descript:	Soil	Received:	Dec 8, 1988
Benicia, CA 94510	Analysis Method:	EPA 3550/8015	Analyzed:	Dec 21, 1988
Attention: Mardo Kaprealian, P.E.	First Sample #:	812-0639	Reported:	Dec 22, 1988

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
812-0639	Composite A	35
812-0640	Composite B	1.6

Detection Limits:

1.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard
Analytes reported as N.D. were not present above the stated limit of detection

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



SEQUOIA ANALYTICAL

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(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc.	Client Project ID: Mobil, Dublin, Village/Amador Valley	Sampled: Dec 8, 1988
P.O. Box 913	Matrix Descript: Soil	Received: Dec 8, 1988
Benicia, CA 94510	Analysis Method: EPA 418.1 (I.R. with clean-up)	Extracted: Dec 14, 1988
Attention: Mardo Kaprealian, P.E.	First Sample #: 812-0639	Analyzed: Dec 14, 1988
		Reported: Dec 22, 1988

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Petroleum Oil mg/kg (ppm)
812-0639	Composite A	17
812-0640	Composite B	6.8

Detection Limits:	1.0
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Analytes reported as N.D. were not present above the stated limit of detection

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915

CHAIN OF CUSTODY

SAMPLER: *Randy Johnson* DATE/TIME OF COLLECTION: 12/7/88 1:30
 (signature) TIME: 10 days

SAMPLE DESCRIPTION AND PROJECT NUMBER: Atskil - Dublin - Village Park Hwy 3 Bypass Valley

<u>SAMPLE #</u>	<u>ANALYSES</u>	<u>GRAB OR COMP.</u>	<u>NUMBER OF CONTAINERS</u>	<u>SOIL/WATER</u>
<u>Comp A</u>	<u>TPHD, TOC</u>	<u>C</u>	<u>1</u>	<u>S</u>
<u>Comp B</u>	<u>TPHD, TOC</u>	<u>C</u>	<u>1</u>	<u>S</u>

<u>RELINQUISHED BY*</u>	<u>TIME/DATE</u>	<u>RECEIVED BY*</u>	<u>TIME/DATE</u>
1. <u><i>Randy Johnson</i></u>	<u>5:00 12/7/88</u>	<u><i>Cl. Owens</i></u>	<u>12-7</u> <u>5:00</u>
2.			
3.			
4.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: _____



SEQUOIA ANALYTICAL

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Kaprealian Engineering, Inc.	Client Project ID: Mobil, Dublin, Village/Amador Valley	Sampled: Dec 20, 1988
P.O. Box 913	Matrix Descript: Soil	Received: Dec 21, 1988
Benicia, CA 94510	Analysis Method: EPA 413.1 (Gravimetric)	Extracted: Dec 21, 1988
Attention: Mardo Kaprealian, P.E.	First Sample #: 812-2141	Analyzed: Dec 21, 1988
		Reported: Dec 22, 1988

TOTAL RECOVERABLE OIL & GREASE

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
812-2141	SW-3A	6.0

Detection Limits:	30.0
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Analytes reported as N D were not present above the stated limit of detection

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc. Client Project ID: Mobil, Dublin, Village/Amador Valley Sampled: Dec 20, 1988
P.O. Box 913 Matrix Descript: Soil Received: Dec 21, 1988
Benicia, CA 94510 Analysis Method: EPA 3550/8015 Analyzed: Dec 21, 1988
Attention: Mardo Kaprealian, P.E. First Sample #: 812-2141 Reported: Dec 22, 1988

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
812-2141	SW-3A	2.5

Detection Limits:

1.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard
Analytes reported as N D were not present above the stated limit of detection

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

8122141 KE1 <2>



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc.

