WINZLER & KELLY

633 Third Street/P.O. Box 1345/Eureka, CA 95501/707-443-8326/Fax: 707-444-8330

Refer to: 90-140-A30

August 13, 1990

Mr. Frank Dutra
1964 St. Maru Drive
McKinleyville, CA 95521

Subject: Underground Storage Tank Excavation at Dutra Trucking Company

Dear Mr. Dutra:

This letter is intended to serve as our report on the excavation of the underground tanks previously located at Dutra Trucking. Dutra Trucking is located at 5005 Boyd Road, Arcata CA. The site location is shown in Figures 1 and 2. Boyd Road is situated near the intersection of Giuntoli Road and Hwy 299. The local vicinity is primarily industrial and commercial. There is a residential trailer park located roughly 800 feet to the southwest of the site. The nearest surface water is the Mad River, located between 500 and 550 feet northwest of the previous tank locations.

On May 14 and 15, 1990, Winzler & Kelly observed the removal of five underground storage tanks and the excavation of approximately 240 cubic yards of diesel contaminated soil. The tanks were removed under closure permit #115889, issued by the Humboldt County Public Health Department on 7/31/89. The previous tank locations are shown on Figures 3 and 4. The tanks were as follows:

Tank	Volume	Product Stored	Construction Material	Condition at Time of Removal
1	7,500 gal	Gasoline	Steel	Good
2	6,300 gal	Diesel	Steel	Good
3	5,000 gal	Diesel	Steel	Good
4	10,000 gal	Diesel	Steel	Good
5	10,000 gal	Diesel	Steel	Good

The tanks had been leak tested on June 14, 1988. All five tanks met the NFPA criterion for tank tightness. Copies of the tank testing reports are attached.

During the tank removal, soil contamination was noted in the vicinity of the fill ends of the diesel tanks. Soil samples were obtained from the excavation and analyzed on site with a portable organic vapor analyzer. The direction and depth of the excavation was based on the indication of contamination obtained from the on-site vapor analyzer. The dimensions of the final excavation are shown on Figure 4. On May 15, 1990, the excavation terminated 15 feet below ground on the south end, 16 feet below ground in the center area, and 10 feet below ground on the north end.

After the completion of the excavation, eight soil samples were collected for laboratory analysis from the floor of the excavation. The soil sampling locations are shown on Figure 4. The soil samples were collected in brass tubes, capped with aluminum foil and plastic caps, labeled, sealed with duct tape, wrapped in two plastic baggies and stored in a cooler, on ice. The soil samples were later delivered to a state-certified analytical laboratory for analysis.

Soil samples #1 and #3 were obtained from the locations shown on Figure 4, between tank #1, the 6,300 gallon diesel tank, and tank #2, the 7,500 gallon gasoline tank. Soil samples #1 and #3 were analyzed for total petroleum hydrocarbons as gasoline (TPH-G), total petroleum hydrocarbons as diesel (TPH-D) and benzene, toluene, ethylbenzene and xylenes (BTEX). Soil sample #2 was obtained from the floor of the excavation on the west side of the previous location of the gasoline tank. Sample #2 was analyzed for TPH-G and BTEX. Soil samples #4, #5, #6, #7, and #8 were obtained from the locations shown on Figure 4, in the proximity of the remaining diesel storage tanks. Soil samples #4, #5, #6, #7, and #8 were analyzed for TPH-D and BTEX.

No gasoline contamination was detected in any of the samples analyzed for TPH-G, i.e., samples #1, #2, or #3. No BTEX was detected in any of the samples obtained from the site. Low levels of diesel contamination were detected in the seven samples obtained from the floor of the excavation that were analyzed for diesel. The concentrations of TPH-D detected by the laboratory are tabulated below. The laboratory reports and chain-of-custody documentation are attached.

Sample	TPH-D (ug/g)
#1	5.0
#3	3.8
#4	4.9
#5	2.8
#6	2.3
#7	5.3
#8	2.0

The excavation was left open on May 15, 1990, temporarily fenced to minimize risks. On May 21, 1990, additional excavation was performed to a maximum depth of 21 feet below ground in the location shown on Figure 4. A soil sample, designated #21, was collected, with the use of a backhoe, from 21 feet below ground. The soil excavated from 16 to 21 feet was backfilled after the soil sample was obtained.

The soil sample was collected in a brass tube, capped with aluminum foil and plastic caps, labeled, sealed with duct tape, wrapped in a plastic baggie and stored in a cooler, on ice. The soil sample was later delivered to a state-certified analytical laboratory, under chain-of-custody documentation, for analysis of TPH-D and BTEX. Diesel was detected at the level of 1.5 ug/g TPH-D in sample #21. No BTEX were detected.

The soil seen in the first 10 to 12 feet of the excavation was imported backfill material (River Run). Below the backfill, the native soil was yellowish brown clay from roughly 11 to 16 feet below ground, grading to clayey silt/silty clay and, then, to very fine sandy/silty clay at a maximum depth of 21 feet below ground. Groundwater was not encountered in the excavation.

Between May 14 and 15, 1990, twelve 20-yard dump-truck loads of excavated soil were stockpiled on site in the location shown on Figure 3. The stockpiled soils were encased in plastic tarp. On May 16, 1990, twelve composited soil samples, designated #9 through #20, were obtained from the stockpiled soil piles for laboratory analysis.

Each composite soil sample was comprised of four grab samples. The grab samples were obtained from discrete locations in each pile, from depths between four and six inches below the surface of the pile. Each composite soil sample was temporarily placed in a clean, one-gallon ziplock baggie. The composited soil samples were thoroughly mixed by shaking the 3/4 full ziplock baggie for one minute. The composited soil samples were then collected into brass tubes from the ziplock baggies. The brass tubes were capped with aluminum foil and plastic caps, labeled, sealed with duct tape, wrapped in a plastic baggie and stored in a cooler, on ice.

The composited soil samples were delivered to the laboratory for analysis. Soil samples #9 and #10, were analyzed for TPH-G, TPH-D, and BTEX. Samples #11 through #20 were analyzed for TPH-D and BTEX. The analysis results of the composited soil samples are tabulated below. The laboratory reports and chain-of-custody documentation are attached.

WINZLER & KELLY
CONSULTING ENGINEERS

Soil Sample	TPH-D (ug/g)	TPH-G (ug/g)	Benzene (ug/g)	Toluene (ug/g)	Ethyl-benzene (ug/g)	Xylenes (ug/g)
# 9	1,600	56	<0.5	<0.5	<0.5	<0.5
#10	240	21	<0.5	<0.5	<0.5	<0.5
#11	1,200		<0.5	<0.5	<0.5	9.8
#12	1,100		<0.5	<0.5	<0.5	1.8
#13	550		<0.5	<0.5	<0.5	6.8
#14	920		<0.5	<0.5	<0.5	<0.5
#15	1,200		<0.5	<0.5	<0.5	2.9
#16	820		<0.5	<0.5	<0.5	<0.5
#17	160		<0.5	<0.5	<0.5	<0.5
#18	720		<0.5	<0.5	<0.5	<0.5
#19	560		<0.5	<0.5	<0.5	<0.5
#20	470		<0.5	<0.5	<0.5	<0.5

The stockpiled soil may either be landfilled or treated on site with the permission of the Regional Water Quality Control Board and the Humboldt County Public Health Department. If the soils are successfully treated to a nondetectable level of contamination, the stockpiled soil may be used or sold as fill material. Mr. Leonard Herr of the North Coast Air Quality Management District was notified of the aeration of excavated soils at the Dutra Trucking site on July 7, 1990.

Winzler & Kelly recommends the following:

- A copy of this report should be sent to the North Coast Regional Water Quality Control Board and to the Humboldt County Department of Public Health, Underground Storage Tank Program.

- A decision should be made between the optional methods of handling the excavated soils.

The North Coast Regional Water Quality Control Board will provide further direction on this case. Please do not hesitate to contact me with any comments or questions that you may have.

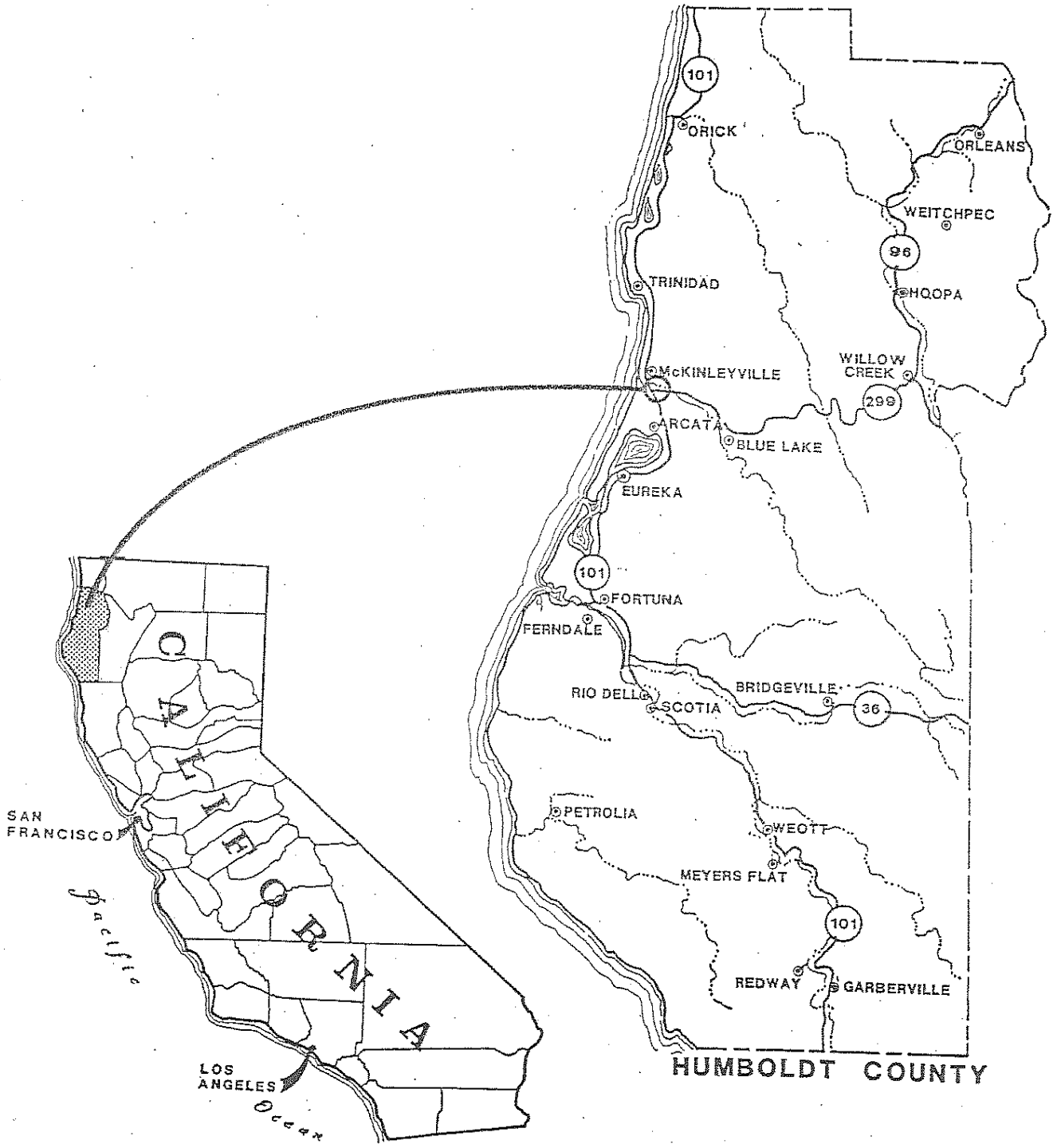
Very truly yours,

WINZLER & KELLY

Dianne Treichler

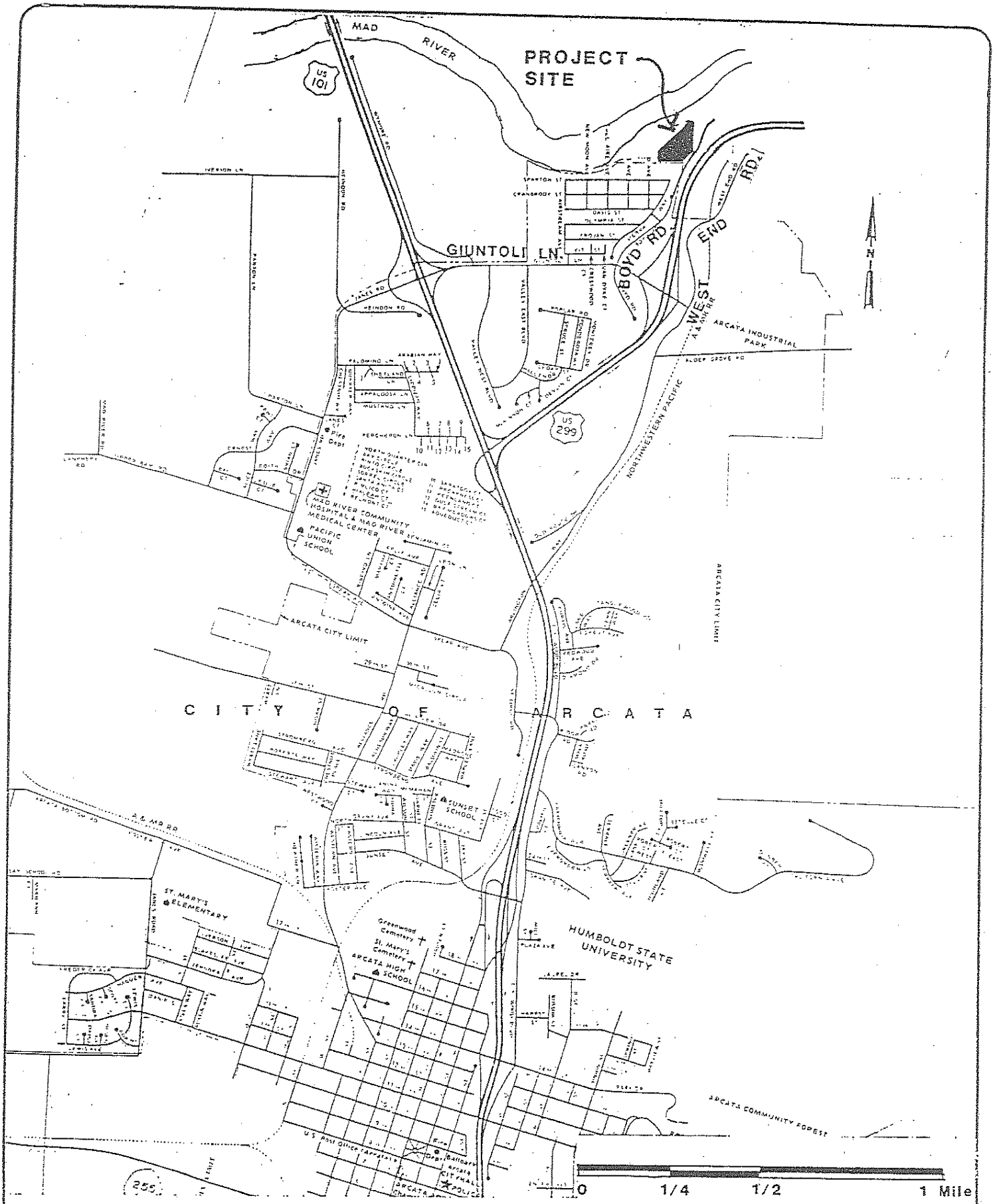
Dianne M. Treichler
Environmental Engineer

