



KAPREALIAN ENGINEERING, INC.

Consulting Engineers

PO BOX 996 • BENICIA CA 94510

(707) 746-6915 • (707) 746-6916 • FAX (707) 746-5581

TRANSMITTAL PAGE

DATE: 6-21-90

ALAMEDA COUNTY HEALTH AGENCY
DIV OF HAZARDOUS MAT'LS

TO: RAVI ARULANANTHAM

FROM: R M. BRADISH

Number of Pages
(including cover): 19

SUBJECT: Unocal #5901 - 11976 DUBLIN BLVD, DUBLIN

• Please find attached laboratory analysis and Chain of Custody documentation for fuel tank pit sidewall soil samples collected @ above referenced site on a.) June 13, 1990 - Samples SW1, SW2, SW3, SW4, SW5 & SW6

b.) 6/15/90 - Samples SW1(3), SW2(3), SW5(2.5) & SW6(3)

If any problems occur in receiving, please call the number listed above.

c.) 6/20/90 - Samples SW1(6.5) & SW2(6.5)

• Also attached are lab results & Chain of Custody documentation for waste oil tank pit samples WO1 & SWA collected 6/13/90. Work Parts follow. Site Plan, Figure 1, attached indicates all fuel tank pit sample point locations.

- Also attached are lab results and chain of custody documentation for 4 product pipe trench samples labeled P1, P2, P3 & P4 collected 6/15/90 from under dispensers @ a depth of 6 ft.

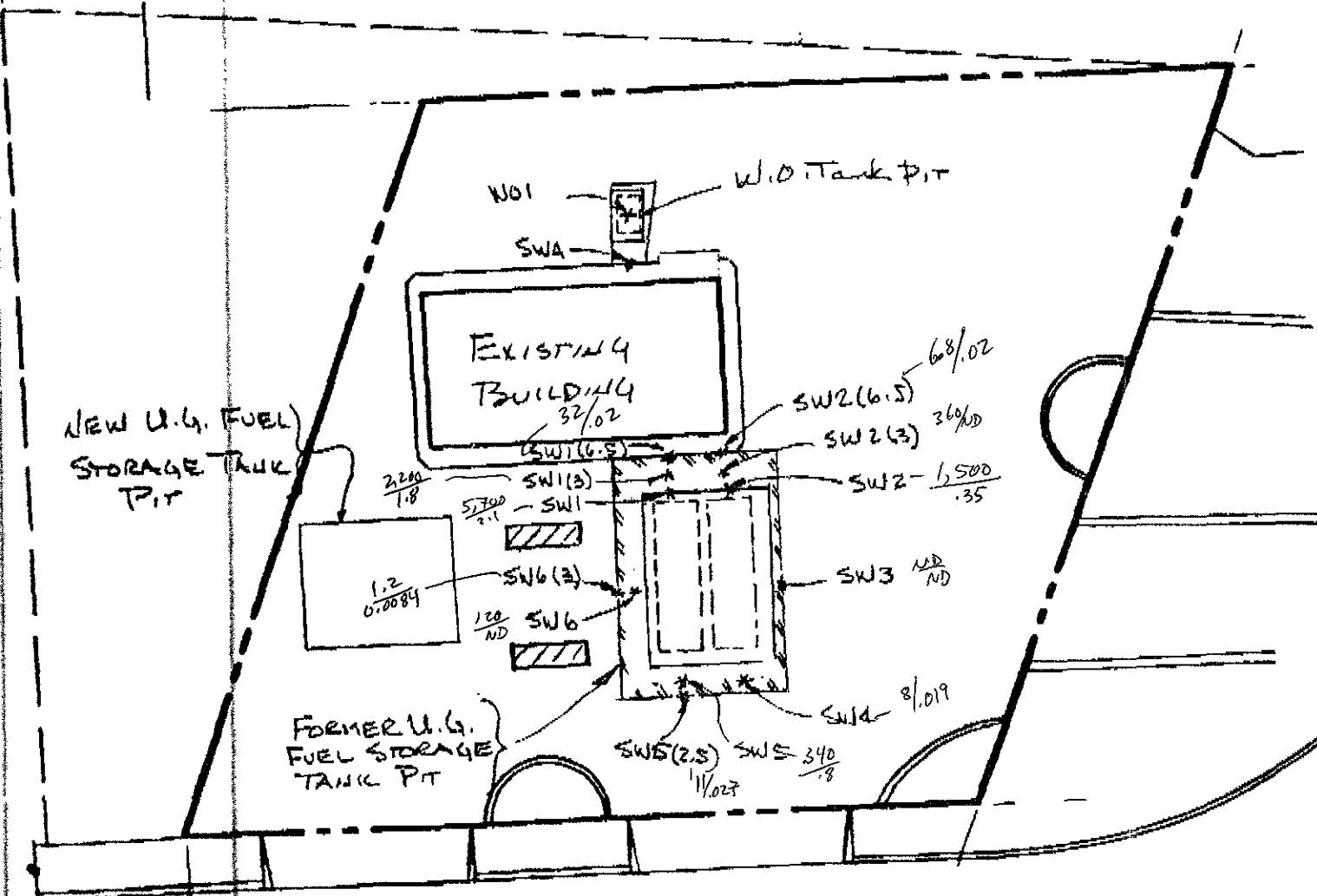
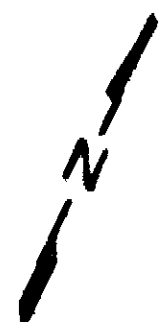
Pipe trench sample point locations are indicated on site plan Figure 6 attached.

