SCS ENGINEERS

May 14, 1990 File No. 0390011.00

Burt McCutchan NESCO 4107 S. 72nd East Avenue Tulsa, Oklahoma 74145

Subject: Sample Analysis

ANR Trucking Oakland, California

Dear Mr. McCutchan:

SCS Engineers has completed the sampling and analysis of soil stockpiled at the ANR Trucking facility located at 2225 West 7th Street in Oakland, California (see Vicinity Map, Figure 1). The soil was removed during the excavation and removal of a 10,000 gallon diesel underground storage tank. This report is the final task in the fulfillment of the work outlined in Proposal #300590 dated April 11, 1990.

The purpose of this report is to present the results of various chemical analyses performed on soil samples obtained in response to Nesco's acceptance of the above-mentioned proposal. In addition, results of chemical analyses from samples obtained from two previous sampling events are presented. A summary of the findings, conclusions and recommendations follow.

BACKGROUND

- March 16, 1990. Verl's Construction, retained by Nesco, excavates and removes a 10,000 gallon diesel underground storage tank. SCS Engineers is retained by Verl's Construction to take the two required soil samples and water sample from the bottom of the tank pit (see Site Plan, Figure 2).
- March 23, 1990. SCS Engineers, retained by Marshall Ryan of Nesco, takes six composite samples of soil removed during the excavation of the diesel tank. Dennis Byrne, inspector for Alameda County Department of Environmental Health is present to oversee the sample collection.

Burt McCutchan May 14, 1990 Page 2

• April 20, 1990. SCS Engineers, pursuant to a proposal to Nesco dated April 11, 1990, again samples the stockpiled soil for the purpose of having additional chemical analyses performed.

FIELD METHODS

March 16 Sampling Event - Two samples of the backfill material were taken from the east end of the excavation during the tank pull. The soil samples were taken in clean brass sleeves; sealed with aluminum foil, plastic end caps and tape; labeled; and placed in a cooler with ice. The samples were shipped to a state-certified laboratory under chain-of-custody documentation. As water was observed in the bottom of the excavation, a sample of this water was also required. The sample was obtained using a clean plastic bailer. The water sample was sealed, labeled, and placed in a cooler for transport to the laboratory.

March 23 Sampling Event - Don McClenagan, of SCS Engineers, met with Dennis Byrne at the site to sample the stockpiled soil. The soil was arbitrarily divided, on paper, into six sections. The sampling methodology for each section was as follows: Four samples were taken from different areas in the section • The sample was obtained by scraping the top six to twelve inches from the surface and pulling several scoops of soil from beneath the surface • The four samples obtained from each section were mixed together in a plastic bucket, and a sample of the composited soil was taken in a clean brass sleeve following the protocol described in the above paragraph. In this manner, six composite samples were obtained from the stockpiled soil.

April 20 Sampling Event - Don McClenagan prepared a composite sample of the stockpiled soil using the following method: Soil samples were obtained from seven locations within the soil pile • The samples were taken by scraping the top six to twelve inches from the pile and pulling soil from beneath the surface • These seven grab samples were mixed in a clean plastic bucket • A composite sample was then taken using several clean brass tubes following the protocol described in the March 16 paragraph above. The sample was split and sent to two different labs.

Burt McCutchan May 14, 1990 Page 3

CHEMICAL METHODS

March 16 Sampling Event - The two soil samples retrieved during the excavation of the underground tank were analyzed by EPA Method 8015 for diesel and Method 8020 for benzene, toluene, ethylbenzene, and xylenes (BTEX). The sample of the pit water was analyzed by EPA Method 8015 for diesel and Method 602 for BTEX. The results of these analyses are depicted in Table 1. Copies of the laboratory reports and chain of custody documents are included in the appendix.

March 23 Sampling Event - The six composite soil samples were analyzed by EPA Method 8015 for diesel. The results of the chemical analysis for this sampling event are shown in Table 2.