cc: Mr. Ron Angell, Attorney at Law
Mr. Jeff Cyphers, Dutra Trucking



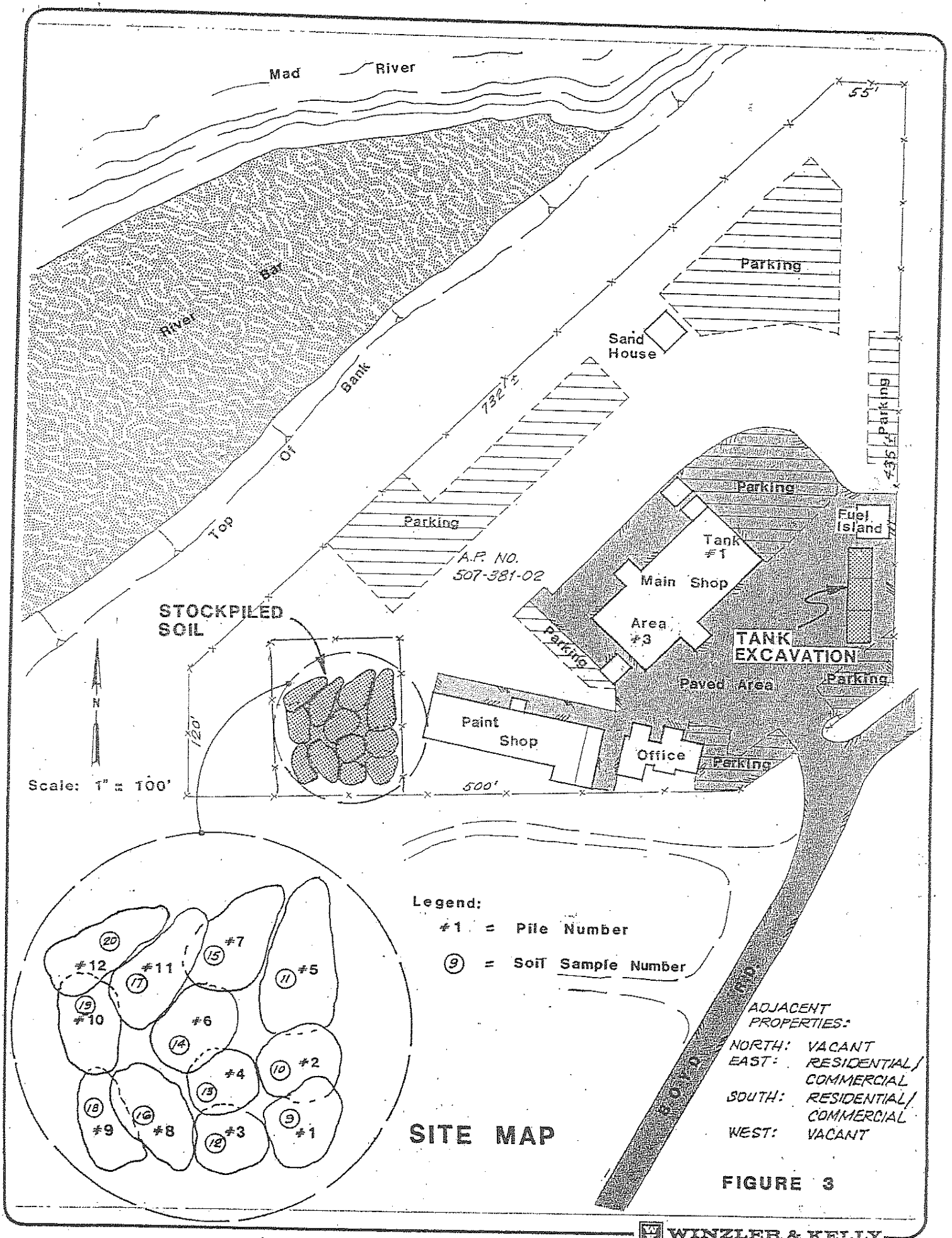
PROJECT AREA LOCATION

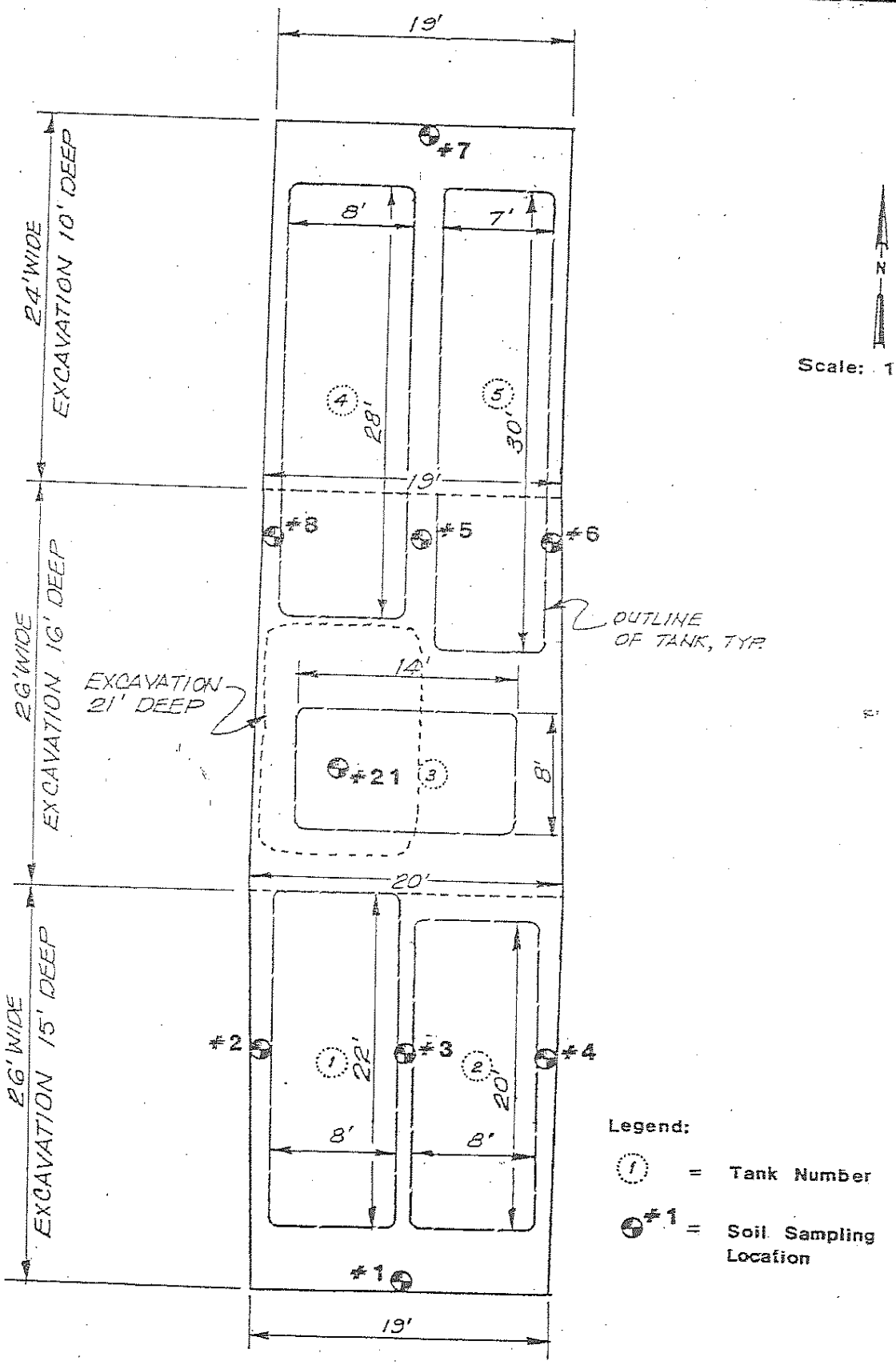
FIGURE 1



VICINITY MAP

FIGURE 2


Mad River
Top of Bank
Bay
River
55'
Parking
Sand House
732'±
Parking
435'±
Parking
Fuel Island
Tank #1
Main Shop
Area #3
TANK EXCAVATION
Paved Area
Parking
Parking
A.P. NO. 507-381-02
STOCKPILED SOIL
N
Scale: 1" = 100'
120'
500'
Paint Shop
Office
Parking
Legend:
#1 = Pile Number
9 = Soil Sample Number
#1
#2
#3
#4
#5
#6
#7
#8
#9
#10
#11
#12
ADJACENT PROPERTIES:
NORTH: VACANT
EAST: RESIDENTIAL/ COMMERCIAL
SOUTH: RESIDENTIAL/ COMMERCIAL
WEST: VACANT
SITE MAP
FIGURE 3
WINZLER & KELLY



TANK EXCAVATION

FIGURE 4

NORTH STATE TANK TESTING, INC.

☐ P.O. BOX 1831 - YUBA CITY, CA 95992 - 916-671-4001
☐ P.O. BOX 101 - ROUND MT., CA 96084

Date 6/14/88

Company Dutra Trucking Address P.O. Box 277

City & County Arcata, Humbolt Grade of Product Diesel

60 Minute Temperature Check

Starting Time for Temperature Check 12:00 Completion Time 1:00

A	B	C	D	E	F
	Temperatures				
	Start of Test	End of Test	Temp. Shift (B from C) + or −	Multiply Column D by E	Add up for Weighted Shift
Top	59.55	59.53	−.02	x .25	= −.005
Middle	61.59	61.56	−.03	x .50	= −.015
Bottom	63.79	69.80	+.01	x .25	= +.0025

Line

1. Add the Three Results in Column F (Weighted Ave. Temp. Shift) ..... = −.0175
2. Tank Dia. & Lgt. ..... Gallon Capacity 3300
3. Exact Water Level in Tank
   Bottom at Start of Test ..... = ... Ø at End Ø

60 Minute Volume Check

Start time ..... Completion Time .....

4. Exact Amount of Liquid Lost & Replaced (−) or Gained & Removed (+) in fill pipe to restore original level ..... = Ø
5. API Gravity of Tested Liquid in Graduate ..... = 32.5
6. Temperature of Tested Liquid in Graduate ..... = 63°
7. Subtract Line 6 from 60°. (result is + or −) ..... *See note
8. Multiply Line 7 x .1. (+ x − = −; + x + = +) ..... = *See note
9. Line 5 + or − Line 8 (API Gravity Adjusted for Temperature) ..... = 32.3
10. With Line 9 enter Table C, Read Coefficient of Expansion ..... = .0004524
11. Multiply Line 10 by Line 2 (Gallons), (Volume Change for Each Degree of Temperature Change) ..... = 1.493
12. Multiply Line 11 by Line 1 (Volume Change Due to Temperature) ..... = −.0261
13. Change sign of Line 12 (see Sec. 9.4.) and add to Line 4 mathematically (Net change in gallons). (+ or −) ..... = +.0261
    (Double check sign: Minus if product lost, Plus if gained)

NOTE: NFPA in Publication No. 329, 4-3.10.1 does not call for a precision test to show a loss of more than .05 gallons (189 ml) per hour.

Therefore, since tested tank had a loss/gain of (line 13) +.02 gallons per hour it DOES/DOES NOT meet the NFPA criterion for tank tightness.

I certify that the test procedure utilized takes into account the following varibles. (1) The presence of vapor pockets; (2) Thermal expansion or contraction of the hazardous substance, which include any density considerations; (3) Temperature stratification in the underground storage tank; (4) Evaporation; (5) Pressure variations in the underground storage tank; (6) Deflection of the underground storage tank ends (7) and is capable of detecting a leak of less than .05 gallons per. hour.

AINLAY TANK 'TEGRITY TESTER REPORT

Tester Ronald D. Lovejoy

Additional Remarks: *USED API Correction Charts.

NORTH STATE TANK TESTING, INC.

☐ P.O. BOX 1831 - YUBA CITY, CA 95992 - 916-671-4001
☐ P.O. BOX 101 - ROUND MT., CA 96084

Date 6/14/88

Company Dutra Trucking Address P.O. Box 277

City & County Arcata, Humboldt Grade of Product Diesel

60 Minute Temperature Check

Starting Time for Temperature Check 1:50 Completion Time 2:50

A	B	C	D	E	F
	Temperatures				
	Start of Test	End of Test	Temp. Shift (B from C) + or −	Multiply Column D by E	Add up for Weighted Shift
Top	60.55	60.53	.02	x .25	= .005
Middle	60.52	60.20	.03	x .50	= .015
Bottom	60.98	60.95	.03	x .25	= .0075

Line

1. Add the Three Results in Column F (Weighted Ave. Temp. Shift) ..... = .0275

2. Tank Dia. & Lgt. ..... Gallon Capacity ..... #3 6,700

3. Exact Water Level in Tank
   Bottom at Start of Test ..... = ... Ø at End Ø

60 Minute Volume Check

Start time ..... Completion Time .....