Finally attached are lab results & chain of custody documentation for water sample W1 collected from fuel tank pit excavation.

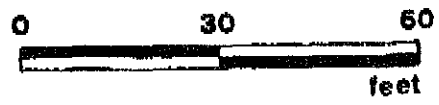


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DUBLIN BLVD



SITE PLAN
 FIGURE 1

TPMg (ppm)
 B

- * SAMPLE POINT LOCATION
- ▣ ADD'L. AREA EXCAVATED

UNOCAL SS#5901
 11976 DUBLIN BLVD
 DUBLIN, CA.

KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY



JUN 21 1990 15:38

SAMPLER <i>R.M. Bradish</i>		SITE NAME & ADDRESS <i>Unocal #5901</i> <i>11976 Dublin Blvd (aka Lane)</i>			ANALYSES REQUESTED <i>TPH-G & BTEX</i>		TURN AROUND TIME: <i>24 HR</i>				
ISSUING AGENCY <i>R. Mulvaney</i> <i>ACHA</i>		<i>Dublin, CA</i>			REMARKS						
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	COMP	CONT.	NO. OF	SAMPLING LOCATION	TPH-G & BTEX	REMARKS
<i>SW1</i>	<i>6-13-90</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<i>1</i>	<i>FUEL TR PIT</i>	<input checked="" type="checkbox"/>	<i>006 1872</i>
<i>SW2</i>	<i>"</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<i>1</i>	<i>" " "</i>	<input checked="" type="checkbox"/>	<i>1873</i>
<i>SW3</i>	<i>"</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<i>1</i>	<i>" " "</i>	<input checked="" type="checkbox"/>	<i>1874</i>
<i>SW4</i>	<i>"</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<i>1</i>	<i>" " "</i>	<input checked="" type="checkbox"/>	<i>1875</i>
<i>SW5</i>	<i>"</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<i>1</i>	<i>" " "</i>	<input checked="" type="checkbox"/>	<i>1876</i>
<i>SW6</i>	<i>"</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<i>1</i>	<i>" " "</i>	<input checked="" type="checkbox"/>	<i>1877</i>

Relinquished by: (Signature) <i>R.M. Bradish</i>	Date/Time <i>6/13/90 5:30</i>	Received by: (Signature) <i>Tim M. Fox</i>	The following MUST BE completed by the Laboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice? <input checked="" type="checkbox"/> 2. Will samples remain refrigerated until analyzed? <input checked="" type="checkbox"/> 3. Did any samples received for analysis have head space? <i>NO</i> 4. Were samples in appropriate containers and properly packaged? <input checked="" type="checkbox"/>
Relinquished by: (Signature) <i>Tim M. Fox</i>	Date/Time <i>6/13/90 7:15</i>	Received by: (Signature) <i>[Signature]</i>	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	