P.O. Box 913

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID: Mobil, Dublin, Village/Amador Valley

Matrix Descript: Soil

Analysis Method: EPA 413.1 (Gravimetric)

First Sample #: 812-1813

Sampled: Dec 15, 1988

Received: Relogged 12/29

Extracted: Dec 30, 1988

Analyzed: Dec 30, 1988

Reported: Jan 3, 1989

TOTAL RECOVERABLE OIL & GREASE

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
812-1813	SW-1	N.D.
812-1814	SW-2	N.D.
812-1815	SW-3	N.D.
812-1816	SW-4	70

Detection Limits:

30.0

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

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915

CHAIN OF CUSTODY

R.M. Bradish
SAMPLER: _____
(signature)

DATE/TIME OF
COLLECTION: 12-15-88

TURN AROUND
TIME: 24HR

SAMPLE DESCRIPTION
AND PROJECT NUMBER:

Mobil - Dublin
Village of Amador Valley

SAMPLE #	ANALYSES	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/ WATER	
Sw-1	TPH-D; TOG(SO ₃ D ₄ E) ^{CRV}	G	1	S	1013
Sw-2	" "	G	1	S	914
Sw-3	" "	G	1	S	1015
Sw-4	" "	G	1	S	1016

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
1. <u>R.M. Bradish</u>	<u>12/15/88</u> <u>5:00 pm</u>	<u>Harry S. Johnson</u>	<u>12/15/88</u> <u>5:00 pm</u>
2. <u>Harry S. Johnson</u>	<u>12/16/88</u> <u>8:23 am</u>	<u>Don Michels</u>	<u>8:55 AM</u> <u>12-16-88</u>
3. <u>Don Michels</u>	<u>12-16-88</u> <u>10:20 AM</u>	<u>Belinda Uy</u>	<u>12/16/88</u> <u>10:20</u>
4.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: NO Charge.



SEQUOIA ANALYTICAL

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(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc.	Client Project ID: Mobil, Dublin, Village/Amador Valley	Sampled: Dec 20, 1988
P.O. Box 913	Matrix Descript: Soil	Received: Dec 21, 1988
Benicia, CA 94510	Analysis Method: EPA 413.1 (Gravimetric)	Extracted: Dec 21, 1988
Attention: Mardo Kaprealian, P.E.	First Sample #: 812-2141	Analyzed: Dec 21, 1988
		Reported: Dec 22, 1988

TOTAL RECOVERABLE OIL & GREASE

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
812-2141	SW-3A	N.D.

Detection Limits: 30.0

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

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director

8122141; KEI <1>



KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915

CHAIN OF CUSTODY

SAMPLER: R.M. Bradal (signature) DATE/TIME OF COLLECTION: 12-20-88 TURN AROUND TIME: 24 Hr

SAMPLE DESCRIPTION AND PROJECT NUMBER: Mobil - Dublin
Village Plowing & Amador Valley Prod

SAMPLE #	ANALYSES	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/WATER
<u>SWI-3A</u>	<u>TPH-D; TOG (SO3 DLE)</u>	<u>G</u>	<u>1</u>	<u>S</u>

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
<u>R.M. Bradal</u>	<u>8:30 12/21/88</u>	<u>Chris Nielsen</u>	<u>8:30 AM 12-21-88</u>
<u>Chris Nielsen</u>	<u>11:15 12-21-88</u>	<u>Mark R. M.</u>	<u>11:15 12/21/88</u>

* STATE AFFILIATION NEXT TO SIGNATURE
REMARKS: _____



KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915

CHAIN OF CUSTODY

SAMPLER: R.M. Bradish (signature) DATE/TIME OF COLLECTION: 12-20-88 TURN AROUND TIME: 24 Hr

SAMPLE DESCRIPTION AND PROJECT NUMBER:

Mobil - Dublin
Village Plowing & Amador Valley Dist

SAMPLE #	ANALYSES	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/WATER
<u>SW-3A</u>	<u>TPH-D; TOC (SO3 D&E)</u>	<u>G</u>	<u>1</u>	<u>S</u>

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
<u>R.M. Bradish</u>	<u>8:30 AM 12/21/88</u>	<u>Don Victor</u>	<u>8:30 AM 12-21-88</u>
2.			
3.			
4.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: _____



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc.

P.O. Box 913

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID:

Matrix Description:

Method of Analysis:

First Sample Number:

Mobil, Dublin, Village/Amador Valley

Soil

EPA 3550/8015

812-1813

Sampled: December 15, 1988

Received: December 16, 1988

Analyzed: December 19, 1988

Reported: December 19, 1988

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
812-1813	SW-1	4.0
812-1814	SW-2	2.5
812-1815	SW-3	20
812-1816	SW-4	N.D.