4. Exact Amount of Liquid Lost & Replaced (−) or Gained & Removed (+) in fill pipe to restore original level ..... = −.046

5. API Gravity of Tested Liquid in Graduate ..... = 33.5

6. Temperature of Tested Liquid in Graduate ..... = 61°

7. Subtract Line 6 from 60°. (result is + or −) ..... *See Note

8. Multiply Line 7 x .1.
   (+ x − = −; + x + = +) ..... = *See Note

9. Line 5 + or − Line 8 (API Gravity Adjusted for Temperature) ..... = 33.4

10. With Line 9 enter Table C, Read Coefficient of Expansion ..... = .00041564

11. Multiply Line 10 by Line 2 (Gallons), (Volume Change for Each Degree of Temperature Change) ..... = 3.058

12. Multiply Line 11 by Line 1 (Volume Change Due to Temperature) ..... = −.0841

13. Change sign of Line 12 (see Sec. 9.4.) and add to Line 4 mathematically (Net change in gallons). (+ or −) ..... = +.0381
    (Double check sign: Minus if product lost, Plus if gained)

NOTE: NFPA in Publication No. 329, 4-3.10.1 does not call for a precision test to show a loss of more than .05 gallons (189 ml) per hour.

Therefore, since tested tank had a loss/(gain) of (line 13) +.03 gallons per hour it (DOES)/DOES NOT meet the NFPA criterion for tank tightness.

I certify that the test procedure utilized takes into account the following varibles. (1) The presence of vapor pockets; (2) Thermal expansion or contraction of the hazardous substance, which include any density considerations; (3) Temperature stratification in the underground storage tank; (4) Evaporation; (5) Pressure variations in the underground storage tank; (6) Deflection of the underground storage tank ends (7) and is capable of detecting a leak of less than .05 gallons per. hour.

AINLAY TANK 'TEGRITY TESTER REPORT

Tester Ronald A Harris

Additional Remarks: *USED API Correction Charts

STATE OF CALIFORNIA

FORM 'B': TANK

WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PROGRAM
TANK PERMIT APPLICATION INFORMATION

COMPLETE A SEPARATE FORM WITH THE FOLLOWING INFORMATION FOR EACH TANK.

MARK ONLY ONE ITEM
- [ ] 1 NEW PERMIT
- [ ] 2 INTERIM PERMIT
- [x] 3 RENEWAL PERMIT
- [ ] 4 AMENDED PERMIT
- [ ] 5 CHANGE OF INFORMATION
- [ ] 6 TEMPORARY TANK CLOSURE
- [ ] 7 PERMANENTLY CLOSED TANK
- [ ] 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: [illegible]

I. TANK DESCRIPTION
COMPLETE ALL ITEMS - IF UNKNOWN — SO SPECIFY

FARM TANK - YES [ ] NO [x]

A. OWNERS TANK ID #

B. MANUFACTURED BY:

C. YEAR INSTALLED

D. TANK CAPACITY IN GALLONS: 1,100

II. TANK CONTENTS
IF (A.1), IS MARKED, COMPLETE ITEM C. IF (A.1), IS NOT MARKED, COMPLETE ITEM D.

A.
- [x] 1 MOTOR VEHICLE FUEL
- [ ] 2 PETROLEUM
- [ ] 3 CHEMICAL PRODUCT
- [ ] 4 OIL
- [ ] 5 HAZARDOUS
- [ ] 80 EMPTY
- [ ] 95 UNKNOWN

B.
- [x] 1 PRODUCT
- [ ] 2 WASTE

C.
- [ ] 1 UNLEADED
- [ ] 2 LEADED
- [x] 3 DIESEL
- [ ] 4 GASAHOL
- [ ] 5 JET FUEL
- [ ] 6 AVIATION GAS
- [ ] 7 METHANOL
- [ ] 99 OTHER (DESCRIBE IN ITEM D, BELOW)

D. IF NOT MOTOR VEHICLE FUEL, ENTER NAME OF HAZARDOUS SUBSTANCE STORED & C.A.S. #

C.A.S. #:

xIII. TANK CONSTRUCTION
MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM
- [ ] 1 DOUBLE WALLED
- [x] 2 SINGLE WALLED
- [ ] 3 SINGLE WALLED WITH EXTERIOR LINER
- [ ] 4 SECONDARY CONTAINMENT
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

B. TANK MATERIAL
- [x] 1 STEEL/IRON
- [ ] 5 CONCRETE
- [ ] 9 BRONZE
- [x] 2 STAINLESS STEEL
- [ ] 6 POLYVINYL CHLORIDE
- [ ] 10 GALVANIZED STEEL
- [ ] 3 FIBERGLASS
- [ ] 7 ALUMINUM
- [ ] 95 UNKNOWN
- [ ] 4 STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC
- [ ] 8 100% METHANOL COMPATIBLE FRP
- [ ] 99 OTHER

C. INTERIOR LINING
- [ ] 1 RUBBER LINED
- [ ] 5 GLASS LINING
- [ ] IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? [ ] YES [ ] NO
- [ ] 2 ALKYD LINING
- [ ] 6 UNLINED
- [ ] 3 EPOXY LINING
- [ ] 4 PHENOLIC LINING
- [x] 95 UNKNOWN
- [ ] 99 OTHER

D. CORROSION PROTECTION
- [ ] 1 POLYETHLENE WRAP
- [ ] 5 CATHODIC PROTECTION
- [x] 2 TAR OR ASPHALT
- [ ] 91 NONE
- [ ] 3 VINYL WRAP
- [ ] 95 UNKNOWN
- [ ] 4 FIBERGLASS REINFORCED PLASTIC
- [ ] 99 OTHER

IV. PIPING INFORMATION
CIRCLE A IF ABOVE GROUND, U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE: A U 1 SUCTION; A U 2 PRESSURE; A U 3 GRAVITY; A U 99 OTHER

B. CONSTRUCTION: A U 1 SINGLE WALLED; A U 2 DOUBLE WALLED; A U 3 LINED TRENCH; A U 95 UNKNOWN; A U 99 OTHER

C. MATERIAL: A U 1 STEEL/IRON; A U 2 STAINLESS STEEL; A U 3 POLYVINYL CHLORIDE (PVC); A U 4 FIBERGLASS PIPE; A U 5 ALUMINUM; A U 6 CONCRETE; A U 7 STEEL CLAD W/FRP; A U 8 100% METHANOL COMPATIBLE FRP; A U 9 GALVANIZED STEEL; A U 95 UNKNOWN; A U 99 OTHER

V. LEAK DETECTION SYSTEM
CIRCLE P FOR PRIMARY, OR S FOR SECONDARY. A PRIMARY LEAK DETECTION SYSTEM MUST BE CIRCLED.

P S 1 VISUAL CHECK; P S 2 INVENTORY RECONCILIATION; P S 3 VADOSE WELLS; P S 4 ELECTRONIC MONITOR; P S 5 GROUND WATER MONITORING WELLS; P S 6 PRECISION TESTING; P S 7 PRESSURE TESTING; P S 91 NONE; P S 95 UNKNOWN; P S 99 OTHER

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR)
2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN GALLONS
3. WAS TANK FILLED WITH INERT MATERIAL? [ ] YES [ ] NO

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE): [illegible]

DATE: [illegible]

LOCAL AGENCY USE ONLY

COUNTY # | JURISDICTION # | AGENCY # | FACILITY ID # | TANK ID #

CURRENT LOCAL AGENCY FACILITY ID #

APPROVED BY NAME

PHONE # WITH AREA CODE

PERMIT NUMBER

PERMIT APPROVAL DATE

PERMIT EXPIRATION DATE

CHECK # | PERMIT AMOUNT | SURCHARGE AMT. | FEE CODE | RECEIPT # | BY:

STATE OF CALIFORNIA

WATER RESOURCES CONTROL BOARD

FORM 'B': TANK

UNDERGROUND STORAGE TANK PROGRAM
TANK PERMIT APPLICATION INFORMATION

COMPLETE A SEPARATE FORM WITH THE FOLLOWING INFORMATION FOR EACH TANK.

MARK ONLY ONE ITEM
- [ ] 1 NEW PERMIT
- [ ] 2 INTERIM PERMIT
- [x] 3 RENEWAL PERMIT
- [ ] 4 AMENDED PERMIT
- [ ] 5 CHANGE OF INFORMATION
- [ ] 6 TEMPORARY TANK CLOSURE
- [ ] 7 PERMANENTLY CLOSED TANK
- [ ] 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: [illegible]

FARM TANK - YES [ ] NO [x]

I. TANK DESCRIPTION

COMPLETE ALL ITEMS - IF UNKNOWN — SO SPECIFY

A. OWNERS TANK ID #	B. MANUFACTURED BY:
C. YEAR INSTALLED	D. TANK CAPACITY IN GALLONS: [illegible]

II. TANK CONTENTS

IF (A.1), IS MARKED, COMPLETE ITEM C. IF (A.1), IS NOT MARKED, COMPLETE ITEM D.

A.
- [x] 1 MOTOR VEHICLE FUEL
- [ ] 2 PETROLEUM
- [ ] 3 CHEMICAL PRODUCT
- [ ] 4 OIL
- [ ] 5 HAZARDOUS
- [ ] 80 EMPTY
- [ ] 95 UNKNOWN

B.
- [x] 1 PRODUCT
- [ ] 2 WASTE

C.
- [ ] 1 UNLEADED
- [ ] 2 LEADED
- [x] 3 DIESEL
- [ ] 4 GASAHOL
- [ ] 5 JET FUEL
- [ ] 6 AVIATION GAS
- [ ] 7 METHANOL
- [ ] 99 OTHER (DESCRIBE IN ITEM D, BELOW)

D. IF NOT MOTOR VEHICLE FUEL, ENTER NAME OF HAZARDOUS SUBSTANCE STORED & C.A.S. #

C.A.S. #:

xIII. TANK CONSTRUCTION

MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM
- [ ] 1 DOUBLE WALLED
- [x] 2 SINGLE WALLED
- [ ] 3 SINGLE WALLED WITH EXTERIOR LINER
- [ ] 4 SECONDARY CONTAINMENT
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

B. TANK MATERIAL
- [x] 1 STEEL/IRON
- [ ] 2 STAINLESS STEEL
- [ ] 3 FIBERGLASS
- [ ] 4 STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC
- [ ] 5 CONCRETE
- [ ] 6 POLYVINYL CHLORIDE
- [ ] 7 ALUMINUM
- [ ] 8 100% METHANOL COMPATIBLE FRP
- [ ] 9 BRONZE
- [ ] 10 GALVANIZED STEEL
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

C. INTERIOR LINING
- [ ] 1 RUBBER LINED
- [ ] 2 ALKYD LINING
- [ ] 3 EPOXY LINING
- [ ] 4 PHENOLIC LINING
- [ ] 5 GLASS LINING
- [ ] 6 UNLINED
- [x] 95 UNKNOWN
- [ ] IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? [ ] YES [ ] NO
- [ ] 99 OTHER

D. CORROSION PROTECTION
- [ ] 1 POLYETHLENE WRAP
- [x] 2 TAR OR ASPHALT
- [ ] 3 VINYL WRAP
- [ ] 4 FIBERGLASS REINFORCED PLASTIC
- [ ] 5 CATHODIC PROTECTION
- [ ] 91 NONE
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

IV. PIPING INFORMATION

CIRCLE A IF ABOVE GROUND, U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY	A U 99 OTHER
B. CONSTRUCTION	A U 1 SINGLE WALLED	A U 2 DOUBLE WALLED	A U 3 LINED TRENCH	A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL	A U 1 STEEL/IRON	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL CLAD W/FRP	A U 8 100% METHANOL COMPATIBLE FRP
	A U 9 GALVANIZED STEEL	A U 95 UNKNOWN	A U 99 OTHER	

V. LEAK DETECTION SYSTEM

CIRCLE P FOR PRIMARY, OR S FOR SECONDARY, A PRIMARY LEAK DETECTION SYSTEM MUST BE CIRCLED.

P S 1 VISUAL CHECK	P S 2 INVENTORY RECONCILIATION	P S 3 VADOSE WELLS	P S 4 ELECTRONIC MONITOR	P S 5 GROUND WATER MONITORING WELLS
P S 6 PRECISION TESTING	P S 7 PRESSURE TESTING	P S 91 NONE	P S 95 UNKNOWN	P S 99 OTHER

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? [ ] YES [ ] NO

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE)	DATE
JEFF CUDNEY [illegible]	7-1-88

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	AGENCY #	FACILITY ID #	TANK ID #

CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME	PHONE # WITH AREA CODE
PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE

CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #	BY:

NORTH STATE TANK TESTING, INC.

☐ P.O. BOX 1831 - YUBA CITY, CA 95992 - 916-671-4001
☐ P.O. BOX 101 - ROUND MT., CA 96084

Company Dutra Trucking Date 6/14/88

City & County Arcata, Humbolt Address P.O. Box 277

Grade of Product Diesel

60 Minute Temperature Check

Starting Time for Temperature Check 2:20 Completion Time 3:20

A	B	C	D	E	F
	Temperatures				
	Start of Test	End of Test	Temp. Shift (B from C) + or −	Multiply Column D by E	Add up for Weighted Shift
Top	59.92	59.93	.01	x .25	= .0025
Middle	60.77	60.77	0	x .50	= 0
Bottom	61.29	61.31	.02	x .25	= .005

1. Add the Three Results in Column F (Weighted Ave. Temp. Shift) ..... = .0075
2. Tank Dia. & Lgt. ..... Gallon Capacity ..... #4 10,000
3. Exact Water Level in Tank
   Bottom at Start of Test ..... = ... Ø at End Ø

60 Minute Volume Check

Start time ..... Completion Time .....

