### Shell Oil Company



P.O. Box 7004 3468 Mt. Diablo Blvd. Suite B103 Lafayette, CA 94549

Telephone: (415) 283-4200

January 8, 1986

Mr. Dale Boyer California Water Quality Control Board 1111 Jackson Street, Room 6040 Oakland, CA 94607

Dear Mr. Boyer:

Subject: Underground Tank Replacement at

Shell Station 4226 First Avenue Pleasanton, CA

Enclosed are soil and groundwater investigation results at the above site at which we propose to replace the existing underground gasoline tanks and waste oil tanks with double walled fiberglass tanks. This is part of Shell's planned program to replace unprotected steel tanks with fiberglass.

We propose to install our three new fiberglass tanks in a location which is southeast of the existing tanks (see attached sketch).

Due to results of the soil analysis and existing site conditions, we request approval to remove the existing tanks and allow the moderately contaminated soil to remain in the existing excavation. We further propose to install an additional monitoring well in the existing tank hole excavation after compaction. Well S-1 and the new additional monitoring well will be monitored every six months.

We will appreciate your review and approval of this proposal. Please contact me at (415) 283-4200 should you have any questions.

Very truly yours,

S. J. Roller Project Engineer

SJR: jm

Enclosure



#### RECEIVED

MUV : > (985

GETTLER-RYAN INC.

November 12, 1985 Project 738-60.01

Gettler-Ryan, Incorporated 1992 National Avenue Hayward, California 94545

Attention: Mr. Jeffrey M. Ryan

Re: Shell Service Station, 4226 First Street and Vineyard Avenue, Pleasanton, California

Gentlemen:

This letter presents the results of a soil and ground-water investigation conducted by EMCON Associates at the Shell service station located at 4226 First Street in Pleasanton, California. The purpose of this investigation was to examine soil and ground-water conditions adjacent to the subsurface product storage tanks located at the site.

FIELD INVESTIGATION PROCEDURES

Five exploratory borings (S-A through S-D, and S-1) were drilled at the locations shown on Figure 1. The borings were drilled using continuous-flight hollow-stem or solid-stem auger drilling equipment and were logged by an EMCON geologist. Soil samples for logging were obtained from auger-return materials and by advancing a modified California split-spoon sampler into undisturbed soil beyond the tip of the auger. Soil samples for chemical analysis were sealed in glass containers, packed on ice, and delivered directly to an independent laboratory as authorized by Gettler-Ryan. Laboratory results accompany this report.

Upon completion, Borings S-A through S-D were backfilled with concrete and/or soil cuttings to a depth of 1/2-foot and cement to the ground surface. Due to difficulty in penetrating stiff clay and gravels at depth, water had to be introduced inside the augers as a lubricant during drilling of Borings S-A through S-D. Upon completion, standing water which may have been a result of this lubrication was measured in Boring S-B at a depth of 23 feet. However, because standing water was noted in Boring S-B, Boring S-1 was drilled downgradient of the tank complex and converted to a ground-water monitoring well by the installation of 3-inch-diameter PVC casing. Boring abandonment and well construction details accompany the attached Exploratory Boring Logs.

Gettler-Ryan, Incorporated November 12, 1985 Page 2

#### SITE CONDITIONS

Boring S-A was placed adjacent to the subsurface waste oil tank. ings. S-B. S-C. and S-D were placed within the subsurface gas line storage tank complex. Ground-water monitoring Well S-1 was placed downgradient of the subsurface gasoline storage tank complex. Subsurface conditions explored during drilling ranged in depth from 20 to 30-1/2 feet. Boring S-A encountered gravelly silt fill to a depth of 2 feet, underlain by clay to the total depth explored of 20 feet. Borings S-B, S-C, and S-D encountered sand fill to a depth of 10-1/2 feet, underlain by primarily clay and clayey gravel to the total depth explored. Ground-water monitoring Well S-1 encountered clayey sand to a depth of 13 feet, underlain by clay and clayey gravel to the total depth explored. Ground water has not been noted in Monitoring Well S-1 since completion.