April 20 Sampling Event - The composite soil sample obtained during this sampling event was split and sent to two different labs for different analyses. One part of the sample was sent to Sequoia Analytical in Redwood City for analysis using Title 22 Hazardous Waste Bioassay, 96 hour LC 50. Four simultaneous replicates of the analysis were performed and designated by lab numbers 42962 A, B, C, and D. Copies of the laboratory reports are included in the appendix.

The other part of the sample was sent to SCS Laboratory in Long Beach and analyzed using EPA Method 418.1 for total petroleum hydrocarbons (TPH), EPA Method 8020 for BTEX, Method 376.2 for sulfides, and Method 1010 for flashpoint. The results of the analyses of the April 20 sample are shown in Table 3.

SUMMARY

• The soil samples taken during the tank pull showed a maximum diesel concentration of 5100 parts per million (ppm). No benzene was detected in the soil. Concentrations of the other members of the BTEX group ranged from 0.39 to 2.83 ppm. The water sample taken from bottom of the excavation had a diesel concentration of 1300 ppm. Benzene was detected in the water at a level of 3.18 ppm. Values for the concentration of the other members of the BTEX group in the water ranged from about 0.27 to 1.13 ppm.

- The excavated soil which is stockpiled on the site contains from 3900 to 13,000 ppm diesel and 5280 ppm TPH. The analysis for total petroleum hydrocarbons measures diesel and other petroleum hydrocarbons that may be present. No benzene was detected in the composite sample taken from the stockpiled soil. Analysis did detect 0.042 ppm ethylbenzene and 0.08 ppm xylenes in the excavated backfill material.
- Analysis of the stockpiled soil detected no sulfides. Further testing determined that the flashpoint of the soil is greater than 140 degrees Fahrenheit.
- The fish bioassay performed on the composite soil sample taken from the stockpiled soil determined, due to the fact that no fish died in water containing 1000 ppm of the contaminant found in the soil, that the LC 50 for the soil was greater than 1000 ppm. The test was performed simultaneously on four separate minnow populations.

CONCLUSIONS AND RECOMMENDATIONS

The soil still in the ground in the immediate vicinity of the volume formerly occupied by the removed tank is probably contaminated by diesel in concentrations exceeding 1000 ppm. The groundwater in the immediate vicinity of the former location of the pulled tank is also contaminated with diesel.

The stockpiled soil contains diesel in amounts greater than 1000 ppm. The 96 hour LC50 bioassay showed that the LC50 for the soil was greater than 1000 ppm. The flashpoint for the material was determined to be greater than 140 degrees Fahrenheit. As a result of the latter two analyses, the Alameda County Environmental Health Department will probably consider that the soil has been demonstrated to be non-hazardous. As the soil is non-hazardous, it may be transported and disposed as a non-hazardous material.

Burt McCutchan May 14, 1990 Page 5

SCS recommends that two separate courses of action be implemented on the ANR Freight Lines site, as follows:

- Investigation should be made regarding the disposal of the stockpiled soil at a Class 2 or Class 3 landfill. This investigation will consist of submitting a waste profile sheet describing the characteristics of the soil and the subsequent cost charged by the landfill for it to accept the soil. A cost for loading and transporting the soil should also be confirmed. Provided that the cost figures for disposal of the soil in a landfill are acceptable to the client, then such disposal should be carried out.
- Three groundwater monitoring wells should be installed in the vicinity of the underground storage tank to help determine the extent of soil and groundwater contamination, to provide a means of monitoring the groundwater beneath the site, and to allow the determination of the direction of groundwater movement beneath the subject site. There will possibly be need for further soil borings or monitoring wells, depending upon the results of this subsurface investigation.

SCS has already begun investigation into the disposal of the stockpiled soil in response to the request of Marshall Ryan on April 30, 1990.

SCS will be pleased to provide a cost estimate for carrying out the installation and monitoring of the recommended monitoring wells or any other environmental work which may be required. If we may be of further service to you, please call at (415) 829-0661.