4. Exact Amount of Liquid Lost & Replaced (−) or Gained & Removed (+) in fill pipe to restore original level ..... = ~~[illegible]~~ +.01
5. API Gravity of Tested Liquid in Graduate ..... = 33.5
6. Temperature of Tested Liquid in Graduate ..... = 62°
7. Subtract Line 6 from 60°. (result is + or −) ..... *See Note
8. Multiply Line 7 x .1. (+ x − = −; + x + = +) ..... *See Note
9. Line 5 + or − Line 8 (API Gravity Adjusted for Temperature) ..... = 33.4
10. With Line 9 enter Table C, Read Coefficient of Expansion ..... = .0004564
11. Multiply Line 10 by Line 2 (Gallons), (Volume Change for Each Degree of Temperature Change) ..... = 3.058
12. Multiply Line 11 by Line 1 (Volume Change Due to Temperature) ..... = +.0229
13. Change sign of Line 12 (see Sec. 9.4.) and add to Line 4 mathematically (Net change in gallons) . (+ or −) ..... = −.0129
    (Double check sign: Minus if product lost, Plus if gained)

NOTE: NFPA in Publication No. 329, 4-3.10.1 does not call for a precision test to show a loss of more than .05 gallons (189 ml) per hour.

Therefore, since tested tank had a (loss) gain of (line 13) −.01 gallons per hour it (DOES) DOES NOT meet the NFPA criterion for tank tightness.

I certify that the test procedure utilized takes into account the following varibles. (1) The presence of vapor pockets; (2) Thermal expansion or contraction of the hazardous substance, which include any density considerations; (3) Temperature stratification in the underground storage tank; (4) Evaporation; (5) Pressure variations in the underground storage tank; (6) Deflection of the underground storage tank ends (7) and is capable of detecting a leak of less than .05 gallons per. hour.

AINLAY TANK 'TEGRITY TESTER REPORT

Tester Ronald D. Lowry

Additional Remarks: *USE A API Correction Charts.

NORTH STATE TANK TESTING, INC.

☐ P.O. BOX 1831 - YUBA CITY, CA 95992 - 916-671-4001
☐ P.O. BOX 101 - ROUND MT., CA 96084

Date 6/15/08

Company Dutra Trucking Address P.O. Box 277

City & County Arcata, Humboldt Grade of Product Diesel

60 Minute Temperature Check

Starting Time for Temperature Check 6:35 Completion Time 7:35

A	B	C	D	E	F
	Temperatures				
	Start of Test	End of Test	Temp. Shift (B from C) + or −	Multiply Column D by E	Add up for Weighted Shift
Top	61.39	61.39	0	x .25	= 0
Middle	61.43	61.51	.08	x .50	= .04
Bottom	61.17	61.17	0	x .25	= 0

Line

1. Add the Three Results in Column F (Weighted Ave. Temp. Shift) ..... = .04
2. Tank Dia. & Lgt. ..... Gallon Capacity ..... #1-7500
3. Exact Water Level in Tank
   Bottom at Start of Test ..... = ... Ø at End

60 Minute Volume Check

Start time ..... Completion Time .....

4. Exact Amount of Liquid Lost & Replaced (−) or Gained & Removed (+) in fill pipe to restore original level ..... = +.094
5. API Gravity of Tested Liquid in Graduate ..... = 32.5
6. Temperature of Tested Liquid in Graduate ..... = 61°
7. Subtract Line 6 from 60°. (result is + or −) ..... *See Note
8. Multiply Line 7 x .1. (+ x − = −; + x + = +) ..... = *See Note
9. Line 5 + or − Line 8 (API Gravity Adjusted for Temperature) ..... = 33.4
10. With Line 9 enter Table C, Read Coefficient of Expansion ..... = .00054564
11. Multiply Line 10 by Line 2 (Gallons), (Volume Change for Each Degree of Temperature Change) ..... = 3.058
12. Multiply Line 11 by Line 1 (Volume Change Due to Temperature) ..... = +.1223
13. Change sign of Line 12 (see Sec. 9.4.) and add to Line 4 mathematically (Net change in gallons). (+ or −) ..... = −.0283
    (Double check sign: Minus if product lost, Plus if gained)

NOTE: NFPA in Publication No. 329, 4-3.10.1 does not call for a precision test to show a loss of more than .05 gallons (189 ml) per hour.

Therefore, since tested tank had a loss/gain of (line 13) −.02 gallons per hour it DOES/DOES NOT meet the NFPA criterion for tank tightness.

I certify that the test procedure utilized takes into account the following varibles. (1) The presence of vapor pockets; (2) Thermal expansion or contraction of the hazardous substance, which include any density considerations; (3) Temperature stratification in the underground storage tank; (4) Evaporation; (5) Pressure variations in the underground storage tank; (6 Deflection of the underground storage tank ends (7) and is capable of detecting a leak of less than .05 gallons per. hour.

AINLAY TANK TEGRITY TESTER REPORT

Tester Lowell D. Lovejoy

Additional Remarks: *USED API Correction Charts.

STATE OF CALIFORNIA

FORM 'B':
TANK

WATER RESOURCES CONTROL BOARD

UNDERGROUND STORAGE TANK PROGRAM
TANK PERMIT APPLICATION INFORMATION

COMPLETE A SEPARATE FORM WITH THE FOLLOWING INFORMATION FOR EACH TANK.

MARK ONLY ONE ITEM
- [ ] 1 NEW PERMIT
- [ ] 2 INTERIM PERMIT
- [x] 3 RENEWAL PERMIT
- [ ] 4 AMENDED PERMIT
- [ ] 5 CHANGE OF INFORMATION
- [ ] 6 TEMPORARY TANK CLOSURE
- [ ] 7 PERMANENTLY CLOSED TANK
- [ ] 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: Quinta Trucking

I. TANK DESCRIPTION
COMPLETE ALL ITEMS - IF UNKNOWN — SO SPECIFY

FARM TANK - YES [ ] NO [x]

A. OWNERS TANK ID #

B. MANUFACTURED BY:

C. YEAR INSTALLED

D. TANK CAPACITY IN GALLONS: 1000

II. TANK CONTENTS
IF (A.1), IS MARKED, COMPLETE ITEM C. IF (A.1), IS NOT MARKED, COMPLETE ITEM D.

A.
- [x] 1 MOTOR VEHICLE FUEL
- [ ] 2 PETROLEUM
- [ ] 3 CHEMICAL PRODUCT
- [ ] 4 OIL
- [ ] 5 HAZARDOUS
- [ ] 80 EMPTY
- [ ] 95 UNKNOWN

B.
- [ ] 1 PRODUCT
- [ ] 2 WASTE

C.
- [ ] 1 UNLEADED
- [ ] 2 LEADED
- [x] 3 DIESEL
- [ ] 4 GASAHOL
- [ ] 5 JET FUEL
- [ ] 6 AVIATION GAS
- [ ] 7 METHANOL
- [ ] 99 OTHER (DESCRIBE IN ITEM D. BELOW)

D. IF NOT MOTOR VEHICLE FUEL, ENTER NAME OF HAZARDOUS SUBSTANCE STORED & C.A.S. #

C.A.S. #:

III. TANK CONSTRUCTION
MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM
- [ ] 1 DOUBLE WALLED
- [x] 2 SINGLE WALLED
- [ ] 3 SINGLE WALLED WITH EXTERIOR LINER
- [ ] 4 SECONDARY CONTAINMENT
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

B. TANK MATERIAL
- [x] 1 STEEL/IRON
- [ ] 2 STAINLESS STEEL
- [ ] 3 FIBERGLASS
- [ ] 4 STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC
- [ ] 5 CONCRETE
- [ ] 6 POLYVINYL CHLORIDE
- [ ] 7 ALUMINUM
- [ ] 8 100% METHANOL COMPATIBLE FRP
- [ ] 9 BRONZE
- [ ] 10 GALVANIZED STEEL
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

C. INTERIOR LINING
- [ ] 1 RUBBER LINED
- [ ] 2 ALKYD LINING
- [ ] 3 EPOXY LINING
- [ ] 4 PHENOLIC LINING
- [ ] 5 GLASS LINING
- [ ] 6 UNLINED
- [x] 95 UNKNOWN
- [ ] 99 OTHER

IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? [ ] YES [ ] NO

D. CORROSION PROTECTION
- [ ] 1 POLYETHLENE WRAP
- [x] 2 TAR OR ASPHALT
- [ ] 3 VINYL WRAP
- [ ] 4 FIBERGLASS REINFORCED PLASTIC
- [ ] 5 CATHODIC PROTECTION
- [ ] 91 NONE
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

IV. PIPING INFORMATION
CIRCLE A IF ABOVE GROUND, U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE: A U 1 SUCTION; A U 2 PRESSURE; A U 3 GRAVITY; A U 99 OTHER

B. CONSTRUCTION: A U 1 SINGLE WALLED; A U 2 DOUBLE WALLED; A U 3 LINED TRENCH; A U 95 UNKNOWN; A U 99 OTHER

C. MATERIAL: A U 1 STEEL/IRON; A U 2 STAINLESS STEEL; A U 3 POLYVINYL CHLORIDE (PVC); A U 4 FIBERGLASS PIPE; A U 5 ALUMINUM; A U 6 CONCRETE; A U 7 STEEL CLAD W/FRP; A U 8 100% METHANOL COMPATIBLE FRP; A U 9 GALVANIZED STEEL; A U 95 UNKNOWN; A U 99 OTHER

V. LEAK DETECTION SYSTEM
CIRCLE P FOR PRIMARY, OR S FOR SECONDARY. A PRIMARY LEAK DETECTION SYSTEM MUST BE CIRCLED.

P S 1 VISUAL CHECK; P S 2 INVENTORY RECONCILIATION; P S 3 VADOSE WELLS; P S 4 ELECTRONIC MONITOR; P S 5 GROUND WATER MONITORING WELLS; P S 6 PRECISION TESTING; P S 7 PRESSURE TESTING; P S 91 NONE; P S 95 UNKNOWN; P S 99 OTHER

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR)
2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN GALLONS
3. WAS TANK FILLED WITH INERT MATERIAL? [ ] YES [ ] NO

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE): JEFF Cuchara

DATE: 1/2/97

LOCAL AGENCY USE ONLY

COUNTY # | JURISDICTION # | AGENCY # | FACILITY ID # | TANK ID #

CURRENT LOCAL AGENCY FACILITY ID #

APPROVED BY NAME

PHONE # WITH AREA CODE

PERMIT NUMBER

PERMIT APPROVAL DATE

PERMIT EXPIRATION DATE

CHECK # | PERMIT AMOUNT | SURCHARGE AMT. | FEE CODE | RECEIPT # | BY:

FORM B (3-7-86) THIS FORM MUST BE ACCOMPANIED BY A FACILITY/SITE APPLICATION. FORM 'A' UNLESS A CURRENT FORM 'A' HAS BEEN

12271

STATE OF CALIFORNIA

WATER RESOURCES CONTROL BOARD

FORM 'B':

TANK

UNDERGROUND STORAGE TANK PROGRAM
TANK PERMIT APPLICATION INFORMATION

COMPLETE A SEPARATE FORM WITH THE FOLLOWING INFORMATION FOR EACH TANK.

MARK ONLY ONE ITEM: [ ] 1 NEW PERMIT [ ] 2 INTERIM PERMIT [x] 3 RENEWAL PERMIT [ ] 4 AMENDED PERMIT [ ] 5 CHANGE OF INFORMATION [ ] 6 TEMPORARY TANK CLOSURE [ ] 7 PERMANENTLY CLOSED TANK [ ] 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: [illegible] FARM TANK - YES [ ] NO [x]

I. TANK DESCRIPTION

COMPLETE ALL ITEMS - IF UNKNOWN — SO SPECIFY

A. OWNERS TANK ID #

B. MANUFACTURED BY:

C. YEAR INSTALLED

D. TANK CAPACITY IN GALLONS: [illegible]

II. TANK CONTENTS

IF (A.1), IS MARKED, COMPLETE ITEM C. IF (A.1), IS NOT MARKED, COMPLETE ITEM D.

A. [x] 1 MOTOR VEHICLE FUEL [ ] 2 PETROLEUM [ ] 3 CHEMICAL PRODUCT [ ] 4 OIL [ ] 5 HAZARDOUS [ ] 80 EMPTY [ ] 95 UNKNOWN

B. [ ] 1 PRODUCT [ ] 2 WASTE

C. [ ] 1 UNLEADED [ ] 2 LEADED [x] 3 DIESEL [ ] 4 GASAHOL [ ] 5 JET FUEL [ ] 6 AVIATION GAS [ ] 7 METHANOL [ ] 99 OTHER (DESCRIBE IN ITEM D, BELOW)

D. IF NOT MOTOR VEHICLE FUEL, ENTER NAME OF HAZARDOUS SUBSTANCE STORED & C.A.S. #

C.A.S. #:

xIII. TANK CONSTRUCTION

MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM: [ ] 1 DOUBLE WALLED [x] 2 SINGLE WALLED [ ] 3 SINGLE WALLED WITH EXTERIOR LINER [ ] 4 SECONDARY CONTAINMENT [ ] 95 UNKNOWN [ ] 99 OTHER

B. TANK MATERIAL: [ ] 1 STEEL/IRON [ ] 2 STAINLESS STEEL [ ] 3 FIBERGLASS [ ] 4 STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC [ ] 5 CONCRETE [ ] 6 POLYVINYL CHLORIDE [ ] 7 ALUMINUM [ ] 8 100% METHANOL COMPATIBLE FRP [ ] 9 BRONZE [ ] 10 GALVANIZED STEEL [ ] 95 UNKNOWN [ ] 99 OTHER

C. INTERIOR LINING: [ ] 1 RUBBER LINED [ ] 2 ALKYD LINING [ ] 3 EPOXY LINING [ ] 4 PHENOLIC LINING [ ] 5 GLASS LINING [ ] 6 UNLINED [x] 95 UNKNOWN [ ] IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? [ ] YES [ ] NO [ ] 99 OTHER

D. CORROSION PROTECTION: [ ] 1 POLYETHLENE WRAP [x] 2 TAR OR ASPHALT [ ] 3 VINYL WRAP [ ] 4 FIBERGLASS REINFORCED PLASTIC [ ] 5 CATHODIC PROTECTION [ ] 91 NONE [ ] 95 UNKNOWN [ ] 99 OTHER

IV. PIPING INFORMATION

CIRCLE A IF ABOVE GROUND, U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE: A U 1 SUCTION A U 2 PRESSURE A U 3 GRAVITY A U 99 OTHER

B. CONSTRUCTION: A U 1 SINGLE WALLED A U 2 DOUBLE WALLED A U 3 LINED TRENCH A U 95 UNKNOWN A U 99 OTHER

C. MATERIAL: A U 1 STEEL/IRON A U 2 STAINLESS STEEL A U 3 POLYVINYL CHLORIDE (PVC) A U 4 FIBERGLASS PIPE A U 5 ALUMINUM A U 6 CONCRETE A U 7 STEEL CLAD W/FRP A U 8 100% METHANOL COMPATIBLE FRP A U 9 GALVANIZED STEEL A U 95 UNKNOWN A U 99 OTHER

V. LEAK DETECTION SYSTEM

CIRCLE P FOR PRIMARY, OR S FOR SECONDARY. A PRIMARY LEAK DETECTION SYSTEM MUST BE CIRCLED.