Signature <i>[Signature]</i>	Title <i>SP</i>	Date <i>6/13</i>
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707 748-5581 PAGE 003



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
 (415) 364-9800 • FAX (415) 364-9233

Kaprealian Engineering, Inc.	Client Project ID: Unocal #5901, 11976 Dublin Blvd.	Sampled: Jun 13, 1990
P.O. Box 996	Matrix Descript: Soil	Received: Jun 13, 1990
Benicia, CA 94510	Analysis Method: EPA 5030/8015/8020	Analyzed: Jun 14, 1990
Attention: Mardo Kaprealian, P.E.	First Sample #: 006-1872	Reported: Jun 14, 1990

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)
006-1872	SW1	5,700	2.1	41	110	640
006-1873	SW2	1,500	0.35	0.57	8.0	56
006-1874	SW3	N.D.	N.D.	N.D.	N.D.	N.D.
006-1875	SW4	8.0	0.019	0.088	0.071	0.16
006-1876	SW5	340	0.80	0.26	2.5	3.6
006-1877	SW6	120	N.D.	0.21	0.19	0.14

Detection Limits:

1.0

0.0050

0.0050

0.0050

0.0050

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

SEQUOIA ANALYTICAL

Belinda C. Vega
 Belinda C. Vega
 Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
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Kaprealian Engineering, Inc. P.O. Box 996 Benicia, CA 94510 Attention: Mardo Kaprealian, P.E.	Client Project ID: Unocal #5901, 11976 Dublin, Dublin Matrix Descript: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 006-2335	Sampled: Jun 15, 1990 Received: Jun 15, 1990 Analyzed: Jun 18, 1990 Reported: Jun 18, 1990
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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)
006-2335	SW1 (3)	2,200	1.8	6.3	30	76
006-2336	SW2 (3)	360	N.D.	1.0	3.0	2.0
006-2337	SW3 (2.5)	11	0.027	0.054	0.070	0.12
006-2338	SW5 (3)	1.2	0.0084	0.012	0.012	0.021

Detection Limits:

1.0

0.0050

0.0050

0.0050

0.0050

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

SEQUOIA ANALYTICAL

Belinda C. Vega
 Belinda C. Vega
 Project Manager



KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

JUN 21 1990 15 39

SAMPLE: PM Bradish SITE NAME & ADDRESS: Unocal # 5901
11976 Dublin (San Ramon)
 WITNESSING AGENCY: Dublin CA

TURN AROUND TIME: 24HR

SAMPLE ID NO.	DATE	TIME	NO. OF				SAMPLING LOCATION	ANALYSES REQUESTED	REMARKS
			SOIL	WATER	GRAB	COMP			
SW1(3)	6-15-90		✓	✓	1		FUEL TR PIT	✓	0062335
SW2(3)	"		✓	✓	1		" "	✓	2336
SW5(25)	"		✓	✓	1		" "	✓	2337
SW6(3)	"		✓	✓	1		" "	✓	2338

NOTE: PICK UP WAS FOR 4:15 NOT READY TILL 5:30

Relinquished by: (Signature) <u>PM Bradish</u>	Date/Time <u>6/15/90 5:30</u>	Received by: (Signature) <u>Tom M. Fair</u>
Relinquished by: (Signature) <u>Tom M. Fair</u>	Date/Time <u>6/15/90 7:15</u>	Received by: (Signature) <u>[Signature]</u>
Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)

The following MUST BE completed by the laboratory accepting samples for analysis:

- Have all samples received for analysis been stored in ice? ✓
- Will samples remain refrigerated until analyzed? ✓
- Did any samples received for analysis have head space? NO
- Were samples in appropriate containers and properly packaged? ✓

Signature: [Signature] Title: SR Date: 6/15

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06/21/90 16:53 707 746 5581 KAPREALIAN ENG. 005