Sincerely,

J. Don McClenagan

Statt Geologist

SCS Engineers

John P. Cummings, Ph.D., R.E.A., R.E.P.

Office Director SCS Engineers

JDM/JPC/egh attachment

cc: Dennis Byrne, Alameda County Environmental Health

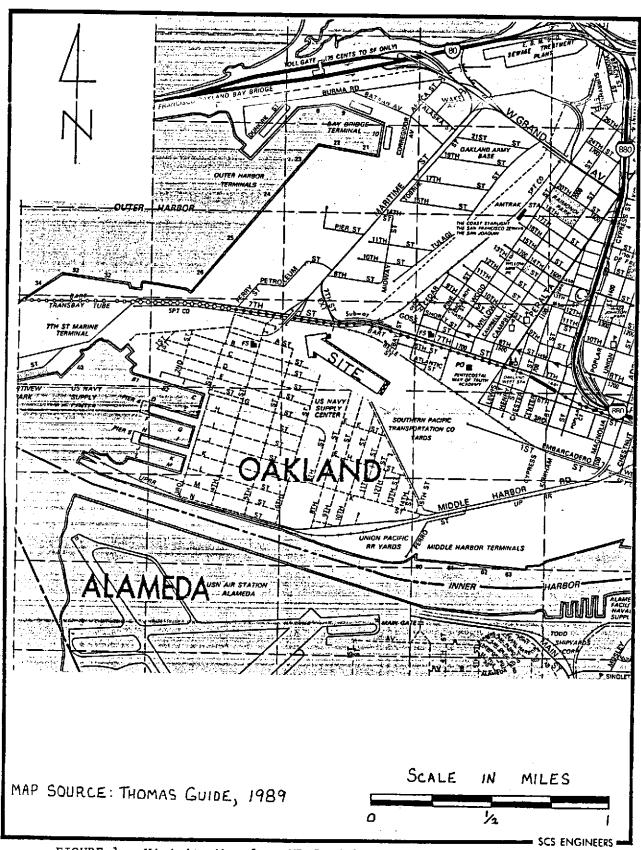
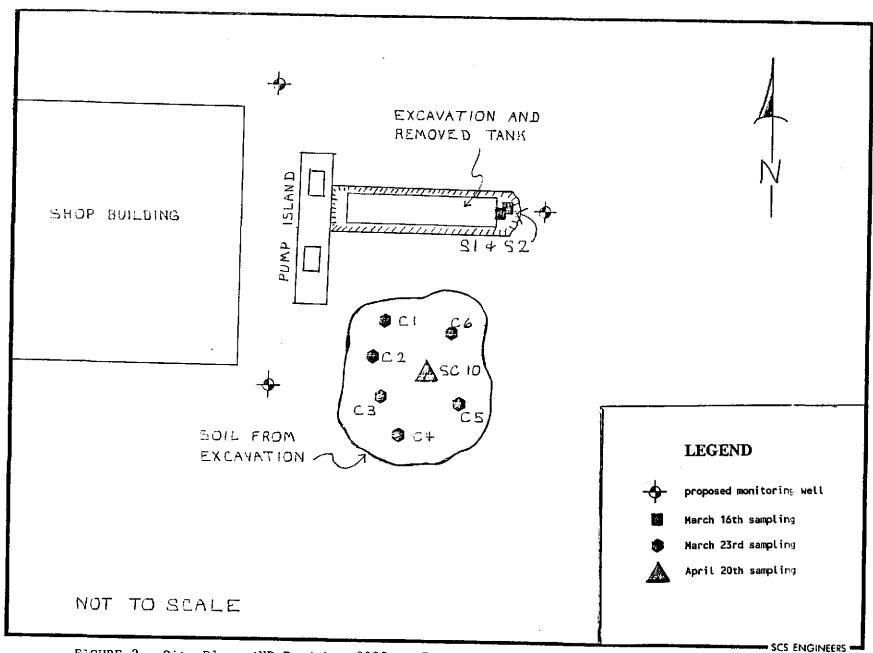