P S 1 VISUAL CHECK P S 2 INVENTORY RECONCILIATION P S 3 VADOSE WELLS P S 4 ELECTRONIC MONITOR P S 5 GROUND WATER MONITORING WELLS P S 6 PRECISION TESTING P S 7 PRESSURE TESTING P S 91 NONE P S 95 UNKNOWN P S 99 OTHER

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR)

2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN GALLONS

3. WAS TANK FILLED WITH INERT MATERIAL? [ ] YES [ ] NO

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE): [illegible] DATE: 7/6/88

LOCAL AGENCY USE ONLY

COUNTY # | JURISDICTION # | AGENCY # | FACILITY ID # | TANK ID #

CURRENT LOCAL AGENCY FACILITY ID #

APPROVED BY NAME

PHONE # WITH AREA CODE

PERMIT NUMBER

PERMIT APPROVAL DATE

PERMIT EXPIRATION DATE

CHECK # | PERMIT AMOUNT | SURCHARGE AMT. | FEE CODE | RECEIPT # | BY:

NORTH STATE TANK TESTING, INC.

☐ P.O. BOX 1831 - YUBA CITY, CA 95992 - 916-671-4001
☐ P.O. BOX 101 - ROUND MT., CA 96084

Date 6/15/88

Company Dutra Trucking Address P.O. Box 277

City & County Arcata, Humbolt Grade of Product Diesel

60 Minute Temperature Check

Starting Time for Temperature Check 6:40 Completion Time 7:40

A	B	C	D	E	F
	Temperatures				
	Start of Test	End of Test	Temp. Shift (B from C) + or −	Multiply Column D by E	Add up for Weighted Shift
Top	60.97	60.96	.01	x .25	= .0025
Middle	60.51	60.51	0	x .50	= 0
Bottom	60.96	60.95	.01	x .25	= .0025

Line

1. Add the Three Results in Column F (Weighted Ave. Temp. Shift) ..... = .005
2. Tank Dia. & Lgt. ..... Gallon Capacity ..... #2-6,000
3. Exact Water Level in Tank
   Bottom at Start of Test ..... = ... Ø at End Ø

60 Minute Volume Check

Start time ..... Completion Time .....

4. Exact Amount of Liquid Lost & Replaced (−) or Gained & Removed (+) in fill pipe to restore original level ..... = -.024
5. API Gravity of Tested Liquid in Graduate ..... = 32.5
6. Temperature of Tested Liquid in Graduate ..... = 61°
7. Subtract Line 6 from 60°. (result is + or −) ..... *See Note
8. Multiply Line 7 x .1. (+ x − = −; + x + = +) ..... = *See Note
9. Line 5 + or − Line 8 (API Gravity Adjusted for Temperature) ..... = 33.4
10. With Line 9 enter Table C, Read Coefficient of Expansion ..... = .0004564
11. Multiply Line 10 by Line 2 (Gallons), (Volume Change for Each Degree of Temperature Change) ..... = 3.058
12. Multiply Line 11 by Line 1 (Volume Change Due to Temperature) ..... = -.0153
13. Change sign of Line 12 (see Sec. 9.4.) and add to Line 4 mathematically (Net change in gallons). (+ or −) ..... = .0087
    (Double check sign: Minus if product lost, Plus if gained)

NOTE: NFPA in Publication No. 329, 4-3.10.1 does not call for a precision test to show a loss of more than .05 gallons (189 ml) per hour.

Therefore, since tested tank had a loss/gain of (line 13) -10 gallons per hour it DOES/DOES NOT meet the NFPA criterion for tank tightness.

I certify that the test procedure utilized takes into account the following varibles. (1) The presence of vapor pockets; (2) Thermal expansion or contraction of the hazardous substance, which include any density considerations; (3) Temperature stratification in the underground storage tank; (4) Evaporation; (5) Pressure variations in the underground storage tank; (6) Deflection of the underground storage tank ends (7) and is capable of detecting a leak of less than .05 gallons per. hour.

AINLAY TANK 'TEGRITY TESTER REPORT

Tester Ronald D. [illegible]

Additional Remarks: *USED API Cosectional Charts.

STATE OF CALIFORNIA

WATER RESOURCES CONTROL BOARD

FORM 'B':
TANK

UNDERGROUND STORAGE TANK PROGRAM
TANK PERMIT APPLICATION INFORMATION

COMPLETE A SEPARATE FORM WITH THE FOLLOWING INFORMATION FOR EACH TANK.

MARK ONLY ONE ITEM
- [ ] 1 NEW PERMIT
- [ ] 2 INTERIM PERMIT
- [x] 3 RENEWAL PERMIT
- [ ] 4 AMENDED PERMIT
- [ ] 5 CHANGE OF INFORMATION
- [ ] 6 TEMPORARY TANK CLOSURE
- [ ] 7 PERMANENTLY CLOSED TANK
- [ ] 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: [illegible]

FARM TANK - YES [ ] NO [x]

I. TANK DESCRIPTION

COMPLETE ALL ITEMS - IF UNKNOWN — SO SPECIFY

A. OWNERS TANK ID #	B. MANUFACTURED BY:
C. YEAR INSTALLED	D. TANK CAPACITY IN GALLONS: [illegible]

II. TANK CONTENTS

IF (A.1), IS MARKED, COMPLETE ITEM C. IF (A.1), IS NOT MARKED, COMPLETE ITEM D.

A.
- [x] 1 MOTOR VEHICLE FUEL
- [ ] 2 PETROLEUM
- [ ] 3 CHEMICAL PRODUCT
- [ ] 4 OIL
- [ ] 5 HAZARDOUS
- [ ] 60 EMPTY
- [ ] 95 UNKNOWN

B.
- [x] 1 PRODUCT
- [ ] 2 WASTE

C.
- [x] 1 UNLEADED
- [ ] 2 LEADED
- [ ] 3 DIESEL
- [ ] 4 GASAHOL
- [ ] 5 JET FUEL
- [ ] 6 AVIATION GAS
- [ ] 7 METHANOL
- [ ] 99 OTHER (DESCRIBE IN ITEM D, BELOW)

D. IF NOT MOTOR VEHICLE FUEL, ENTER NAME OF HAZARDOUS SUBSTANCE STORED & C.A.S. #

C.A.S. #:

III. TANK CONSTRUCTION

MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM
- [ ] 1 DOUBLE WALLED
- [x] 2 SINGLE WALLED
- [ ] 3 SINGLE WALLED WITH EXTERIOR LINER
- [ ] 4 SECONDARY CONTAINMENT
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

B. TANK MATERIAL
- [x] 1 STEEL/IRON
- [ ] 2 STAINLESS STEEL
- [ ] 3 FIBERGLASS
- [ ] 4 STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC
- [ ] 5 CONCRETE
- [ ] 6 POLYVINYL CHLORIDE
- [ ] 7 ALUMINUM
- [ ] 8 100% METHANOL COMPATIBLE FRP
- [ ] 9 BRONZE
- [ ] 10 GALVANIZED STEEL
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

C. INTERIOR LINING
- [ ] 1 RUBBER LINED
- [ ] 2 ALKYD LINING
- [ ] 3 EPOXY LINING
- [ ] 4 PHENOLIC LINING
- [ ] 5 GLASS LINING
- [ ] 6 UNLINED
- [x] 95 UNKNOWN
- [ ] IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? [ ] YES [ ] NO
- [ ] 99 OTHER

D. CORROSION PROTECTION
- [ ] 1 POLYETHLENE WRAP
- [x] 2 TAR OR ASPHALT
- [ ] 3 VINYL WRAP
- [ ] 4 FIBERGLASS REINFORCED PLASTIC
- [ ] 5 CATHODIC PROTECTION
- [ ] 91 NONE
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

IV. PIPING INFORMATION

CIRCLE A IF ABOVE GROUND, U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY	A U 99 OTHER
B. CONSTRUCTION	A U 1 SINGLE WALLED	A U 2 DOUBLE WALLED	A U 3 LINED TRENCH	A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL	A U 1 STEEL/IRON A U 5 ALUMINUM A U 9 GALVANIZED STEEL	A U 2 STAINLESS STEEL A U 6 CONCRETE A U 95 UNKNOWN	A U 3 POLYVINYL CHLORIDE (PVC) A U 7 STEEL CLAD W/FRP A U 99 OTHER	A U 4 FIBERGLASS PIPE A U 8 100% METHANOL COMPATIBLE FRP

V. LEAK DETECTION SYSTEM

CIRCLE P FOR PRIMARY, OR S FOR SECONDARY. A PRIMARY LEAK DETECTION SYSTEM MUST BE CIRCLED.

P S 1 VISUAL CHECK	P S 2 INVENTORY RECONCILIATION	P S 3 VADOSE WELLS	P S 4 ELECTRONIC MONITOR	P S 5 GROUND WATER MONITORING WELLS
P S 6 PRECISION TESTING	P S 7 PRESSURE TESTING	P S 91 NONE	P S 95 UNKNOWN	P S 99 OTHER

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? [ ] YES [ ] NO

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE)	DATE
[illegible]	[illegible]

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	AGENCY #	FACILITY ID #	TANK ID #

CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME	PHONE # WITH AREA CODE
PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE

CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #	BY:

NORTH STATE TANK TESTING, INC.

☐ P.O. BOX 1831 - YUBA CITY, CA 95992 - 916-671-4001
☐ P.O. BOX 101 - ROUND MT., CA 96084

Company Dutra Trucking Date 6/14/88

City & County Arcata, Humbolt Address P.O. BOX 277

Grade of Product Unlead

60 Minute Temperature Check

Starting Time for Temperature Check 12:30 Completion Time 1:30

A	B	C	D	E	F
	Temperatures				
	Start of Test	End of Test	Temp. Shift (B from C) + or −	Multiply Column D by E	Add up for Weighted Shift
Top	60.69	60.67	−.02	x .25	= −.005
Middle	61.51	61.52	+.01	x .50	= +.005
Bottom	62.44	62.48	+.04	x .25	= +.01
Line					= +.01

1. Add the Three Results in Column F (Weighted Ave. Temp. Shift) .....
2. Tank Dia. & Lgt. ..... Gallon Capacity 8,000
3. Exact Water Level in Tank
   Bottom at Start of Test ..... = ... Ø at End Ø

60 Minute Volume Check

Start time ..... Completion Time .....

4. Exact Amount of Liquid Lost & Replaced (−) or Gained & Removed (+) in fill pipe to restore original level ..... = +.07
5. API Gravity of Tested Liquid in Graduate ..... = 55.5
6. Temperature of Tested Liquid in Graduate ..... = 63°
7. Subtract Line 6 from 60°. (result is + or −) ..... *See Note
8. Multiply Line 7 x .1. (+ x − = −; + x + = +) ..... = *See Note
9. Line 5 + or − Line 8 (API Gravity Adjusted for Temperature) ..... = 55.1
10. With Line 9 enter Table C, Read Coefficient of Expansion ..... = .0006571
11. Multiply Line 10 by Line 2 (Gallons), (Volume Change for Each Degree of Temperature Change) ..... = 5.257
12. Multiply Line 11 by Line 1 (Volume Change Due to Temperature) ..... = +.0526
13. Change sign of Line 12 (see Sec. 9.4.) and add to Line 4 mathematically (Net change in gallons). (+ or −) (Double check sign: Minus if product lost, Plus if gained) ..... = +.0124

NOTE: NFPA in Publication No. 329, 4-3.10.1 does not call for a precision test to show a loss of more than .05 gallons (189 ml) per hour.

Therefore, since tested tank had a loss/gain of (line 13) +.01 gallons per hour it DOES/DOES NOT meet the NFPA criterion for tank tightness.

I certify that the test procedure utilized takes into account the following varibles. (1) The presence of vapor pockets; (2) Thermal expansion or contraction of the hazardous substance, which include any density considerations; (3) Temperature stratification in the underground storage tank; (4) Evaporation; (5) Pressure variations in the underground storage tank; (6) Deflection of the underground storage tank ends (7) and is capable of detecting a leak of less than .05 gallons per. hour.

AINLAY TANK 'TEGRITY TESTER REPORT

Tester Ronald D. Lorenzo

Additional Remarks: *USED API Correction Charts.