SEQUOIA ANALYTICAL

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

Kaprealian Engineering, Inc. P.O. Box 986 Berkeley, CA 94510 Attention: Mardo Kaprealian, P.E.	Client Project ID: Unocal #5901, 11976 Dublin, Dublin Matrix Descript: Soil Analysis Method: EPA 5030/8015/8020 First Sample #: 006-2950	Sampled: Jun 20, 1990 Received: Jun 20, 1990 Analyzed: Jun 21, 1990 Reported: Jun 21, 1990
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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)
006-2950	SW1 (6.6)	32	0.020	0.14	0.13	0.17
006-2951	SW2 (6.6)	6.8	0.020	0.052	0.029	0.063

Detection Limits:

1.0

0.0050

0.0050

0.0050

0.0050

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

SEQUOIA ANALYTICAL

Belinda Vega
 Belinda O. Vega
 Project Manager



KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLER <i>E.M. Bradish</i>		SITE NAME & ADDRESS <i>Unocal #5901 11976 Dublin (San Ramon) Dublin, CA</i>					ANALYSES REQUESTED		TURN AROUND TIME: <i>24 HR</i>
WITNESSING AGENCY									REMARKS <i>0062950 0062951</i>
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	SEAW	COMP	CONF.	SAMPLING LOCATION	
<i>SW1(65)</i>	<i>6-20-90</i>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				<i>Furnace Fuel TR Pt</i>	
<i>SW2(65)</i>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Relinquished by: (Signature) <i>E.M. Bradish</i>		Date/Time <i>6-20-90 5:40</i>		Received by: (Signature) <i>T. Bolan</i>		The following MUST BE completed by the laboratory accepting samples for analysis: 1. Have all samples received for analysis been stored in ice? <i>yes</i> 2. Will samples remain refrigerated until analyzed? <i>yes</i> 3. Did any samples received for analysis have head space? <i>no</i> 4. Were samples in appropriate containers and properly packaged? <i>yes</i>			
Relinquished by: (Signature) <i>T. Bolan</i>		Date/Time <i>6-20-90 1:00</i>		Received by: (Signature)					
Relinquished by: (Signature)		Date/Time		Received by: (Signature)					
Relinquished by: (Signature)		Date/Time <i>6/20/90 1:00</i>		Received by: (Signature) <i>Paul Turner</i>					
						Signature <i>PD</i>		Date <i>6/20/90</i>	



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Kaprealian Engineering, Inc.	Client Project ID: Unocal #5901, 11976 Dublin Blvd, Dublin	Sampled: Jun 13, 1990
P.O. Box 996	Sample Descript.: Soil, WO1	Received: Jun 13, 1990
Benicia, CA 94510	Analysis Method: EPA 5030/8015/8020	Analyzed: Jun 14, 1990
Attention: Mardo Kaprealian, P.E.	Lab Number: 006-1870	Reported: Jun 14, 1990

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

Analyte	Detection Limit mg/kg (ppm)	Sample Results mg/kg (ppm)
Low to Medium Boiling Point Hydrocarbons	1.0	38
Benzene	0.0050	0.091
Toluene	0.0050	0.17
Ethyl Benzene	0.0050	0.38
Xylenes	0.0050	1.6

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

SEQUOIA ANALYTICAL

Belinda C. Vega
Belinda C. Vega
Project Manager



SEQUOIA ANALYTICAL

680 Chesapeake Drive • Redwood City, CA 94063
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Kaprealian Engineering, Inc.
 P.O. Box 996
 Benicia, CA 94510
 Attention: Mardo Kaprealian, P.E.

Client Project ID: Unocal #5901, 11976 Dublin Blvd, Dublin
 Matrix Descript: Soil
 Analysis Method: EPA 3550/8015
 First Sample #: 006-1870

Sampled: Jun 13, 1990
 Received: Jun 13, 1990
 Extracted: Jun 14, 1990
 Analyzed: Jun 14, 1990
 Reported: Jun 14, 1990

TOTAL PETROLEUM FUEL HYDROCARBONS (EPA 8015)

Sample Number	Sample Description	High B.P. Hydrocarbons mg/kg (ppm)
006-1870	WOI	120

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

Belinda C. Vega
 Belinda C. Vega
 Project Manager

Please Note:

The above samples do not appear to contain diesel.