FIGURE 1 - Vicinity Map for ANR Freight



FlGURE 2 - Site Plan, ANR Freight, 2225 W. 7th, Oakland, California

TABLE 1 - March 16th Sampling

Sample I.D.	EPA Method	Compound	Amount Detected (in ppm)
S1 (soil)	8015 8020	diesel benzene toluene ethylbenzene	5,100 ND 1.37 1.22
	LUFT	xylenes organic lead	2.83 ND
S2 (soil)	8015 8020	diesel benzene ethylbenzene toluene	2,900 ND 0.616 0.392
	LUFT	xylenes organic lead	1.83 ND
W (water)	8015 602	diesel benzene toluene ethylbenzene xylenes	1300 3.18 1.06 0.269 1.13

ND = not detected

TABLE 2 - March 20th Sampling

Sample I.D.	EPA Method	Compound	Amount Detected (in ppm)
C1 (soil)	8015	diesel	9,200
C2 (soil)	1)	11	13,000
C3 (soil)	II .	u	9,000
C4 (soil)	II .	**	8,100
C5 (soil)	n	n	2,400
C6 (soil)	ti	H	3,900

TABLE 3 - April 20th Sampling

Sample I.D.	Method	Results
SC10 (soil)	Title 22, 96 hr LC 50 - fish bioassay	LC50: >1,000 ppm. Non-hazardous
U	EPA 418.1, TPH	5,280 ppm detected
Ħ	376.2, sulfides	none detected
н	1010, flashpoint	>140° F.
tt	EPA 8020, BTEX	benzene = none detected toluene = none detected ethylbenzene = 0.042 ppm xylenes = 0.080 ppm

ppm = parts per million

IAIN OF CUSTODY REC			ANA
Name (signature) Name (print) Company Don Mc Clency Company FFF SCS Engineer Address 6761 Swra Conri City, State, Zip Dublin, CA Telephone (415) 829 - 0661	Sample Location	LONG BEACH, CAL	73) 595-9324 8) 595-6709
Relinquished by (Signature) Relinquished by (Signature)	Received by (Signature		Time
Analysis laboratory si	hould complete "sample cond. L sign, and return copy to Sh	upon receipt" section belo	ow,
Sample Sample No. of Type Cont. Si Soil	Site Date Identification Sampled 1th Oakland 3/16/30 Juan aroun Tuma	Requested 1 8015 Dec 8020	Sample Cond. Jpon Receipt

PLEASE seturn coolers and ice.

CHAIN OF CUSTODY RECORD

386)

ANALYTICAL PERSONNEL SITE INFORMATION LONG BEACH, CALIFORNIA 90806 Sampler (Signature) Job Number Sample Location _ Field Crew Supervisor Field Company P. Cummings Project Geologist/Engineer John P.O. Number Relinquished, bx (Signature) 3-23 Received by (Signature) T1me Date. Relinquished by (Signature) Received by (Signature) Time Analysis laboratory should complete "sample cond. upon receipt" section below. sign, and return copy to Shipper Sample Sample No. of Date Analysis Sample Cond. Number Туре Cont. <u>Identification</u> <u>Sampled</u> Requested Upon Receipt 1th St. -Ockland 8015-17

Remarks: Please either return ice chest, blue ice, COC copy A.S.A.P.

on sell them all to help buy adult board for use in space time
Thank you;