RECEIVED
JUN 4 1990
WK - EUREKA

Alpha
Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482
(707) 468-0401

CHEMICAL EXAMINATION REPORT

Alpha Construction
3530 Broadway
Eureka, CA 95501

Date Sampled: 05/15/90
Time Sampled: 16:35
Sampled By: Treichler
Date Received: 05/16/90 10:30
Sample Type: Soil

Batch 90-0516-003 consisted of 8 Samples and 42 Tests

Sample 1 Dutra Trucking - Arcata JOB # 600021
Sample # 1

	Method	Results	Units	MDL
TPH - Gasoline	LUFT	ND	ug/g	1
Benzene	EPA 8020	ND	ug/g	.0[illegible]
Toluene	EPA 8020	ND	ug/g	.0[illegible]
Ethylbenzene	EPA 8020	ND	ug/g	.05
Xylenes	EPA 8020	ND	ug/g	.0[illegible]
TPH - Diesel	LUFT	5	ug/g	1

MDL - Minimum Detection Limit ND - None Detected

NOTES:

Bruce L. Gove
Laboratory Director

Bruce Gove

Date Printed: 05/21/90

Alpha
Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482
(707) 468-0401

CHEMICAL EXAMINATION REPORT

Alpha Construction
3530 Broadway
Eureka, CA 95501

Date Sampled: 05/15/90
Time Sampled: 16:40
Sampled By: Treichler
Date Received: 05/16/90 10:30
Sample Type: Soil

tch 90-0516-003 consisted of 8 Samples and 42 Tests

Sample 2 Dutra Trucking - Arcata JOB # 600021
Sample # 2

	Method	Results	Units	MDL
TPH - Gasoline	LUFT	ND	ug/g	1
Benzene	EPA 8020	ND	ug/g	.05
Toluene	EPA 8020	ND	ug/g	.05
Ethylbenzene	EPA 8020	ND	ug/g	.05
Xylenes	EPA 8020	ND	ug/g	.05

DL - Minimum Detection Limit ND - None Detected

TES:

Bruce L. Gove
Laboratory Director

Date Printed: 05/21/90

Alpha
Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482
(707) 468-0401

CHEMICAL EXAMINATION REPORT

Alpha Construction
3530 Broadway
Eureka, CA 95501

Date Sampled: 05/15/90
Time Sampled: 16:45
Sampled By: Treichler
Date Received: 05/16/90 10:30
Sample Type: Soil

Batch 90-0516-003 consisted of 8 Samples and 42 Tests

Sample 3 Dutra Trucking - Arcata JOB # 600021
Sample #-3

	Method	Results	Units	MDL
TPH - Gasoline	LUFT	ND	ug/g	1
Benzene	EPA 8020	ND	ug/g	.0
Toluene	EPA 8020	ND	ug/g	.05
Ethylbenzene	EPA 8020	ND	ug/g	.05
Xylenes	EPA 8020	ND	ug/g	.05
TPH - Diesel	LUFT	3.8	ug/g	1

MDL - Minimum Detection Limit ND - None Detected

NOTES:

Bruce L. Gove
Laboratory Director

Bruce Gove
Date Printed: 05/21/90
(S.F.)

Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482
(707) 468-0401

CHEMICAL EXAMINATION REPORT

Alpha Construction
3530 Broadway
Eureka, CA 95501

Date Sampled: 05/15/90
Time Sampled: 16:50
Sampled By: Treichler
Date Received: 05/16/90 10:30
Sample Type: Soil

tch 90-0516-003 consisted of 8 Samples and 42 Tests

Sample 4 Dutra Trucking - Arcata JOB # 600021
Sample # 4

	Method	Results	Units	MDL
TPH - Diesel	LUFT	4.9	ug/g	1
Benzene	EPA 8020	ND	ug/g	.05
Toluene	EPA 8020	ND	ug/g	.05
Ethylbenzene	EPA 8020	ND	ug/g	.05
Xylenes	EPA 8020	ND	ug/g	.05

. - Minimum Detection Limit ND - None Detected

ES:

Bruce L. Gove
Laboratory Director

Bruce Gove

Date Printed: 05/21/90

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CHEMICAL EXAMINATION REPORT

Alpha Construction
3530 Broadway
Eureka, CA 95501

Date Sampled: 05/15/90
Time Sampled: 17:15
Sampled By: Treichler
Date Received: 05/16/90 10:30
Sample Type: Soil

Batch 90-0516-003 consisted of 8 Samples and 42 Tests

Sample 5 Dutra Trucking - Arcata JOB # 600021
Sample # 5

	Method	Results	Units	MDL
TPH - Diesel	LUFT	2.8	ug/g	1
Benzene	EPA 8020	ND	ug/g	.05
Toluene	EPA 8020	ND	ug/g	.05
Ethylbenzene	EPA 8020	ND	ug/g	.05
Xylenes	EPA 8020	ND	ug/g	.05

MDL - Minimum Detection Limit ND - None Detected

NOTES:

Bruce L. Gove
Laboratory Director

Bruce Gove

Date Printed: 05/21/90

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CHEMICAL EXAMINATION REPORT

Alpha Construction
3530 Broadway
Eureka, CA 95501

Date Sampled: 05/15/90
Time Sampled: 17:20
Sampled By: Treichler
Date Received: 05/16/90 10:30
Sample Type: Soil

atch 90-0516-003 consisted of 8 Samples and 42 Tests

Sample 6 Dutra Trucking - Arcata JOB # 600021
Sample # 6

	Method	Results	Units	MDL
TPH - Diesel	LUFT	2.3	ug/g	1
Benzene	EPA 8020	ND	ug/g	.05
Toluene	EPA 8020	ND	ug/g	.05
Ethylbenzene	EPA 8020	ND	ug/g	.05
Xylenes	EPA 8020	ND	ug/g	.05

MDL - Minimum Detection Limit ND - None Detected

OTES:

Bruce L. Gove
Laboratory Director

Bruce Gove

Date Printed: 05/21/90

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(707) 468-0401

CHEMICAL EXAMINATION REPORT

Alpha Construction
3530 Broadway
Eureka, CA 95501

Date Sampled: 05/15/90
Time Sampled: 17:25
Sampled By: Treichler
Date Received: 05/16/90 10:30
Sample Type: Soil

Batch 90-0516-003 consisted of 8 Samples and 42 Tests

Sample 7 Dutra Trucking - Arcata JOB # 600021
Sample # 7

	Method	Results	Units	MDL
TPH - Diesel	LUFT	5.3	ug/g	1
Benzene	EPA 8020	ND	ug/g	.01
Toluene	EPA 8020	ND	ug/g	.05
Ethylbenzene	EPA 8020	ND	ug/g	.05
Xylenes	EPA 8020	ND	ug/g	.0

MDL - Minimum Detection Limit ND - None Detected

NOTES:

Bruce L. Gove
Laboratory Director

Bruce Gove

Date Printed: 05/21/90
(BF)

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CHEMICAL EXAMINATION REPORT

Alpha Construction
3530 Broadway
Eureka, CA 95501

Date Sampled: 05/15/90
Time Sampled: 17:40
Sampled By: Treichler
Date Received: 05/16/90 10:30
Sample Type: Soil

atch 90-0516-003 consisted of 8 Samples and 42 Tests

Sample 8 Dutra Trucking - Arcata JOB # 600021
Sample # 8

	Method	Results	Units	MDL
TPH - Diesel	LUFT	2	ug/g	1
Benzene	EPA 8020	ND	ug/g	.05
Toluene	EPA 8020	ND	ug/g	.05
Ethylbenzene	EPA 8020	ND	ug/g	.05
Xylenes	EPA 8020	ND	ug/g	.05

MDL - Minimum Detection Limit ND - None Detected

OTES:

Bruce L. Gove
Laboratory Director

Bruce L. Gove
Date Printed: 05/21/90

5-18 pm.

Chain of Custody

Client: Alpha-NCI Inc
3530 Broadway
Eureka CA, 95501

phone 445-8456

Signature of person authorizing work:

Project ID: Dutra Trucking, Arcata
Job # 600021

Sampled by: Dianne Treichler Winzler & Kelly

Date	Time	Sample type Grab	Comp	No of containers	Analysis TPH-G	BTEX	TPH-D	Comments:
5/15/90	4:35	X		1	X	X	X	90-0516-3-1
	4:40	X		1	X	X		90-0516-3-2
	4:45	X		2	X	X	X	90-0516-3-3
	4:50	X		1		X	X	90-0516-3-4
	5:15	X		1		X	X	90-0516-3-5
	5:20	X		1		X	X	90-0516-3-6
	5:25	X		1		X	X	90-0516-3-7
	5:40	X		1		X	X	90-0516-3-8

Relinquished by: Dianne Treichler 5/15/90, 6:30 pm

Received by: [signature] 5/15/90, 6:30 pm

Relinquished by: [signature] 5/16/90 10:30

Received by: [signature] 5/16/90 10:30

Alpha
Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482
(707) 468-0401

CHEMICAL EXAMINATION REPORT

Winzler & Kelly
Consulting Engineers
P O Box 1345
Eureka, CA 95501

Date Sampled: 05/16/90
Time Sampled: 09:15
Sampled By: Treichler
Date Received: 05/17/90 10:00
Sample Type: Soil

Batch 90-0517-004 consisted of 12 Samples and 62 Tests

Sample 1 Dutra Trucking Dutra # 9

	Method	Results	Units	MDL
TPH - Gasoline	LUFT	56	ug/g	1
Benzene	EPA 8020	ND	ug/g	.5
Toluene	EPA 8020	ND	ug/g	.5
Ethylbenzene	EPA 8020	ND	ug/g	.5
Xylenes	EPA 8020	ND	ug/g	.5
TPH - Diesel	LUFT	1600	ug/g	1

MDL - Minimum Detection Limit ND - None Detected

NOTES: BTX & E detection limits are 10 times higher than usual due to matrix interferences.

Bruce L. Gove
Laboratory Director

Date Printed: 06/04/90

Alpha
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CHEMICAL EXAMINATION REPORT

Winzler & Kelly
Consulting Engineers
P O Box 1345
Eureka, CA 95501

Date Sampled: 05/16/90
Time Sampled: 09:20
Sampled By: Treichler
Date Received: 05/17/90 10:00
Sample Type: Soil

Batch 90-0517-004 consisted of 12 Samples and 62 Tests

Sample 2 Dutra Trucking Dutra # 10

	Method	Results	Units	MDL
TPH - Gasoline	LUFT	21	ug/g	1
Benzene	EPA 8020	ND	ug/g	.5
Toluene	EPA 8020	ND	ug/g	.5
Ethylbenzene	EPA 8020	ND	ug/g	.5
Xylenes	EPA 8020	ND	ug/g	.5
TPH - Diesel	LUFT	240	ug/g	1

MDL - Minimum Detection Limit ND - None Detected

NOTES: BTX & E detection limits are 10 times higher than usual due to matrix interferences.

Bruce L. Gove
Laboratory Director

Bruce L. Gove

Date Printed: 06/04/90

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CHEMICAL EXAMINATION REPORT

Winzler & Kelly
Consulting Engineers
P O Box 1345
Eureka, CA 95501

Date Sampled: 05/16/90
Time Sampled: 09:30
Sampled By: Treichler
Date Received: 05/17/90 10:00
Sample Type: Soil

Batch 90-0517-004 consisted of 12 Samples and 62 Tests

Sample 3 Dutra Trucking Dutra # 11

	Method	Results	Units	MDL
TPH - Diesel	LUFT	1200	ug/g	1
Benzene	EPA 8020	ND	ug/g	.5
Toluene	EPA 8020	ND	ug/g	.5
Ethylbenzene	EPA 8020	ND	ug/g	.5
Xylenes	EPA 8020	9.8	ug/g	.5

MDL - Minimum Detection Limit ND - None Detected

NOTES: BTX & E detection limits are 10 times higher than usual due to matrix interferences.

Bruce L. Gove
Laboratory Director

Bruce L. Gove

Date Printed: 06/04/90

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CHEMICAL EXAMINATION REPORT

Winzler & Kelly
Consulting Engineers
P O Box 1345
Eureka, CA 95501

Date Sampled: 05/16/90
Time Sampled: 09:45
Sampled By: Treichler
Date Received: 05/17/90 10:00
Sample Type: Soil

Batch 90-0517-004 consisted of 12 Samples and 62 Tests

Sample 4 Dutra Trucking Dutra # 12

	Method	Results	Units	MDL
TPH - Diesel	LUFT	1100	ug/g	1
Benzene	EPA 8020	ND	ug/g	.5
Toluene	EPA 8020	ND	ug/g	.5
Ethylbenzene	EPA 8020	ND	ug/g	.5
Xylenes	EPA 8020	1.8	ug/g	.5

MDL - Minimum Detection Limit ND - None Detected

NOTES: BTX & E detection limits are 10 times higher than usual due to matrix interferences.

Bruce L. Gove
Laboratory Director

Date Printed: 06/04/90

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CHEMICAL EXAMINATION REPORT

Winzler & Kelly
Consulting Engineers
P O Box 1345
Eureka, CA 95501

Date Sampled: 05/16/90
Time Sampled: 10:00
Sampled By: Treichler
Date Received: 05/17/90 10:00
Sample Type: Soil

Batch 90-0517-004 consisted of 12 Samples and 62 Tests

Sample 5 Dutra Trucking Dutra # 13

	Method	Results	Units	MDL
TPH - Diesel	LUFT	550	ug/g	1
Benzene	EPA 8020	ND	ug/g	.5
Toluene	EPA 8020	ND	ug/g	.5
Ethylbenzene	EPA 8020	ND	ug/g	.5
Xylenes	EPA 8020	6.8	ug/g	.5

MDL - Minimum Detection Limit ND - None Detected

NOTES: BTX & E detection limits are 10 times higher than usual due to matrix interferences.

Bruce L. Gove
Laboratory Director

Date Printed: 06/04/90

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CHEMICAL EXAMINATION REPORT

Winzler & Kelly
Consulting Engineers
P O Box 1345
Eureka, CA 95501

Date Sampled: 05/16/90
Time Sampled: 10:10
Sampled By: Treichler
Date Received: 05/17/90 10:00
Sample Type: Soil

Batch 90-0517-004 consisted of 12 Samples and 62 Tests

Sample 6 Dutra Trucking Dutra # 14

	Method	Results	Units	MDL
TPH - Diesel	LUFT	920	ug/g	1
Benzene	EPA 8020	ND	ug/g	.5
Toluene	EPA 8020	ND	ug/g	.5
Ethylbenzene	EPA 8020	ND	ug/g	.5
Xylenes	EPA 8020	ND	ug/g	.5

MDL - Minimum Detection Limit ND - None Detected

NOTES: BTX & E detection limits are 10 times higher than usual due to matrix interferences.