Detection Limits:

1.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard
Analytes reported as N D were not present above the stated limit of detection

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



SEQUOIA ANALYTICAL

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Kaprealian Engineering, Inc.

P.O. Box 913

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID: Mobil, Dublin, Village/Amador Valley

Matrix Description: Soil

Method of Analysis: EPA 413.2 (I.R.)

First Sample Number: 812-1813

Sampled: December 15, 1988

Received: December 16, 1988

Extracted: December 19, 1988

Analyzed: December 19, 1988

Reported:

TOTAL RECOVERABLE OIL & GREASE

Sample Number	Sample Description	Oil & Grease mg/kg (ppm)
812-1813	SW-1	60
812-1814	SW-2	79
812-1815	SW-3	1,100
812-1816	SW-4	68

Detection Limits: 1.0

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

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915

CHAIN OF CUSTODY

R.M. Bradish
 SAMPLER: _____ DATE/TIME OF COLLECTION: 12-15-88 TURN AROUND TIME: 24HR
 (signature)

SAMPLE DESCRIPTION AND PROJECT NUMBER:

Mobil - Dublin
Village of Amador Valley

SAMPLE #	ANALYSES	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/WATER
<u>Sw-1</u>	<u>TPH-D; TOG(SO3D+E)</u>	<u>G</u>	<u>1</u>	<u>S</u>
<u>Sw-2</u>	<u>" "</u>	<u>G</u>	<u>1</u>	<u>S</u>
<u>Sw-3</u>	<u>" "</u>	<u>G</u>	<u>1</u>	<u>S</u>
<u>Sw-4</u>	<u>" "</u>	<u>G</u>	<u>1</u>	<u>S</u>

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
<u>R.M. Bradish</u>	<u>12/15/88</u> <u>5:00 PM</u>	<u>Gay S. Johnson</u>	<u>12/15/88</u> <u>5:00 PM</u>
<u>Gay S. Johnson</u>	<u>12/16/88</u> <u>8:23 AM</u>	<u>Don Mellich</u>	<u>8:55 AM</u> <u>12-16-88</u>
3.			
4.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: _____



KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 813

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915

CHAIN OF CUSTODY

SAMPLER: R.M. Bradish (signature) DATE/TIME OF COLLECTION: 12-15-88 TURN AROUND TIME: 24 HR

SAMPLE DESCRIPTION AND PROJECT NUMBER:

Mobil - Dublin
Village of Amador Valley

SAMPLE #	ANALYSES	GRAB OR COMP.	NUMBER OF CONTAINERS	SOIL/WATER
Sw-1	TPH-D; TOG(SO3D+E) ^{CRM ✓}	G	1	S 1017
Sw-2	" "	G	1	S 314
Sw-3	" "	G	1	S 151
Sw-4	" "	G	1	S 1016

RELINQUISHED BY*	TIME/DATE	RECEIVED BY*	TIME/DATE
1. <u>R.M. Bradish</u>	<u>12/15/88</u> <u>5:00 pm</u>	<u>Harry S. Johnson</u>	<u>12/15/88</u> <u>5:00 pm</u>
2. <u>Harry S. Johnson</u>	<u>12/16/88</u> <u>8:23 am</u>	<u>Don Muelich</u>	<u>8:55 AM</u> <u>12-16-88</u>
3. <u>Don Muelich</u>	<u>12-16-88</u> <u>10:20 AM</u>	<u>Billie Uy</u>	<u>12/16/88</u> <u>10:20</u>
4.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: _____



SEQUOIA ANALYTICAL

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(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc.	Client Project ID: Mobil, Dublin, Valley Pkwy/Amador Valley	Sampled: December 7, 1988
P.O. Box 913	Matrix Description: Soil	Received: December 8, 1988
Benicia, CA 94510	Method of Analysis: EPA 3550/8015	Analyzed: December 15, 1988
Attention: Mardo Kaprealian, P.E.	First Sample Number: 812-0637	Reported: December 15, 1988

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
812-0637	WO1 (10)	13

Detection Limits:

1.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard
Analytes reported as N.D. were not present above the stated limit of detection

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



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Kaprealian Engineering, Inc.	Client Project ID: Mobil, Dublin, Village Pkwy/Amador Valley	Sampled: December 7, 1988
P.O. Box 913	Matrix Description: Soil	Received: December 8, 1988
Benicia, CA 94510	Method of Analysis: EPA 418.1 (I.R. with clean-up)	Extracted: December 14, 1988
Attention: Mardo Kaprealian, P.E.	First Sample Number: 812-0637	Analyzed: December 14, 1988
		Reported: December 15, 1988

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Petroleum Oil mg/kg (ppm)
812-0637	WO1 (10)	550

Detection Limits:	1.0
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Analytes reported as N D were not present above the stated limit of detection

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc.
P.O. Box 913
Benicia, CA 94510
Attention: Mardo Kaprealian, P.E.

Client Project ID: Mobil, Dublin, Village Pkwy/Amador Valley
Sample Description: Soil, WO1 (10)
Method of Analysis: EPA 5030/8010
Lab Sample Number: 812-0637

Sampled: December 7, 1988
Received: December 8, 1988
Analyzed: December 13, 1988
Reported: December 15, 1988

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit ug/kg	Sample Results ug/kg
Bromodichloromethane.....	5.0	N.D.
Bromoform.....	5.0	N.D.
Bromomethane.....	5.0	N.D.
Carbon tetrachloride.....	5.0	N.D.
Chlorobenzene.....	5.0	N.D.
Chloroethane.....	25.0	N.D.
2-Chloroethylvinyl ether.....	5.0	N.D.
Chloroform.....	5.0	N.D.
Chloromethane.....	5.0	N.D.
Dibromochloromethane.....	5.0	N.D.
1,2-Dichlorobenzene.....	10.0	N.D.
1,3-Dichlorobenzene.....	10.0	N.D.
1,4-Dichlorobenzene.....	10.0	N.D.
1,1-Dichloroethane.....	5.0	N.D.
1,2-Dichloroethane.....	5.0	N.D.
1,1-Dichloroethene.....	5.0	N.D.
trans-1,2-Dichloroethene.....	5.0	N.D.
1,2-Dichloropropane.....	5.0	N.D.
cis-1,3-Dichloropropene.....	5.0	N.D.
trans-1,3-Dichloropropene.....	5.0	N.D.
Methylene chloride.....	10.0	N.D.
1,1,2,2-Tetrachloroethane.....	5.0	N.D.
Tetrachloroethene.....	5.0	N.D.
1,1,1-Trichloroethane.....	5.0	N.D.
1,1,2-Trichloroethane.....	5.0	N.D.
Trichloroethene.....	5.0	N.D.
Trichlorofluoromethane.....	5.0	N.D.
Vinyl chloride.....	10.0	N.D.

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

SEQUOIA ANALYTICAL

for Arthur G. Burton
Laboratory Director



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Kaprealian Engineering, Inc.	Client Project ID: Mobil, Dublin, Village Pkwy/Amador Valley	Sampled: December 7, 1988
P.O. Box 913	Sample Description: Soil, WO1 (10)	Received: December 8, 1988
Benicia, CA 94510	Method of Analysis: EPA 5030/8020	Analyzed: December 13, 1988
Attention: Mardo Kaprealian, P.E.	Lab Sample Number: 812-0637	Reported: December 15, 1988

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit ug/kg	Sample Results ug/kg
Benzene.....	5.0	N.D.
Chlorobenzene.....	5.0	N.D.
1,4-Dichlorobenzene.....	10.0	N.D.
1,3-Dichlorobenzene.....	10.0	N.D.
1,2-Dichlorobenzene.....	10.0	N.D.
Ethyl Benzene	5.0	55
Toluene	5.0	15
Xylene	5.0	110

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

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915

CHAIN OF CUSTODY

SAMPLER: Haley Johnson DATE/TIME OF COLLECTION: 12/7/88 1:30 pm TURN AROUND TIME: 1 week
(signature)

SAMPLE DESCRIPTION AND PROJECT NUMBER: Mobil - Dublin - Village Parkway - Arador Valley