No product odor was noted in soils collected from Boring S-A. Gaseline odor was noted in soil to depths of 24-1/2 feet in Boring S-B, 28 feet in Boring S-C, and 22-1/2 feet in Borings S-D and S-1.

LABORATORY INVESTIGATIONS AND RESULTS

Soil collected from the depth interval of 7 to 8-1/2 feet in Boring S-A was analyzed for the presence of waste oil. No waste oil was detected.

Selected soil samples from Borings S-B, S-C, and S-D were analyzed for the presence of gasoline. Soil collected from Boring S-B contained gasoline concentrations of 2 parts per million (ppm) at the depth interval of 3-1/2 to 5 feet, 460 ppm at the depth interval of 7 to 8-1/2 feet, 610 ppm at the depth interval of 10-1/2 to 12 feet, 1,300 ppm at the depth interval of 14 to 15-1/2 feet, and none detected at the depth interval of 19 to 20-1/2 feet. Gasoline was not detected in soils collected from the depth interval of 10-1/2 to 12 feet in Borings S-C and S-D.

If you have any questions regarding the contents of this letter, please do not hesitate to call.

ORAFT

Very truly yours,

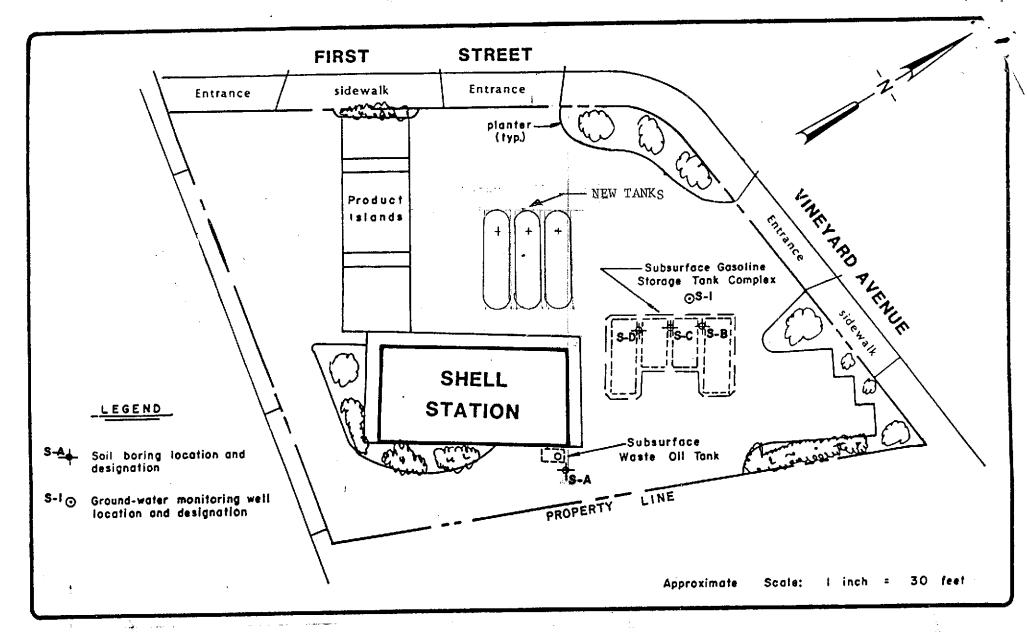
**EMCON** Associates

Michael G. Burns Staff Geologist

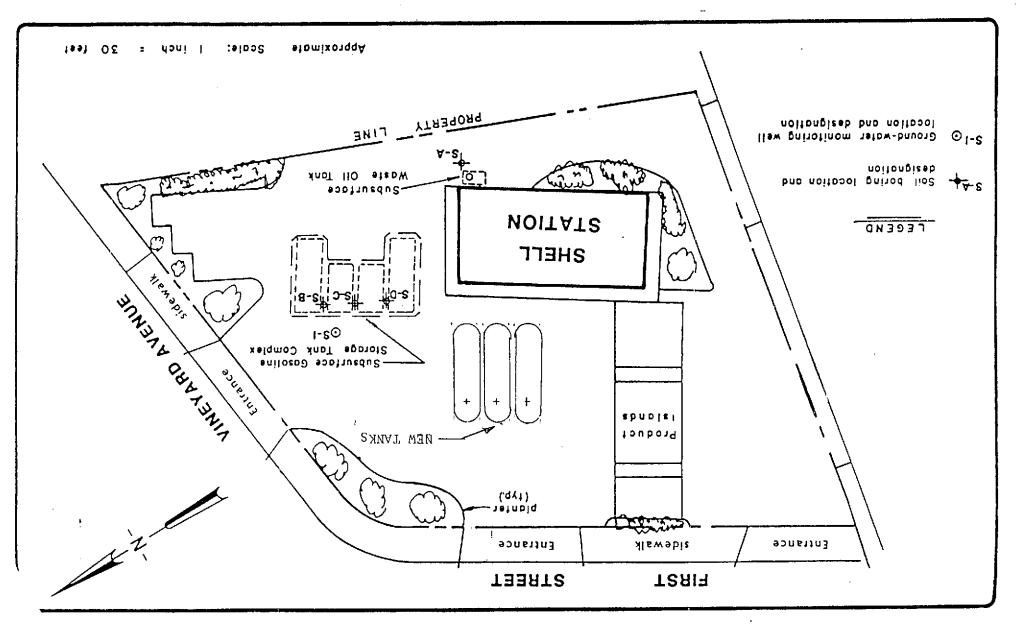
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Enclosures

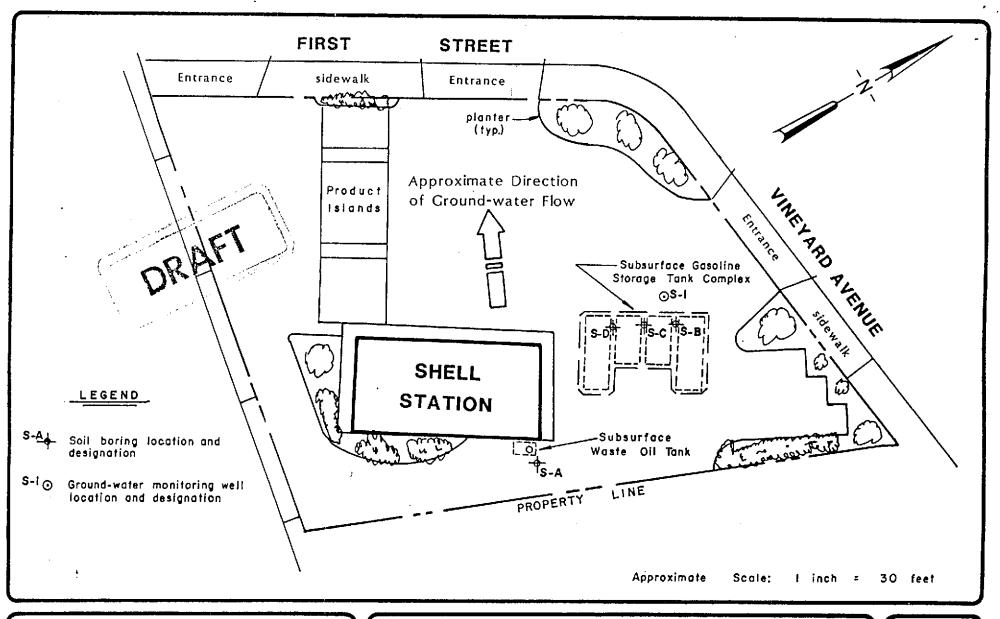
Susan M. Willhite Project Geologist



SHELL STATION 4226 FIRST ST. PLEASANTON, CA



SHELL STATION CAPELL ST.





San Jose, California

GETTLER-RYAN, INC.
SUBSURFACE HYDROGEOLOGIC INVESTIGATION
SHELL STATION, FIRST STREET AND VINEYARD AVENUE
PLEASANTON, CALIFORNIA

SOIL BORING AND MONITORING WELL LOCATION MAP

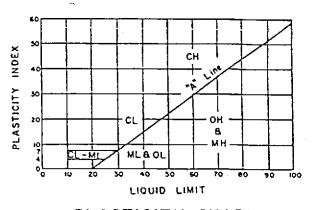
FIGURE PROJECT NO.