Bruce L. Gove
Laboratory Director

Date Printed: 06/04/90

Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482
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CHEMICAL EXAMINATION REPORT

Winzler & Kelly
Consulting Engineers
P O Box 1345
Eureka, CA 95501

Date Sampled: 05/16/90
Time Sampled: 10:20
Sampled By: Treichler
Date Received: 05/17/90 10:00
Sample Type: Soil

Batch 90-0517-004 consisted of 12 Samples and 62 Tests

Sample 7 Dutra Trucking Dutra # 15

	Method	Results	Units	MDL
TPH - Diesel	LUFT	1200	ug/g	1
Benzene	EPA 8020	ND	ug/g	.5
Toluene	EPA 8020	ND	ug/g	.5
Ethylbenzene	EPA 8020	ND	ug/g	.5
Xylenes	EPA 8020	2.9	ug/g	.5

DL - Minimum Detection Limit ND - None Detected

OTES: BTX & E detection limits are 10 times higher than usual due to matrix interferences.

Bruce L. Gove
Laboratory Director

Date Printed: 06/04/90

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Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482
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CHEMICAL EXAMINATION REPORT

Winzler & Kelly
Consulting Engineers
P O Box 1345
Eureka, CA 95501

Date Sampled: 05/16/90
Time Sampled: 10:30
Sampled By: Treichler
Date Received: 05/17/90 10:00
Sample Type: Soil

Batch 90-0517-004 consisted of 12 Samples and 62 Tests

Sample 8 Dutra Trucking Dutra # 16

	Method	Results	Units	MDL
TPH - Diesel	LUFT	820	ug/g	1
Benzene	EPA 8020	ND	ug/g	.5
Toluene	EPA 8020	ND	ug/g	.5
Ethylbenzene	EPA 8020	ND	ug/g	.5
Xylenes	EPA 8020	ND	ug/g	.5

MDL - Minimum Detection Limit ND - None Detected

NOTES: BTX & E detection limits are 10 times higher than usual due to matrix interferences.

Bruce L. Gove
Laboratory Director

Date Printed: 06/04/90

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(707) 468-0401

CHEMICAL EXAMINATION REPORT

Winzler & Kelly
Consulting Engineers
P O Box 1345
Eureka, CA 95501

Date Sampled: 05/16/90
Time Sampled: 10:35
Sampled By: Treichler
Date Received: 05/17/90 10:00
Sample Type: Soil

Batch 90-0517-004 consisted of 12 Samples and 62 Tests

Sample 9 Dutra Trucking Dutra # 17

	Method	Results	Units	MDL
TPH - Diesel	LUFT	160	ug/g	1
Benzene	EPA 8020	ND	ug/g	.5
Toluene	EPA 8020	ND	ug/g	.5
Ethylbenzene	EPA 8020	ND	ug/g	.5
Xylenes	EPA 8020	ND	ug/g	.5

MDL - Minimum Detection Limit ND - None Detected

NOTES: BTX & E detection limits are 10 times higher than usual due to matrix interferences.

Bruce L. Gove
Laboratory Director

Date Printed: 06/04/90

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Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482
(707) 468-0401

CHEMICAL EXAMINATION REPORT

Winzler & Kelly
Consulting Engineers
P O Box 1345
Eureka, CA 95501

Date Sampled: 05/16/90
Time Sampled: 10:40
Sampled By: Treichler
Date Received: 05/17/90 10:00
Sample Type: Soil

Batch 90-0517-004 consisted of 12 Samples and 62 Tests

Sample 10 Dutra Trucking Dutra # 18

	Method	Results	Units	MDL
TPH - Diesel	LUFT	720	ug/g	1
Benzene	EPA 8020	ND	ug/g	.5
Toluene	EPA 8020	ND	ug/g	.5
Ethylbenzene	EPA 8020	ND	ug/g	.5
Xylenes	EPA 8020	ND	ug/g	.5

MDL - Minimum Detection Limit ND - None Detected

NOTES: BTX & E detection limits are 10 times higher than usual due to matrix interferences.

Bruce L. Gove
Laboratory Director

Date Printed: 06/04/90

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(707) 468-0401

CHEMICAL EXAMINATION REPORT

Winzler & Kelly
Consulting Engineers
P O Box 1345
Eureka, CA 95501

Date Sampled: 05/16/90
Time Sampled: 10:50
Sampled By: Treichler
Date Received: 05/17/90 10:00
Sample Type: Soil

Batch 90-0517-004 consisted of 12 Samples and 62 Tests

Sample 11 Dutra Trucking Dutra # 19

	Method	Results	Units	MDL
TPH - Diesel	LUFT	560	ug/g	1
Benzene	EPA 8020	ND	ug/g	.5
Toluene	EPA 8020	ND	ug/g	.5
Ethylbenzene	EPA 8020	ND	ug/g	.5
Xylenes	EPA 8020	ND	ug/g	.5

MDL - Minimum Detection Limit ND - None Detected

NOTES: BTX & E detection limits are 10 times higher than usual due to matrix interferences.

Bruce L. Gove
Laboratory Director

Date Printed: 06/04/90

Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482
(707) 468-0401

CHEMICAL EXAMINATION REPORT

Winzler & Kelly
Consulting Engineers
P O Box 1345
Eureka, CA 95501

Date Sampled: 05/16/90
Time Sampled: 11:00
Sampled By: Treichler
Date Received: 05/17/90 10:00
Sample Type: Soil

Batch 90-0517-004 consisted of 12 Samples and 62 Tests

Sample 12 Dutra Trucking Dutra # 20

	Method	Results	Units	MDL
TPH - Diesel	LUFT	470	ug/g	1
Benzene	EPA 8020	ND	ug/g	.5
Toluene	EPA 8020	ND	ug/g	.5
Ethylbenzene	EPA 8020	ND	ug/g	.5
Xylenes	EPA 8020	ND	ug/g	.5

MDL - Minimum Detection Limit ND - None Detected

NOTES: BTX & E detection limits are 10 times higher than usual due to matrix interferences.

Bruce L. Gove
Laboratory Director

Date Printed: 06/04/90

WORK ORDER
CHAIN OF CUSTODY

Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482
(707) 468-0401

Client: Winzler & Kelly
Address: P.O. Box 1345
Eureka CA 95521
Phone: 443-8326

Signature of person authorizing work under terms stated below*: Dianne Treichler

*Net 30 days. All accounts past due will be subject to interest charges of 1.5% per month.
*Hazardous materials are the property of the client. The client is responsible for proper disposal of hazardous wastes. Clients not picking up hazardous wastes may be assessed an appropriate fee.

PROJECT ID: Dutra Trucking
SAMPLED BY: (signature): Dianne Treichler

Date	Time	Grab	Comp	Sample Location	No. of Containers	TPH-Diesel	BTEX	TPH-Gasoline					REMARKS
5/16/90	9:15		X	Dutra #9	1	X	X	X					90-0517-4-1
	9:20		X	Dutra #10	1	X	X	X					90-0517-4-2
	9:30		X	Dutra #11	1	X	X						90-0517-4-3
	9:45		X	Dutra #12	1	X	X						90-0517-4-4
	10:00		X	Dutra #13	1	X	X						90-0517-4-5
	10:10		X	Dutra #14	1	X	X						90-0517-4-6
	10:20		X	Dutra #15	1	X	X						90-0517-4-7
	10:30		X	Dutra #16	1	X	X						90-0517-4-8
	10:35		X	Dutra #17	1	X	X						90-0517-4-9
	10:40		X	Dutra #18	1	X	X						90-0517-4-10
	10:50		X	Dutra #19	1	X	X						90-0517-4-11
	11:00		X	Dutra #20	1	X	X						90-0517-4-12

Relinquished by (signature):	Date	Time	Received by (signature):	Date	Time
Dianne Treichler	5/16/90	~3:00	To UPS shipping		
Relinquished by (signature): U.P.S.	Date	Time	Received by (signature): Via U.P.S. [illegible] Alpha Labs	Date 5/17/90	Time 1000
Relinquished by (signature):	Date	Time	Received by (signature):	Date	Time
Relinquished by (signature):	Date	Time	Received by (signature):	Date	Time
Relinquished by (signature):	Date	Time	Received by (signature):	Date	Time

Site Time:
Start: Finish: Total Hours:

Driving Time:
Start: Finish: Total Hours:

Alpha Analytical Laboratories Inc. ▪ 860 Waugh Lane, H-1, Ukiah, California 95482
(707) 468-0401

CHEMICAL EXAMINATION REPORT

Winzler & Kelly
Consulting Engineers
P O Box 1345
Eureka, CA 95501

Date Sampled: 05/21/90
Time Sampled: 12:15
Sampled By: Treichler
Date Received: 05/22/90 11:30
Sample Type: Soil

Batch 90-0522-018 consisted of 1 Sample and 5 Tests

Sample 1 PJ# 90-140-A30 Dutra # 21

	Method	Results	Units	MDL
TPH - Diesel	LUFT	1.5	ug/g	1
Benzene	EPA 8020	ND	ug/g	.05
Toluene	EPA 8020	ND	ug/g	.05
Ethylbenzene	EPA 8020	ND	ug/g	.05
Xylenes	EPA 8020	ND	ug/g	.05

MDL - Minimum Detection Limit ND - None Detected

NOTES:

Bruce L. Gove
Laboratory Director

Date Printed: 06/04/90

WORK ORDER
CHAIN OF CUSTODY

Alpha
Alpha Analytical Laboratories Inc. • 860 Waugh Lane, H-1, Ukiah, California 95482
(707) 468-0401

Client: Winzler & Kelly
Address: P.O. Box 1345
Eureka CA 95521
Phone: ~~445-1321~~ 443-8326

Signature of person authorizing work under terms stated below*: Dianne Treichler

*Net 30 days. All accounts past due will be subject to interest charges of 1.5% per month.
*Hazardous materials are the property of the client. The client is responsible for proper disposal of hazardous wastes. Clients not picking up hazardous wastes may be assessed an appropriate fee.

PROJECT ID: 90-140-A30
SAMPLED BY: (signature): D. Treichler

Date	Time	Sample Type: Grab	Sample Type: Comp	Sample Location	No. of Containers	ANALYSIS: TPH-Diesel	ANALYSIS: BTEX	REMARKS
5/21	12:15	X		Dutra #21	1	X	X	

Relinquished by (signature):	Date	Time	Received by (signature):	Date	Time
Dianne Treichler	5/21/90	3:45	To UPS	5/21/90	23:45
Relinquished by (signature):	Date	Time	Received by (signature):	Date	Time
Relinquished by (signature):	Date	Time	Received by (signature):	Date	Time
Relinquished by (signature):	Date	Time	Received by (signature):	Date	Time
Relinquished by (signature):	Date	Time	Received by (signature):	Date	Time

Site Time: Start: Finish: Total Hours:

Driving Time: Start: Finish: Total Hours:

Copy

WINZLER & KELLY

638 Third Street/P.O. Box 1345/Eureka, CA 95501/707-443-8326/Fax: 707-444-8330

Refer to: 90129701.031

February 23, 1994

Mr. Miguel Villicana
California Regional Water
Quality Control Board
5550 Skylane Blvd., Suite A
Santa Rosa, CA 95403

Subject: Dutra Trucking Company, 5005 Boyd Road, Arcata, CA
UGT No. 1THU264

Dear Mr. Villicana:

This letter is in response to your letter dated July 20, 1993, addressed to Mr. Ron Angell, who is representing the responsible party of the above-referenced site. Your July 1993 letter requests additional information to assist you in determining if closure of the site is appropriate at this time.

You requested clarification of a discrepancy on the total number of tanks removed from the site. A letter report prepared by Winzler & Kelly and dated August 13, 1990 indicated the removal of five underground tanks with capacities of 7,500, 6,300, 5,000, and two at 10,000 gallons. This was inconsistent with copies of the precision tank test results which indicated that there were six tanks with capacities of 3,300, 6,700, 10,000, 7,500, 6,000, and 8,000 gallons.

A review of the file and communication with involved individuals revealed that the two 10,000 gallon underground storage tanks that were removed were former railroad car tanks. Apparently, one of these 10,000 gallon tanks contained two compartments of approximately 3,300 and 6,700 gallons each. The precision testing was performed on each compartment of this tank and the results were presented as two separate tanks.

Capacities of the five underground tanks are as reported in Winzler & Kelly's August 13, 1990 letter report. At the time of tank removals, Dianne Treichler of Winzler & Kelly measured the diameter and lengths of the tanks and calculated the capacities. The precision testing results reflect tank sizes that are assumed or approximate. The correct correlation comparing assumed precision testing capacities to actual capacities is as follows: The 3,300 and the 6,700 gallon tanks account for one of the 10,000 gallon tanks removed. The other 10,000 gallon tank is accounted for. The 7,500 gallon tank is the 6,300 gallon tank. The 6,000 gallon tank is the 5,000 gallon tank. The 8,000 gallon tank is the 7,500 gallon tank.

WINZLER & KELLY
CONSULTING ENGINEERS

Mr. Miguel Villicana
February 23, 1994
Page 2

Per your request, please find enclosed a copy of a scaled map which shows the locations where known neighboring wells exist in relation to the former location of the underground tanks on the Dutra Trucking site. Also enclosed is a brief description of all known information on each of the wells found on the map.

Please do not hesitate to contact me at 707-443-8326 should you have any questions.