SEQUOIA ANALYTICAL

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Kaprealian Engineering, Inc.	Client Project ID:	Unocal #5901, 11976 Dublin Blvd., Dublin	Sampled:	Jun 13, 1990
P.O. Box 996	Sample Descript:	Soil, WO1	Received:	Jun 13, 1990
Benicia, CA 94510	Analysis Method:	EPA 5030/8010	Analyzed:	Jun 13, 1990
Attention: Mardo Kaprealian, P.E.	Lab Number:	006-1870	Reported:	Jun 14, 1990

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/kg	Sample Results µg/kg
Bromodichloromethane.....	50	N.D.
Bromoform.....	50	N.D.
Bromomethane.....	50	N.D.
Carbon tetrachloride.....	50	N.D.
Chlorobenzene.....	50	N.D.
Chloroethane.....	250	N.D.
2-Chloroethylvinyl ether.....	50	N.D.
Chloroform.....	50	N.D.
Chloromethane.....	50	N.D.
Dibromochloromethane.....	50	N.D.
1,2-Dichlorobenzene.....	100	210
1,3-Dichlorobenzene.....	100	N.D.
1,4-Dichlorobenzene.....	100	N.D.
1,1-Dichloroethane.....	50	N.D.
1,2-Dichloroethane.....	50	N.D.
1,1-Dichloroethene.....	50	N.D.
Total 1,2-Dichloroethene.....	50	N.D.
1,2-Dichloropropane.....	50	N.D.
cis-1,3-Dichloropropene.....	50	N.D.
trans-1,3-Dichloropropene.....	50	N.D.
Methylene chloride.....	100	N.D.
1,1,2,2-Tetrachloroethane.....	50	N.D.
Tetrachloroethene.....	50	N.D.
1,1,1-Trichloroethane.....	50	N.D.
1,1,2-Trichloroethane.....	50	N.D.
Trichloroethene.....	50	N.D.
Trichlorofluoromethane.....	50	N.D.
Vinyl chloride.....	100	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Belinda C. Vega
 Belinda C. Vega
 Project Manager



SEQUOIA ANALYTICAL

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Kaprealian Engineering, Inc.
 P.O. Box 996
 Benicia, CA 94510
 Attention: Mardo Kaprealian, P.E.

Client Project ID: Unocal #5901, 11976 Dublin Blvd, Dublin
 Matrix Descript: Soil
 Analysis Method: EPA 418.1 (I.R. with clean-up)
 First Sample #: 006-1870

Sampled: Jun 13, 1990
 Received: Jun 13, 1990
 Extracted: Jun 14, 1990
 Analyzed: Jun 14, 1990
 Reported: Jun 14, 1990

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS

Sample Number	Sample Description	Petroleum Oil mg/kg (ppm)
006-1870	WOT	1,500
006-1871	SWA	3,500

Detection Limits:

50

Analytes reported as N.D. were not present above the stated limit of detection. Because matrix effects and/or other factors required additional sample dilution, detection limits for this sample have been raised.

SEQUOIA ANALYTICAL

Belinda C. Vega
 Belinda C. Vega
 Project Manager

JUN 21 90 15:44



KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

06/21/90 16:58 707 746 5581 KAPREALIAN INC.

SAMPLE ID NO.		DATE	TIME	SOIL	WATER	GRAB	COMP	NO. OF CONT.	SAMPLING LOCATION	ANALYSES REQUESTED	TURN AROUND TIME:	
K.M. Bradish		Unocal #5901 11976 Dublin Blvd (San Ramon) Dublin, CA										24HR
W01		6-13-90		✓	✓			1	W.O. TR PIT	TPH-G ABUSE TPH-D TOG 413		
SWA		"		✓	✓			1	" " "	8010		
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		<p>The following MUST BE completed by the laboratory accepting samples for analysis:</p> <p>1. Have all samples received for analysis been stored in ice? <input checked="" type="checkbox"/></p> <p>2. Will samples remain refrigerated until analyzed? <input checked="" type="checkbox"/></p> <p>3. Did any samples received for analysis have head space? <input checked="" type="checkbox"/></p> <p>4. Were samples in appropriate containers and properly packaged? <input checked="" type="checkbox"/></p>						
K.M. Bradish		6/13/90 5:35		Tom M' Lane								
Relinquished by: (Signature)		Date/Time		Received by: (Signature)								
Tom M' Lane		6/13 7:15		[Signature]								
Relinquished by: (Signature)		Date/Time		Received by: (Signature)								
Relinquished by: (Signature)		Date/Time		Received by: (Signature)								