738 - 60,01

M.	AJOR DIVISIONS	SYMBOLS	TYPICAL SOIL DESCRIPTIONS				
		GW	Well graded gravels or gravel—sand mixtures, little or no fines				
ILS sieve size)	GRAVELS	GP	Poorly graded gravels or gravel-sand mixtures, little or no fines				
88	(More than I/2 of coarse fraction ) no. 4 sleve size)	GM (C	Sitty gravels, gravel-sand-sitt mixtures				
RAINED soil ) no. 2		GC 🥳	Clayey gravels, gravel-sand-clay mixtures				
0 4	•	SW	Well graded sands or gravelly sands, little or no fines				
COARSE Than 1/2	SANDS	SP	Poorly graded sands or gravelly sands, little or no fines				
(More	(More than 1/2 of coarse fraction ( no. 4 sieve size)	<b>s</b> м	Silty sands, sand-silt mixtures				
		sc	Clayey sands, sand-clay mixtures				
re size)	SILTS & CLAYS	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity				
SOILS 200 sieve	LL (50	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silly clays, lean clays				
GRAINED S		OL	Organic sitts and organic sitty clays of low plantity				
G B	SILTS & CLAYS	мн	Inorganic silts, micaceous or destimaceous fine sandy of silty soils,				
FINE than 1/2	LL>50	сн	Inorganic clays of high plasticity, for clays				
(More		он	Organic clays of medium to high plasticity, organic silty clays, organic silts				
Н	IGHLY ORGANIC SOILS	Pt	Peat and other highly organic soils				

## CLASSIFICATION CHART (Unified Soil Classification System)

CLASSIFICATION	RANGE OF GI	RAIN SIZES
	U.S. Standard Sieve Size	Grain Size in Millimeters
BOULDERS	Above 12"	Above 305
COBBLES	12" to 3"	305 to 76.2
GRAVEL coarse fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76
SAND coarse medium fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 2.00 2.00 to 0.420
SILT & CLAY	Below No. 200	Below 0,074



PLASTICITY CHART

GRAIN SIZE CHART

METHOD OF SOIL CLASSIFICATION



NOTES:

Logs of Exploratory Borings

2.5 YR 6/2

Denotes color as field checked to Munsell Soil Color Charts (1975 Edition)

慧

Denotes undisturbed sample taken in 2-inch split-spoon sampler.

X

Denotes disturbed sample (bag sample).

 $\nabla$ 

Denotes first observation of ground water.

B

Denotes static ground-water level.

Penetration

Sample drive hammer weight - 140 pounds, drop - 30 inches. Blows required to drive sampler 1 foot are indicated on the logs.

PROJECT NUMBER 738-60.01

BORING NO. S-A

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MGB

DATE 9/27/85

SURFACE ELEV. 375'+

	סטויו	T	116	1/4/	/85	· · · · · · · · · · · · · · · · · · ·	SURFACE ELEV. 375'±
TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	CROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
	1.5	88		10- 15- 20- 25- 30- 35-	2	ML CL	ASPHALT and SAND - Fill GRAVELLY SILT - Fill; black (5Y, 2.5/2); 20% fine to coarse sand; 10% fine gravel; damp; no product odor.  CLAY; light olive brown (2.5Y, 5/6); silty; 10% fine to medium sand; stiff; damp; no product odor.  @7': no sand; hard; no product odor.  @10': 20% fine gravel; no product odor.  @14': 15-20% fine to medium sand; trace fine gravel; stiff; moist; no product odor.  @18½': brownish yellow (10YR, 6/8); silty; hard; moist; no product odor.  BOTTOM OF BORING AT 20 FEET.

REMARKS Drilled by 5-inch continuous flight auger; samples collected with 2-inch California modified split-spoon sampler; borehole backfilled with soil cuttings to 15 foot; concrete to surface.