CHAIN OF CUSTODY RECORD 393

SCS ANALYTICAL LABORATORY

PERSONN	EL			SITE INFORMATION	LONG BEACH, CALIFOR	IUT AVENUE NIA 90806 595-9324
Field ((Signature) (4/5) 8 Crew Supervisor (company (c	Don 1	ACLEMAJAN MCLEMAJAN Cummings	ANR TRUC Oakland) 011.00 I. Excavated Soi	12
Don		enagan	N 7 - 10 (V)	red by (Signature) Herrera	Date 4/20	Time 11:25
Relinqu	ished by (Sign	ature)	Receiv	ed by (Signature)	Date	Time
	Analysis	laboratory	should complete sign, and ret	"sample cond. upon rec urn copy to Shipper	eipt" section below	•
Sample Number SC 10	Sample Type Soil	No. of Cont. 3	Site Identification ANR-Oakland	Sampled 4-20-80 LC 810		mple Cond. on Receipt

SCS ANALYTICAL LABORATORY

PERSONNEL	SITE INFORMATION	LONG BEACH, CALIF	
Sampler (Signature) Don M = 10M2 Phone 415 829 0661 (Field Crew Supervisor Don Micles Field Company Project Geologist/Engineer John Cum	ngan ANK Daklo	Trucking	
Relinquished by (Signature) 4-20-9	Received by (Signature)	Date	Time
Relinquished by (Signature)	Received by (Signature)	Date	Time
Analysis laboratory should c	omplete "sample cond. upon r and return copy to Shipper	eceipt" section bel	ow,
			Sample Cond. Upon Receipt

file



MEMO

To: John Cummings

From: Curtis B. Jenkins

Job No.: 0389079

2860 WALNUT AVENUE LONG BEACH, CALIFORNIA 90806 [213] 595-9324 FAX [213] 595-6709

March 19, 1990

Page 1 of 3

LABORATORY REPORT

Samples: Two (2) soil samples from Verl's - 7th Street, Oakland,

CA received 3/17/90, analyzed 3/19/90. (SUPER RUSH)

Sample ID

EPA 8015-D

---mg/kg---

S1 S2

5,100 (D) 2,900 (D)

Detection Limit

10

EPA 8020 - see attached sheets.

David Mikesell Chemist

Curtis B. Genkins

Vice President, Analytical Srv.

verl8.rep



Addendum Report, EPA 8020 Page 2 of 3

2860 WALNUT AVENUE LONG BEACH, CAUFORNIA 90806 (213) 595-9324 FAX (213) 595-6709

Sample I.D.: S1

Date Received: 3/16/90 Date Analyzed: 3/19/90

Matrix: Soil Project #: 389079 File #: Verl8.rep

Compound	Result ug/kg	D.L.
Benzene Chlorobenzene	ND ND	500 500
Ethylbenzene Toluene	1,220 1,370	500
Xylenes 1,2-Dichlorobenzene	2,830	500 500
1,3-Dichlorobenzene 1,4-Dichlorobenzene	ND ND	500 500
1,4 proutoropeuseue	ND	500

D.L. = Detection Limit
ND = Not Detected



Addendum Report, EPA 8020 Page 3 of 3

2860 WALNUT AVENUE LONG BEACH, CALIFORNIA 90806 (213) 595-9324 FAX (213) 595-6709

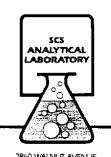
Sample I.D.: S2

Date Received: 3/16/90 Date Analyzed: 3/19/90

Matrix: Soil Project #: 389079 File #: Verl8.rep

Compound	Result	D.L.
Damaga	ug/kg	(ppb)
Benzene	ND	200
Chlorobenzene	ND	200
Ethylbenzene	616	200
Toluene	392	200
Xylenes	1,830	200
1,2-Dichlorobenzene	ND	200
1,3-Dichlorobenzene	ND	200
1,4-Dichlorobenzene	ND	200

D.L. = Detection Limit
ND = Not Detected



MEMO

John Cummings

From: Curtis B. Jenkins

Job No.: 0389079

2860 WALNUT AVENUE LONG BEACH, CALIFORNIA 90806 (2131 595-9324 FAX (213) 595-6709

March 30, 1990

Page 1 of 2

LABORATORY REPORT

Samples: Three (3) water samples from Verl's Oakland,

CA received 3/16/90, analyzed 3/24/90.