Very truly yours,

WINZLER & KELLY

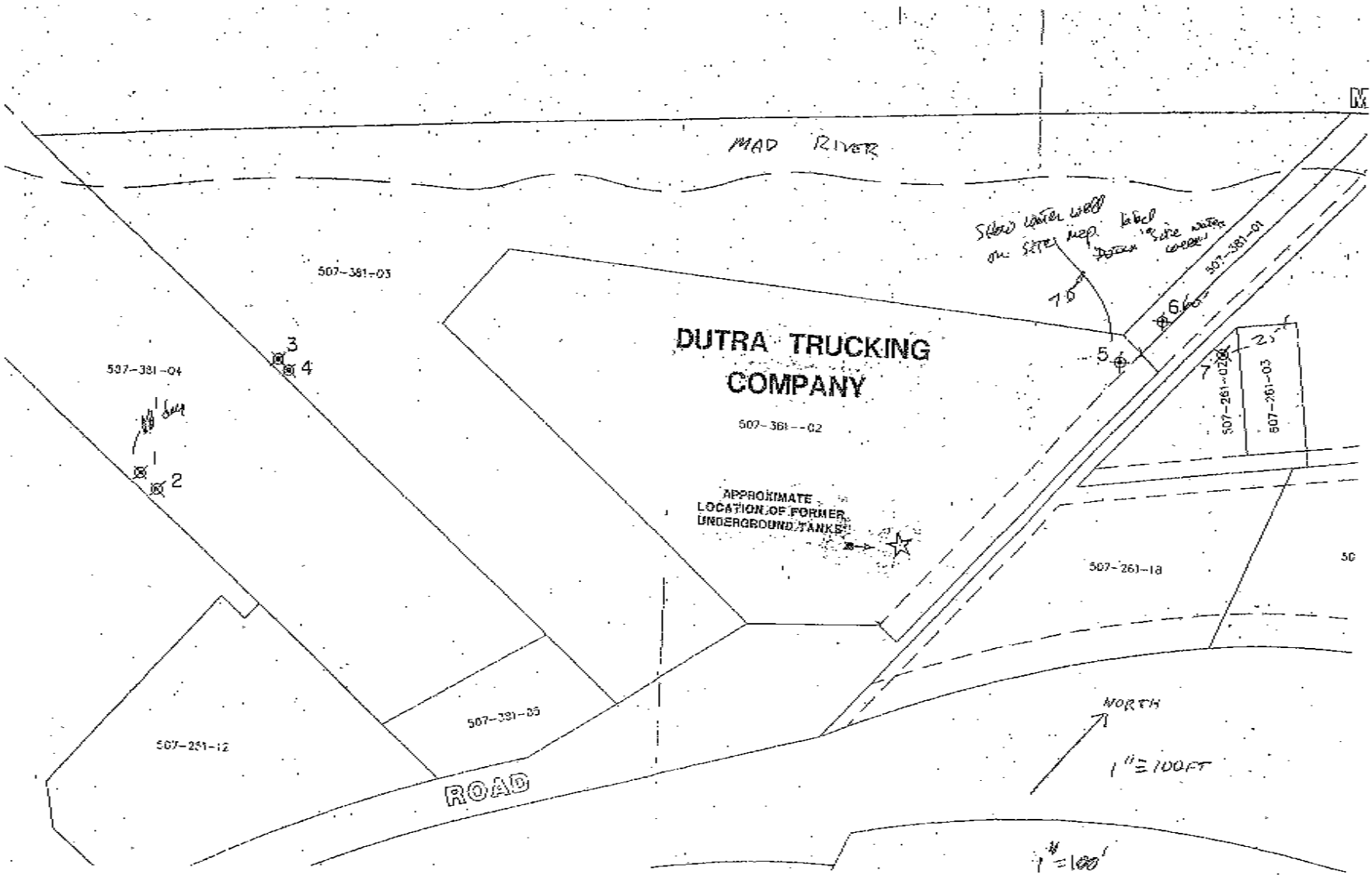
Dennis Baertschi

cc: Mr. Ron Angell, Attorney at Law
Mr. Frank Dutra, Dutra Trucking
Mr. Jim Clark, Humboldt County Health Department

WELL DESCRIPTIONS

Well No.	Description
#1	18′ deep, 2′ concrete case well
#2	Depth N/A, 12" steel case well Town & Country Mobile Home Village 4855 Boyd Road, Arcata, CA
#3	8" steel case well, depth N/A Arcata Readimix - Bill O'Neal, Jr. 4945 Boyd Road, Arcata, CA
#4	8" steel case well, depth N/A Mr. O'Neal, Sr. 4975 Boyd Road, Arcata, CA
#5	8" steel case well, 75′ deep Dutra Trucking 5005 Boyd Road, Arcata, CA
#6	12" steel case well, 60′ deep Louisiana Pacific Corporation Boyd Road, Arcata, CA
#7	Well 25′ deep, 8" steel case well, not in use Mr. Villiers 5073 Boyd Road, Arcata, CA
#8	40′ deep, 8" steel case well with 4′ concrete case outside 3 Point Logging Company 5211 Boyd Road, Arcata, CA

Well No.	Description
#9	4' concrete case lid on well; well 20' deep North Coast Redwood 5300 Boyd Road, Arcata, CA
#10	6" pvc case well, depth N/A Ranch Supply Company 5307 Boyd Road, Arcata, CA


MAD RIVER
507-381-03
507-381-04
507-381-05
507-251-12
507-381-01
507-261-02
507-261-03
507-261-18
DUTRA TRUCKING COMPANY
507-361--02
APPROXIMATE LOCATION OF FORMER UNDERGROUND TANKS
ROAD
NORTH
1" = 100FT
1" = 100'
1
2
3
4
5
6
7

EXPLORATION HOLE LOG

PROJ. NAME: Dutra Property
METHOD OF DRILL: Hollow Stem Auger
SAMPLER: Split Spoon DD: ___ ID: ___
BORING DIAMETER: 8 1/4
DRILLING CO: Clear Heart
C57 LIC. # 154184
Portable Drill # DR 10K

PROJECT NO. 90129701
LOCATION: Arcata
LOGGED BY: Guzi
DATE STARTED: 11-20-03
DATE COMPLETED: 11-20-03
TOTAL DEPTH OF HOLE: 26.5 Ft.

Sheet of
MW-1
HOLE#
TIME:
TIME:

SOIL DESCRIPTION

DESCRIPTION & REMARKS	COLOR	MOIST.	CONSIST.	SOIL TYPE	DEPTH	JARS	SACKS	SAMPLES NO.	SAMPLES SPLIT SPOON	SAMPLES SERIES	BLOWS/FOOT
	(FT ASPHALT & SUB GRADE DK. GRAY POSS. FILL (-3.5 FT (~~[illegible]~~ COMPACT SANDY SILT CONSISTENT MATIVE? SANDY SILT BELOW 3.5 FT (GREENISH BROWN)				1	Blank			Cement Bentonite		
					2						
					3						
					4						
09:10 - no odor	dark brown	very cohesive, moderately plastic	~~[illegible]~~ clayey silt	ML	5						
					6						5-6-9
					7						
					8						
					9		2/12				
09:22 - no odor	dark brown	very cohesive, ~~[illegible]~~, moderately plastic	clayey silt	ML	10						
					11						3-3-3
					12		Sand				
					13						
					14						
09:30 - no odor	dark brown				15						3-4-6
					16						
		very ~~[illegible]~~ 16.5 (inertial) cohesive, moderately plastic	clayey silt	ML	17						
					18						
09:41 - no odor	light brown	slightly cohesive, non-~~cohesive~~ plastic	very fine sands	SM	19						
					20						10-13-1
					21						
					22						
					23						
					24						
10:05 - no odor	light brown	slightly cohesive, non-plastic	very fine sands	SM	25						
					26						
					27						

DEPTH TO WATER (SPACE)

EXPLORATION HOLE LOG

PROJ. NAME: Dutra Property
METHOD OF DRILL: Hollow Stem Auger
SAMPLER: Split Spoon OD: ____ ID: ____
BORING DIAMETER: 8-¼
DRILLING CO: Clear Heart
CS7 LIC. # 154184
Drill # DR10K

PROJECT NO. 90129701
LOCATION: Arcata
LOGGED BY: Gori
DATE STARTED: 11-20-03
DATE COMPLETED: 11-20-03
TOTAL DEPTH OF HOLE: 21.5 Ft.

Sheet of
HOLE# MW-2
TIME:
TIME:

SOIL DESCRIPTION

DESCRIPTION & REMARKS	COLOR	MOIST.	CONSIST.	SOIL TYPE	DEPTH	JARS	SACKS	SAMPLES NO.	SAMPLES SPLIT SPOON	SAMPLES SERIES	BLOWS/FOOT
	1ft. - asphalt 1-3ft gravel possible fill				1						
					2						
					3						
12:05 - no odor	dark brown	very cohesive moderate plasticity	clayey silt	ML	4						
					5						3-6
					6						
					7						
					8						
12:15 - no odor	dark brown moist	very cohesive moderate plasticity	clayey silt	ML	9						
					10						
					11						3-4
					12						
					13						
12:16 - no odor	dark brown moist, very	very cohesive moderate plasticity	clayey silt	ML	14						
					15						3-4
					16						
					17						
					18						
					19						
12:26 - no odor	dark brown moist	very cohesive moderate plasticity	clayey silt	ML	20						
					21						4-5-6
					22						
					23						
					24						
					25						
					26						

Blank

Cement Bentonite

Fuss-eille

WINZLER & KELLY

EXPLORATION HOLE LOG

PROJ. NAME: Petro Property
METHOD OF DRILL: Hollow Stem Auger
SAMPLER: Split Spoon OD: ____ ID: ____
BORING DIAMETER: 8-1/4"
DRILLING CO: Clear Heart
CSF LIC. # 154184
Drill # DR10K

PROJECT NO. 90129701
LOCATION: Arcata
LOGGED BY: B.J.
DATE STARTED: 11-21-03
DATE COMPLETED: 11-21-03
TOTAL DEPTH OF HOLE: 16.5 ft.

Sheet of
HOLE# MW-3
TIME:
TIME:

SOIL DESCRIPTION

DESCRIPTION & REMARKS	COLOR	MOIST.	CONSIST.	SOIL TYPE	DEPTH	JARS	SACKS	SAMPLES NO.	SPLIT SPOON	SERIES	BLOWS/FOOT
	1 ft. asphalt fill material (GW) from 1-7ft.				1						
					2						
					3						
09:18 - odor - solvent?	very dark brown	moderate cohesive, no free water	sandy gravel	GW	4						
	7-10 ft. - fine-grained sands - fill material w/o silt				5						11-15-12
					6						
					7						
					8						
09:25 - odor - solvent	dark grey	slight cohesive, no free water	gravelly sand, well graded mixture	SW	9						
					10						
					11						7-7-7
					12						
					13						
09:30 - no odor	14 ft. - appears to be native soil, transition from fill - native brown w/ grey mottling	very cohesive	clayey silt	ML	14						
					15						4-5-7
					16						
					17						
					18						
					19						
					20						

BOTTOM OF UST CAVITY APPEARS TO BE ~14 FT BGS. MOTTLED SILT FINES 15-16.5. GRAD TO TD 16.5'

Cement
Bentonite
2/3 full

WINZLER & KELLY

EXPLORATION HOLE LOG

PROJ. NAME: Dutra Property
METHOD OF DRILL: Hollow Stem Auger
SAMPLER: Split Spoon DD: ____ ID: ____
BORING DIAMETER: 8-1/4"
DRILLING CO: Clear Heart
C57 LIC. # 154184
Drill # DRIOK

PROJECT NO. 90129701
LOCATION: Arcata
LOGGED BY: G.S.
DATE STARTED: 11-21-03
DATE COMPLETED: 11-21-03
TOTAL DEPTH OF HOLE:

Sheet of
HOLE# MW-4
TIME:
TIME:

SOIL DESCRIPTION

DESCRIPTION & REMARKS	COLOR	MOIST.	CONSIST.	SOIL TYPE	DEPTH	JARS	SACKS	SAMPLES NO.	SPLIT SPOON	SERIES	BLOWS/FOOT
	1 ft - asphalt appears to be native soil below asphalt				1						
					2						
					3						
11:04 - no odor	brown w/ gray mottling at 6.5 ft.	very cohesive no free water	clayey silt	ML	4						
					5						12-5
					6						
					7						
					8						
					9						
11:12 - no odor	brown w/ gray mottling	moist, very cohesive	clayey silt w/ very fine sands	ML	10						3-4
					11						
					12						
					13						
					14						
11:23 - no odor	brown w/ gray mottling	moist, very cohesive	clayey silt w/ ~~very fine~~	ML	15						4-5
					16						
					17						
					18						
					19						
11:41 - no odor	brown	moist, slightly cohesive	very fine sands	SM	20						7-13
					21						
					22						
					23						
					24						
11:50 - no odor	light brown	non-cohesive appeared to encounter bedrock @ 26 ft.	gravelly SW sands		25						31-37
					26						

WINZLER & KELLY

EXPLORATION HOLE LOG

PROJ. NAME: Dutra Property
METHOD OF DRILL: Hollow Stem Auger
SAMPLER: Split Spoon OD: ____ ID: ____
BORING DIAMETER: 8-3/4"
DRILLING CO: Clear Heart
C57 LIC. # 154184
Drill # DA10K

PROJECT NO. 90129701
LOCATION: Arcata
LOGGED BY: Guzi
DATE STARTED: 11-20-03
DATE COMPLETED: 11-20-03
TOTAL DEPTH OF HOLE: 26.5 Ft.

Sheet of
HOLE# MW-5
TIME:
TIME:

SOIL DESCRIPTION

DESCRIPTION & REMARKS	COLOR	MOIST.	CONSIST.	SOIL TYPE	DEPTH	JARS	SACKS	SAMPLES NO.	SAMPLES SPLIT SPOON	SAMPLES SERIES	BLOWS/FOOT
	1-3 ft. - gravelly				1						
					2						
15:21 - no odor	dark brown	very cohesive, moderate plasticity	clayey silt	ML	3, 4, 5, 6, 7						3,5,7
15:28 - no odor	dark brown moist	very cohesive moderate plasticity	clayey silt	ML	8, 9, 10, 11, 12						3,4,4
15:38 - no odor	dark brown w/ gray & red mottling moist	very cohesive moderate plasticity	clayey silt	ML	13, 14, 15, 16, 17						4,5,6
15:46 - no odor	light brown	moderate cohesive non-plastic	very fine sands	SM	18, 19, 20, 21, 22						4,11,14
6:00 - no odor	light brown	moderate cohesive, non-plastic	very fine sands w/ clay	SC	23, 24, 25, 26						6,8,11

Blank

Cement Bentonite

Silt Sand

WINZLER & KELLY