PROJECT NUMBER 738-60.01

BORING NO. S-B

PROJECT NAME Gettler-Ryan, Shell, 4226 First St. , Pleasanton PAGE  $_1$  OF  $_1$ MGB DATE 9/27/85

POCKET PENETRA- TION METER (TSF)  PUSh  Push  Push  GRAPHC COLUMN  CONCRETE.  SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; loose; damp; strong gasoline odor.  2  QUENCE TE SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; loose; damp; strong gasoline odor.  QUENCE TE CONCRETE SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; loose; damp; strong gasoline odor.  QUENCE TE CONCRETE CONCRETE SAND - Fill; very dark gray (5Y, 5/2); fine to coarse grained; loose; damp; strong gasoline odor.  QUENCE TE CONCRETE SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; loose; damp; strong gasoline odor.	BY	MGB	D/	AIE :	7/2/	/გე	·	SURFACE ELEV. 373'±
Push  Push  GC  GC  SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; loose; damp; strong gasoline odor.  Of: strong gasoline odor.  CLAYEY GRAVEL; olive gray (5Y, 5/2); to olive (5Y, 4/3); fine to coarse	1	PENETRO- METER	TION (Blows/	CROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	GRAPHIC	DESCRIPTION
coarse sand; very dense; damp; moderate gasoline odor.  CLAY; light olive brown (2.5Y, 5/6) to dark grayish brown (2.5Y, 4/2); 15% fine sand; trace coarse sand; very stiff; damp; no gasoline odor. @19': olive gray (5Y, 4/2) to olive (5Y, 5/6); 20% fine to medium		2.3	2 64 39 41 50for		20 25 30 35			SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; loose; damp; strong gasoline odor.  07': strong gasoline odor.  CLAYEY GRAVEL; olive gray (5Y, 5/2); to olive (5Y, 4/3); fine to coarse grained; 30% fines; 15% fine to coarse sand; very dense; damp; moderate gasoline odor.  CLAY; light olive brown (2.5Y, 5/6) to dark grayish brown (2.5Y, 4/2); 15% fine sand; trace coarse sand; very stiff; damp; no gasoline odor.  019': olive gray (5Y, 4/2) to olive (5Y, 5/6); 20% fine to medium sand; no coarse sand; no gasoline odor.  024': olive (5Y, 4/4); 25% fine to coarse sand; very plastic; soft; faint gasoline odor.  BOTTOM OF BORING AT 24½ FEET.

REMARKS Drilled by 8-inch continuous flight, hollow stem auger; samples collected with 2-inch California modified split-spoon sampler; borehole backfilled with soil cuttings to  $\frac{1}{2}$  foot; concrete to surface.



PROJECT NUMBER 738-60.01

BORING NO. S-C

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MGB DATE 9/27/85

SURFACE ELEV. 373'±

3,72,703						·		SURFACE ELEV. 3/3'±		
TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	CROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITH GRAP COLL	HIC	DESCRIPTION		
	0.4	Push 2 30 50for 6" 19		25	(1) (2) (3) (4) (5) (6) (7)	CL GC CL SWIJC		CONCRETE.  SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; damp; strong gasoline odor.  @7': loose; strong gasoline odor.  @7': loose; strong gasoline odor.  CLAY; olive (5Y, 5/6, 5/3); 20% fine to coarse sand; silty; hard; damp; no gasoline odor.  CLAYEY GRAVEL; olive (5Y, 5/6, 5/4); fine grained; 35% fine to coarse sand; 15% fines; very dense; damp; no gasoline odor.  CLAY; yellowish brown (10YR, 5/6, 5/8); 35% fine to coarse sand; silty; soft; moist; no gasoline odor.  SAND: olive (5Y, 4/3); fine to coarse grained; 10% fines; medium dense; moist; no gasoline odor.  SANDY SILT; light olive brown (2.5Y, 5/6) 40% fine sand; very stiff; moist; no gasoline odor.  CLAYEY SAND; olive brown (2.5Y, 4/4); fine to coarse grained; 40% clay; dense moist; faint gasoline odor.  BOTTOM OF BORING AT 28 FEET		
				4 <del>0</del>				·		

REMARKS Drilled by 8-inch continuous flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler; borehole backfilled with concrete from 28 to 15 feet, soil cuttings to  $\frac{1}{2}$  foot; concrete to surface.