<u>SAMPLE #</u>	<u>ANALYSES</u>	<u>GRAB OR COMP.</u>	<u>NUMBER OF CONTAINERS</u>	<u>SOIL/WATER</u>
<u>W1(10)</u>	<u>TPHDT06, 8010/8020</u>	<u>G</u>	<u>1</u>	<u>S 637</u>

<u>RELINQUISHED BY*</u>	<u>TIME/DATE</u>	<u>RECEIVED BY*</u>	<u>TIME/DATE</u>
1. <u>Haley Johnson</u>	<u>5:00 12/7/88</u>	<u>Chi Quinn</u>	<u>12-7 5:00</u>
2. <u>Haley Johnson</u>		<u>A. H.</u>	<u>12/07/88 5:00</u>
3.			
4.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: _____



SEQUOIA ANALYTICAL

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Kaprealian Engineering, Inc.
P.O. Box 913
Benicia, CA 94510
Attention: Mardo Kaprealian, P.E.

Client Project ID: Mobil, Dublin, Village Pkwy/Amador Valley
Matrix Description: Soil
Method of Analysis: EPA 3550/8015
First Sample Number: 812-0616

Sampled: December 7, 1988
Received: December 8, 1988
Analyzed: December 8, 1988
Reported: December 9, 1988

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
812-0616	WO2(18)	18

Detection Limits:

1.0

High Boiling Point Hydrocarbons are quantitated against a diesel fuel standard
Analytes reported as N D were not present above the stated limit of detection

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



KAPREALIAN ENGINEERING, INC.

Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915

CHAIN OF CUSTODY

SAMPLER: *Randy Johnson* DATE/TIME OF COLLECTION: *12/7/88* 1:30 pm TURN AROUND TIME: *1 week*
(signature)

SAMPLE DESCRIPTION AND PROJECT NUMBER: *Mobil-Dublin-Village Parkway-Meadow Valley*

<u>SAMPLE #</u>	<u>ANALYSES</u>	<u>GRAB OR COMP.</u>	<u>NUMBER OF CONTAINERS</u>	<u>SOIL/WATER</u>
<u><i>W1(10)</i></u>	<u><i>TPH, TOC, 8010/8020</i></u>	<u><i>G</i></u>	<u><i>1</i></u>	<u><i>S</i></u>

<u>RELINQUISHED BY*</u>	<u>TIME/DATE</u>	<u>RECEIVED BY*</u>	<u>TIME/DATE</u>
<u><i>1. Randy Johnson</i></u>	<u><i>5:00 12/7/88</i></u>	<u><i>Chi Owen</i></u>	<u><i>12-7</i></u> <u><i>5:00</i></u>
<u><i>2.</i></u>			
<u><i>3.</i></u>			
<u><i>4.</i></u>			

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REMARKS: _____



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Kaprealian Engineering, Inc.
P.O. Box 913
Benicia, CA 94510
Attention: Mardo Kaprealian, P.E.

Client Project ID: Mobil, Dublin, Village Pkwy/Amador Valley
Matrix Description: Soil
Method of Analysis: EPA 418.1 (I.R. with clean-up)
First Sample Number: 812-0616

Sampled: December 7, 1988
Received: December 8, 1988
Extracted: December 8, 1988
Analyzed: December 8, 1988
Reported: December 9, 1988

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

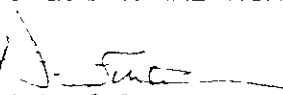
Sample Number	Sample Description	Petroleum Oil mg/kg (ppm)
812-0616	WO2(18)	110

Detection Limits:

1.0

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

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Arthur G. Burton
Laboratory Director



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P.O. Box 913
Benicia, CA 94510
Attention: Mardo Kaprealian, P.E.