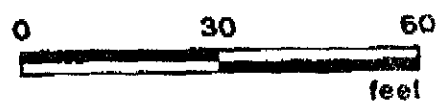
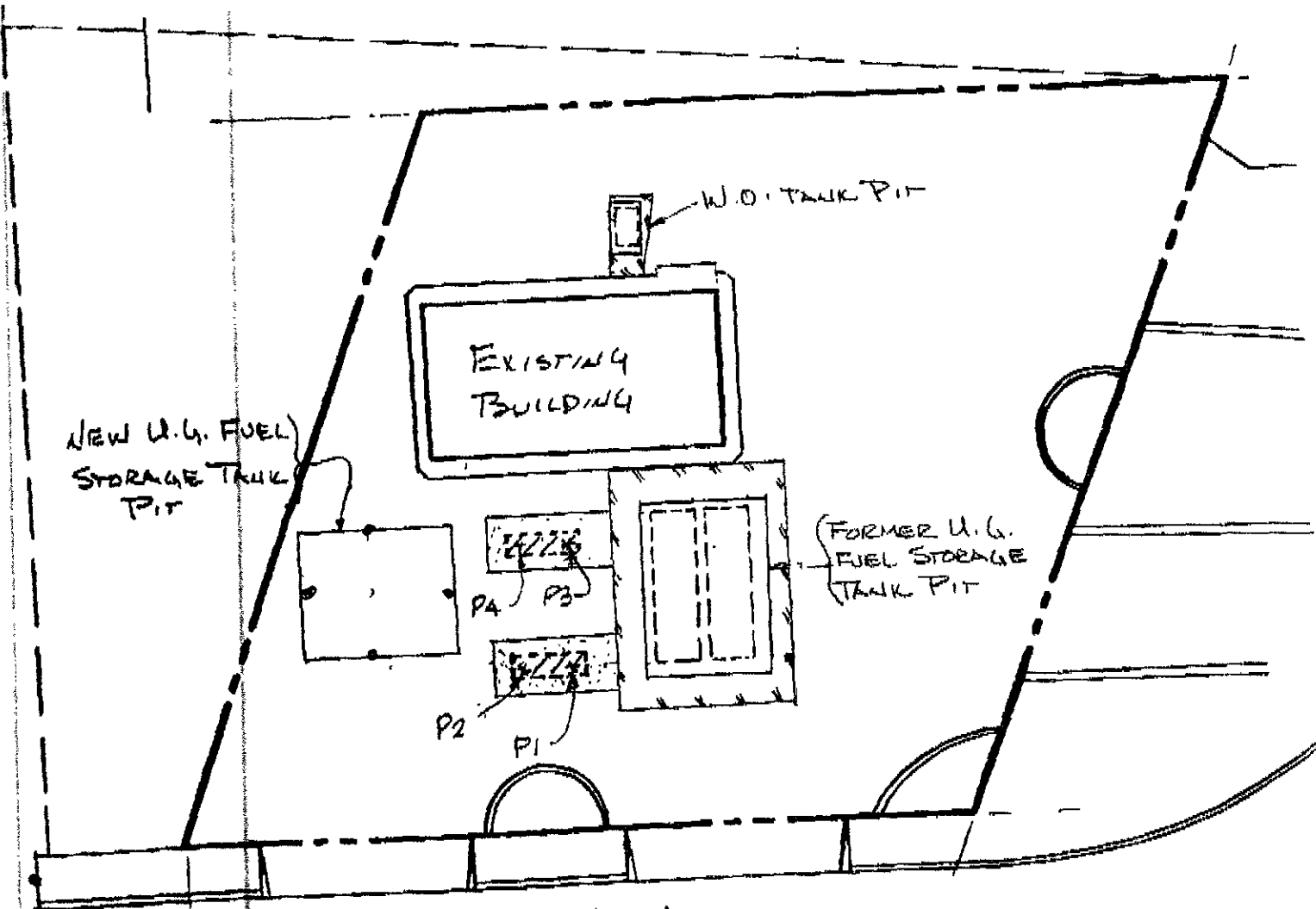
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Consulting Engineers