PROJECT NUMBER 738-60.01

BORING NO. S-D

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE  $_1$  OF  $_1$ 

BY MGB

DATE 9/27/85

SURFACE ELEV. 374'+

TORVANE PENETRATION (ISF)  PENETRATION (Blows/ FL)  PENETRATION (Blows/ FL)  PENETRATION (Blows/ FL)  PENETRATION (Blows/ FL)  PENETRATION (CRAPHIC COLUMN  COLUMN  CONCRETE.  SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; 15% fine gravel		PIGD	<i>U7</i>	115 5	767	/ 00		SURFACE ELEV. 374'±
CONCRETE. SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; 15% fine gravel trace fines; loose; damp; strong gasoline odor.  2	<b>!</b> !	PENETRO- METER	TION (Blows/	GROUND WATER LEVELS		SAMPLES	GRAPHIC	
		5	2 37 44		10- 15- 20- 25- 30-	(1) (2) (3) (4)	CL CL	SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; 15% fine gravel; trace fines; loose; damp; strong gasoline odor.  @7': strong gasoline odor.  @67': strong gasoline odor.  CLAY; olive yellow (5Y, 6/8) to olive (5Y, 4/3); 20% fine to coarse sand; silty; hard; damp; faint gasoline odor.  @14': olive (5Y, 4/3); 35% fine to coarse sand; 10% fine gravel; faint gasoline odor.  @19': olive (5Y, 4/3); to gray (5Y, 5/1); 20% fine to medium sand; slightly silty; very stiff; damp; faint gasoline odor.  SANDY SILT; olive (5Y, 4/4); 40% fine sand; slightly clayey; stiff; damp; faint gasoline odor.  BOTTOM OF BORING AT 22½ FEET.

REMARKS Drilled by 8-inch continuous flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler; borehole backfilled with concrete from 22½ to 11½ feet, soil cuttings to ½ foot ; concrete to surface.



PROJECT NUMBER 738-60.01

BORING NO. \$-1

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MG

DATE 9/27/85

SURFACE ELEV. 373'±

3/12 3/2/760							SORFACE ELEV, 3/3 ±		
TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	CROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION		
	4.25	34 28 57		5 - 10 25 35 35 35 35 35 35 35 35 35 35 35 35 35	3	SW SC GG	ASPHALT and GRAVEL - Fill SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; 10% fine gravel trace fines; damp; moderate gasoline odor.  CLAYEY SAND; very dark gray (5Y, 3/1); fine to coarse grained; damp; moderate gasoline odor.  @12½': 10% fine gravel.  CLAY; light olive brown (2.5Y, 5/6); 5% fine to coarse sand; silty; hard; damp; faint gasoline odor.  @19': 20% fine to coarse sand; silty; very stiff; faint gasoline odor.  CLAYEY GRAVEL; olive (5Y, 5/4); fine grained; 35% fine to coarse sand; clayey; very dense; damp; no gasoline odor.  @29': no gasoline odor.  BOTTOM OF BORING AT 30½ FEET.		

REMARKS Drilled by 8-inch continuous flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler; borehole converted to 3-inch monitoring well as detailed on Plate F.



### WELL DETAILS



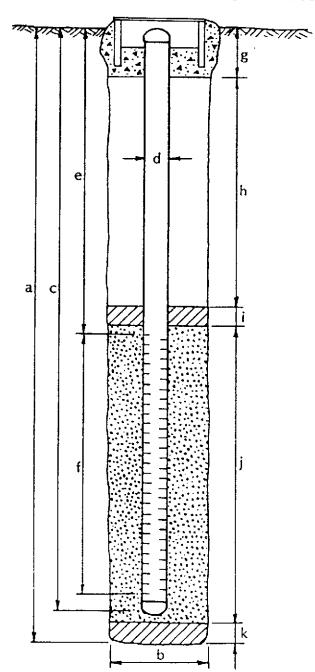
PROJECT NUMBER_	738-60.01	ВО
PROJECT NAME	Gettler-Ryan, Shell	TOP (
COUNTY	Alameda	GROUNI
WELL PERMIT NO		DATIMA

BORING / WELL NO. S-1

TOP OF CASING ELEV. 373'±

DATUM MSL

G-5 vault box (Std.)