Client Project ID: Mobil, Dublin, Village Pkwy/Arnador Valley
Sample Description: Soil, WO2(18)
Method of Analysis: EPA 5030/8010
Lab Sample Number: 812-0616

Sampled: December 7, 1988
Received: December 8, 1988
Analyzed: December 8, 1988
Reported: December 9, 1988

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit ug/kg	Sample Results ug/kg
Bromodichloromethane.....	5.0	N.D.
Bromoform.....	5.0	N.D.
Bromomethane.....	5.0	N.D.
Carbon tetrachloride.....	5.0	N.D.
Chlorobenzene.....	5.0	N.D.
Chloroethane.....	25.0	N.D.
2-Chloroethylvinyl ether.....	5.0	N.D.
Chloroform.....	5.0	N.D.
Chloromethane.....	5.0	N.D.
Dibromochloromethane.....	5.0	N.D.
1,2-Dichlorobenzene.....	10.0	N.D.
1,3-Dichlorobenzene.....	10.0	N.D.
1,4-Dichlorobenzene.....	10.0	N.D.
1,1-Dichloroethane.....	5.0	N.D.
1,2-Dichloroethane.....	5.0	N.D.
1,1-Dichloroethene.....	5.0	N.D.
trans-1,2-Dichloroethene.....	5.0	N.D.
1,2-Dichloropropane.....	5.0	N.D.
cis-1,3-Dichloropropene.....	5.0	N.D.
trans-1,3-Dichloropropene.....	5.0	N.D.
Methylene chloride.....	10.0	N.D.
1,1,2,2-Tetrachloroethane.....	5.0	N.D.
Tetrachloroethene.....	5.0	N.D.
1,1,1-Trichloroethane.....	5.0	N.D.
1,1,2-Trichloroethane.....	5.0	N.D.
Trichloroethene.....	5.0	N.D.
Trichlorofluoromethane.....	5.0	N.D.
Vinyl chloride.....	10.0	N.D.

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

SEQUOIA ANALYTICAL

Arthur G. Burton
Laboratory Director



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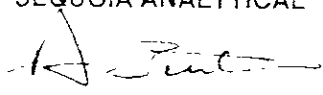
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(415) 364-9600 • FAX (415) 364-9233

Kaprealian Engineering, Inc.	Client Project ID:	Mobil, Dublin, Village Pkwy/Amador Valley	Sampled:	December 7, 1988
P.O. Box 913	Sample Description:	Soil, WO2(18)	Received:	December 8, 1988
Benicia, CA 94510	Method of Analysis:	EPA 5030/8020	Analyzed:	December 8, 1988
Attention: Mardo Kaprealian, P.E.	Lab Sample Number:	812-0616	Reported:	December 9, 1988

AROMATIC VOLATILE ORGANICS (EPA 8020)

Analyte	Detection Limit ug/kg	Sample Results ug/kg
Benzene.....	5.0	N.D.
Chlorobenzene.....	5.0	N.D.
1,4-Dichlorobenzene.....	10.0	N.D.
1,3-Dichlorobenzene.....	10.0	N.D.
1,2-Dichlorobenzene.....	10.0	N.D.
Ethyl Benzene.....	5.0	N.D.
Toluene.....	5.0	N.D.
Xylene.....	5.0	N.D.

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

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 Arthur G. Burton
 Laboratory Director



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Consulting Engineers

P. O. BOX 913

BENICIA, CA 94510

(415) 676-9100 (707) 746-6915

CHAIN OF CUSTODY

SAMPLER: *Harry Johnson* DATE/TIME OF COLLECTION: 12/7/88 1:30 pm TURN AROUND TIME: 24 hour
 (signature)

SAMPLE DESCRIPTION AND PROJECT NUMBER:

Mobil - Dublin - Village Parkway & Alexander Vall.

<u>SAMPLE #</u>	<u>ANALYSES</u>	<u>GRAB OR COMP.</u>	<u>NUMBER OF CONTAINERS</u>	<u>SOIL/WATER</u>
<u>W02(18)</u>	<u>TPHD, TOL, 8010/8020</u>	<u>G</u>	<u>1</u>	<u>S</u>

<u>RELINQUISHED BY*</u>	<u>TIME/DATE</u>	<u>RECEIVED BY*</u>	<u>TIME/DATE</u>
1. <u><i>Harry Johnson</i></u>	<u>5:00 12/7/88</u>	<u><i>Chris Owens</i></u>	<u>12-7 5:00</u>
2.			
3.			
4.			

* STATE AFFILIATION NEXT TO SIGNATURE

REMARKS: _____