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DUBLIN BLVD

SITE PLAN
FIGURE 2

- * SAMPLE POINT LOCATION
- ▨ AREA OF ADD'L TANK PIT EXCAVATION
- ▨ AREA OF ADD'L PIPE TRENCH EXCAVATION

UNOCAL SS# 5901
11976 DUBLIN BLVD
DUBLIN, CA



SEQUOIA ANALYTICAL

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

Kaprealian Engineering, Inc.

P.O. Box 996

Benicia, CA 94510

Attention: Mardo Kaprealian, P.E.

Client Project ID:

Matrix Descript:

Analysis Method:

First Sample #:

Unocal #5901, 11976 Dublin, Dublin

Soil

EPA 5030/8015/8020

006-2339

Sampled: Jun 15, 1990

Received: Jun 15, 1990

Analyzed: Jun 18, 1990

Reported: Jun 18, 1990

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)
006-2339	P1	2.5	0.099	0.079	N.D.	0.034
006-2340	P2	37	0.78	0.14	0.43	3.8
006-2341	P3	8.5	0.028	0.016	0.36	0.080
006-2342	P4	16	0.091	N.D.	0.52	1.3

Detection Limits:

1.0

0.0050

0.0050

0.0050

0.0050

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

SEQUOIA ANALYTICAL

Belinda C. Vega
 Belinda C. Vega
 Project Manager

11/11/00



KAPREALIAN ENGINEERING, INC.

CHAIN OF CUSTODY

SAMPLE		SITE NAME & ADDRESS		ANALYSES REQUESTED		TURN AROUND TIME:			
R.M. Braden		Unseal #5901 11976 Dublin (x Southman) Dublin, CA		TAP-6 1/378		24 HR			
WITNESSING AGENCY									
SAMPLE ID NO.	DATE	TIME	SOIL	WATER	GRAB	NO. OF CONT.	SAMPLING LOCATION	ANALYSES REQUESTED	REMARKS
P1	6-15-90		✓	✓		1	Pipe Trench	✓ 0062339	NOTE pick up for 4:15 But not ready till 5:30
P2	"		✓	✓		1	" "	✓ 2340	
P3	"		✓	✓		1	" "	✓ 2341	
P4	"		✓	✓		1	" "	✓ 2342	
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			The following MUST BE completed by the laboratory accepting samples for analysis:	
R.M. Braden			6/15/90 5:30		Tim M'Leary			1. Have all samples received for analysis been stored in ice? <input checked="" type="checkbox"/>	
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			2. Will samples remain refrigerated until analyzed? <input checked="" type="checkbox"/>	
Tim M'Leary			6/15/90 5:30		[Signature]			3. Did any samples received for analysis have head space? <input checked="" type="checkbox"/>	
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			4. Were samples in appropriate containers and properly packaged? <input checked="" type="checkbox"/>	
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Signature: [Signature] Title: [Signature] Date: 6/15	



SEQUOIA ANALYTICAL

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

Kaprealian Engineering, Inc.	Client Project ID: Unocal #5901, 11978 Dublin, Dublin	Sampled: Jun 20, 1990
P.O. Box 996	Sample Descript.: Water, W1	Received: Jun 20, 1990
Benicia, CA 94510	Analysis Method: EPA 5030/ 8015/8020	Analyzed: Jun 21, 1990
Attention Mardo Kaprealian, P.E.	Lab Number: 006-2995 A-B	Reported: Jun 21, 1990

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

Analyte	Detection Limit µg/L (ppb)	Sample Results µg/L (ppb)
Low to Medium Boiling Point Hydrocarbons	0.30	2.300
Benzene	0.30	0.1
Toluene	0.30	0.55
Ethyl Benzene	0.30	0.38
Xylene	0.30	0.1

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

SEQUOIA ANALYTICAL

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Project Manager