#### EXPLORATORY BORING

a. Total depth 30½ ft.
b. Diameter 8 in.

Drilling method Hollow-Stem Auger

#### WELL CONSTRUCTION

	ELL CONSTRUCTION		
c.	Casing length	28 <del>1</del>	_fı
	Material Schedule 40 PVC		
d.	Diameter	3	_ir
e.	Depth to top perforations	14	_ft
f.	Perforated length	141	_ft
	Perforated interval from 14 to	28 <del>1</del>	_ft
	Perforation type Machined ST	ot	
	Perforation size0.020 inch		
g.	Surface seal	11	_ft
	Seal material Concrete		
h.	Backfill	10	_ft
	Backfill material Concrete		
i.	Seal	1	_ft
	Seal material Bentonite		
j.		16 <del>1</del>	ft.
	Pack material Coarse Aquariu	ım¹Sar	ıd
k.	Bottom seal Seal material		ft.
TOP	E: Caved to 28½ feet.		_



Emcon Associates 1921 Ringwood Ave San Jose, CA 95131

October 23, 1985

ATTN: Erin Garner

Following are the results of analyses on the samples described below.

Project Number: 738-60.01

Lab Numbers: 32810, 32813-32818,32821

Number of Samples: 8 Sample Type: soils Date Received: 10-1-85

Analyses Requested: volatile, semi-volatile and

non-volatile fuel hydrocarbons

The method of analysis for volatile fuel hydrocarbons is taken from E.P.A. Methods 8015 and 5030. The samples are examined using the purge and trap technique. Final detection is by gas chromatography using a flame ionization detector as well as a photoionization detector.

The method of analysis for semi-volatile and non-volatile fuel hydrocarbons in soil involves extracting the samples with acetone. The mixture is partitioned with hexane and the resulting extracts are examined by gas chromatography using a flame ionization detector.

Res		1	+	~
ROS.	u		т	~

Parts per Million- dry soil basis -----Semi- and Non-volatile Fuel Number Identification Hydrocarbons

(calculated as oil)

none detected

Detection Limit

Sample

32810 GR Shell 9-27-85

S-A 1 @ 7-8.5

2Ø.

PLM/mdf

Lab

IT/Santa Clara to Emcon ATTN: Erin Garner

October 23, 1985 Page 1 of 7

Lab Number: 32813

Sample Identification: GR Shell 9-27-85

S-B 1 @ 3.5-5

nd = none detected

Results

Compound	Detected	Detection Limit
Volatile Fuel Hydrocarbons (calculated as gasoline & includes benzene, toluene, xylenes and ethyl benzene)	2.	
Benzene	nd	Ø.1
Toluene	nd	Ø.1
Xylenes and ethyl benzene	nd ~	Ø.4

IT/Santa Clara to Emcon ATTN: Erin Garner

October 23, 1985 Page 2 of 7

Lab Number: 32814

Sample Identification: GR Shell 9-27-85

S-B 2 @ 7-8.5

nd = none detected

#### Results

Compound	Detected	Detection Limit
Volatile Fuel Hydrocarbons (calculated as gasoline & includes benzene, toluene, xylenes and ethyl benzene)	4600	
Benzene	nd	2.
Toluene	. 2.	
Xylenes and ethyl benzene	32. ~	

IT/Santa Clara to Emcon ATTN: Erin Garner

October 23, 1985 Page 3 of 7

Lab Number: 32815

Sample Identification: GR Shell 9-27-85

S-B 3 @ 10.5-12

nd = none detected

#### Results

	<del></del>	
Compound	Detected	Detection Limit
Volatile Fuel Hydrocarbons (calculated as gasoline & includes benzene, toluene, xylenes and ethyl benzene)	610.	
Benzene	nd	2.
Toluene ·	3.5	
Xylenes and ethyl benzene	63.	