Sample ID

EPA 8015-D

---mg/L---

W

1,300 (D)

Detection Limit

10

D - Diesel

Sample ID Organic Lead

(LUFT) ---mg/kg---

S1

ND

S2

ND

Detection Limit

.5

EPA 602 - see attached sheets

David Mikesell

Chemist

Cut B. Vancin

Vice President, Analytical Srv.

verl11.rep



Addendum Report, EPA 602 Page 2 of 2

2860 WALNUT AVENUE LONG BEACH, CALIFORNIA 90806 (213) 595-9324 FAX (213) 595-6709

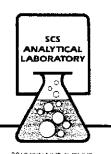
Sample I.D.: W

Date Received: 3/16/90
Date Analyzed: 3/24/90
Matrix: Water

Project #: 389079 File #: verl11.rep

Compound	Result ug/L	D.L. (ppb)
Benzene	3,180	0.7
Chlorobenzene	ND	1
Ethylbenzene	269	1
Toluene	1,060	1
Xylenes	1,130	1
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1

D.L. = Detection Limit ND = Not Detected



MEMO

To: Don McClenagan

From: Curtis B. Jenkins

Job No.: 0389079

2860 WALNUT AVENUE LONG BEACH, CALIFORNIA 90806 [213] 595-9324 FAX [213] 595-6709

March 29, 1990

Page 1 of 1

LABORATORY REPORT

Samples: Six (6) soil samples from Verl's - 7th Street, Oakland, CA received 3/21/90, analyzed 3/26/90. (RUSH)

Sample ID	EPA 8015-D
	mg/kg
C1	9,200 (D)
C2	13,000 (D)
C3	9,000 (D)
C4	8,100 (D)
C5	2,400 (D)
C6	3,900 (D)

Detection Limit

10

D - Diesel

David Mikesell
Chemist

Curtis/B. Jenkins

Vice President, Analytical Srv.



MEMO

TO: John Cummings

Curtis B. Jenkins From:

Page 1 of 2

April 26, 1990

Job No.: 0390011

LABORATORY REPORT

Samples: One (1) soil sample from Nesco, ANR Trucking, Oakland, received 4/23/90 analyzed 4/24/90. (RUSH

ANALYSIS)

s= Flashpoint Sample ID EPA 418.1 (376.2)(1010) -----mg/kg--SC 10 5,280 >140° F ND Detection Limit 10 . 5

EPA 8020 - see attached sheet

David Sincerbeaux Chemist

and extra

Curtis B. Jenkins Vice President Analytical Services

nescol.rep



Addendum Report, EPA 8020 Page 2 of 2

2860 WALNUT AVENUE LONG BEACH, CALIFORNIA 90806 (213) 595-9324 FAX (213) 595-6709

Sample I.D.: SC 10

Date Received: 4/23/90 Date Analyzed: 4/24/90

Matrix: Soil

Project #: 390011 File #: nescol.rep

Compound	Result D.	
	ug/kg	(ppb)
Benzene	ND	30
Chlorobenzene	ND	30
Ethylbenzene	42	30
Toluene	ND	30
Xylenes	80	30
1,2-Dichlorobenzene	ND	30
1,3-Dichlorobenzene	ND	30
1,4-Dichlorobenzene	ND	30

D.L. = Detection Limit
ND = Not Detected



SCS Engineers 6761 Sierra Court, #D Client Project ID:

Sampled:

4/20/90

Dublin, CA 94568

Sample Descript: Soil

Received:

4/20/90

Attention: Don McClenagan

Analysis Method: See below Lab Number: 42962

Reported:

4/25/90

STATIC ACUTE HAZARDOUS WASTE BIOASSAY

Static X	Species:	Pimephales Promelas	Organisms/Tank:	10
Cont. Flow	Common Name:	Fathead Minnow	Replicates:	2
	Mean length:	50 mm	Organisms/Conc.:	20
	Mean weight:	0.76 g	Tank Depth:	13 cm
Screening	Supplier:	Sticklebacks Unlimited	Tank Volume:	10 L
Definitive X	Acclimation Temp.:	17 degrees C		