IT/Santa Clara to Encon ATTN: Erin Garner

October 23, 1985 Page 4 of 7

Lab Number: 32816

Sample Identification: GR Shell 9-27-85

S-B 4 @ 14-15.5

nd = none detected

#### Results

Campound	Detected	Detection Limit	
Volatile Fuel Hydrocarbons (calculated as gasoline & includes benzene, toluene, xylenes and ethyl benzene)	1,300.		
Benzene	nd	2.5	
Toluene	9,6		
Xylenes and ethyl benzene	260.	<del></del>	

IT/Santa Clara to Emcon ATTN: Erin Garner

October 23, 1985 Page 5 of 7

Lab Number: 32817

Sample Identification: GR Shell 9-27-85

S-B 5 @ 19-20.5

nd = none detected

#### Results

Compound	Detected	Detection Limit
Volatile Fuel Hydrocarbons (calculated as gasoline & includes benzene, toluene, xylenes and ethyl benzene)	nd	2.
Benzene	nd	Ø.1
Toluene	nd	0.1
Xylenes and ethyl benzene	nd .	Ø.4

IT/Santa Clara to Emcon ATTN: Erin Garner

October 23, 1985 Page 6 of 7

Lab Number: 32818

Sample Identification: GR Shell 9-27-85

S-C 3 @ 10.5-12

nd = none detected

#### Results

Campound	Detected	Detection Limit
Volatile Fuel Hydrocarbons (calculated as gasoline & includes benzene, toluene, xylenes and ethyl benzene)	<b></b>	2.
Benzene	nd	Ø <b>.</b> 1
Toluene	, nd	Ø.1
Xylenes and ethyl benzene	nd ~	Ø . 4

IT/Santa Clara to Emcon ATTN: Erin Garner

October 23, 1985 Page 7 of 7

Lab Number: 32821

Sample Identification: GR Shell 9-27-85

S-D 3 @ 10.5-12

nd = none detected

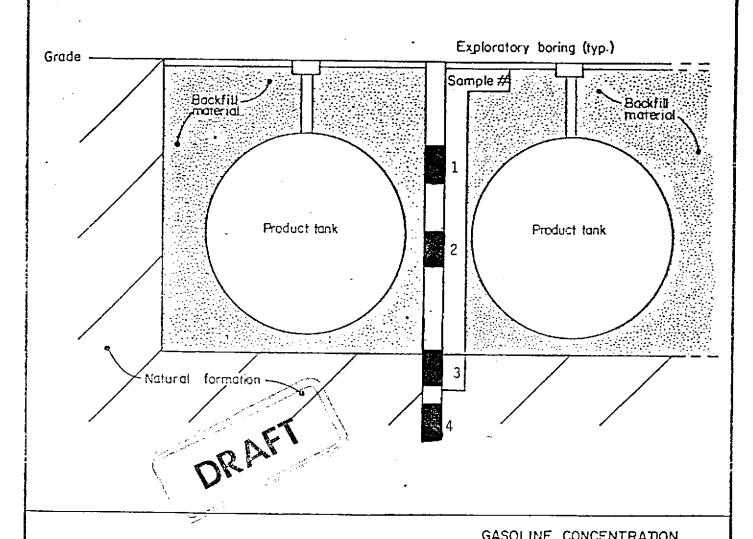
#### Results

Compound	Detected	Detection Limit
Volatile Fuel Hydrocarbons (calculated as gasoline & includes benzene, toluene, xylenes and ethyl benzene)	nd:	
Benzene	nd	2. Ø.1
Toluene ·	nd	Ø.1
Xylenes and ethyl benzene	nd	Ø <b>.</b> 4



#### GETTLER-RYAN, INC.

# GENERALIZED PROFILE OF SUBSURFACE TANK COMPLEX AND GASOLINE CONCENTRATIONS WITHIN BACKFILL MATERIAL



SAMPLE #	BORING	DEPTH INTERVAL	( parts per million )
1	<u> S-B</u>	3 12 - 5	2
2	<u>S-8</u>	<u>7' - 8 ½'</u>	460
3	S_B	10 ½ - 12	610
4	S-B	14' - 1512'	1,300
		Detection Limit	2