	_	Alkalinity, mg/L	Hardness, mg/L
Diff. of any had a second	Control [70.2	183.6
Dilution Water: Synthetic Freshwater, Soft	1000 ppm	60.2	142.8
	320 ppm		
	100 ppm [

	Initial	24 Hr	48 Hr	72 Hr	96 Hr
DATE	4/20/90	4/21/90	4/22/90	4/23/90	4/24/90

	DO	C	рH	DO	C	рН	# M	DO	С	рΗ	# M	DO	С	рН	# M	DO	Ĉ	На	# M
	mg/L	Temp	Units	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead	mg/L	Temp		
Control	9.1	15	7.6	9.2	15	7.6	0	9.3	15	7.6	0	9.4	15	7.6	0	9.8	15	7.2	0
100 ppm	10.0	15	7.8	10.0	15	7.7	0	10.1	15	7.7	0	10.1	16	7.7	0	10.0	15	7.3	0
180 ppm	10.2	15	7.7	10.1	15	7.7	0	10.1	15	7.7	o	10.1	15	7.7	0	10.3	15	7.4	0
320 ppm	10.1	15	7.9	10.0	15	7.7	0	9.8	15	7.6	0	9.9	15	7.6	0	9.7	15	7.3	0
560 ppm	10.3	15	7.7	10.4	14	7.7	0	10.3	15	7.7	0	10.3	15	7.7	0	10.6	14	7.4	0
1000 ppm	10.3	14	7.7	10.4	14	7.7	0	10.3	14	7.7	0	10.3	14	7.7	0	10.1	14	7.3	0

	Total Dead
	0
	0
	0
i	0
	0
	0

LC-50: >1000 ppm	LC-50 Calculation Method: Non-linear interpolation
Remarks:	
Analyst: M. Trujillo Method Referen	ce: Static Acute Bioassay Procedures for Hazardous Waste Samples



SCS Engineers 6761 Sierra Court, #D

Client Project ID:

Sampled:

4/20/90

Dublin, CA 94568

Sample Descript: Soil

Received:

4/20/90

Attention: Don McClenagan

Analysis Method: See below Lab Number: 42962

Reported:

4/25/90

STATIC ACUTE HAZARDOUS WASTE BIOASSAY

Static	X
Cont. Flow	

Species:

Pimephales Promelas Fathead Minnow

Organisms/Tank: Replicates: 10 2

Common Name: Mean length:

50 mm

Organisms/Conc.: Tank Depth: 20 13 cm

Screening Definitive

Mean weight: Supplier: Acclimation Temp.:

0.76 g Sticklebacks Unlimited degrees C 17

Tank Volume:

10 L

Dilution Water: Synthetic Freshwater, Soft

Control 1000 ppm 320 ppm

100 ppm

Alkalinity, mg/L Hardness, mg/L 70.2 183.6 60.2 142.8

	Initial	24 Hr	48 Hr	72 Hr	96 Hr
DATE	4/20/90	4/21/90	4/22/90	4/23/90	4/24/90

	DO	С	рН	DO	С	рН	# M	DO	С	рΗ	# M	DO	С	рН	# M	DO	C	рН	# M
	mg/L	Temp	Units	mg/L	Temp	Units	Dead												
Control	9.1	15	7.6	9.2	15	7.6	1	9.3		7.6	0	9.4	15	7.6	0	9.8	15	7.2	0
100 ppm	10.1	15	7.8	10.0	15	7.6	0	10.1	16	7.6	0	10.1	16	7.6	0	9.7	15	7.2	0
180 ppm	10.2	15	7.8	10.1	15	7.7	0	10.1	15	7.7	0	10.1	15	7.7	0	10.4	14	7.3	0
320 ppm	10.1	15	7.9	10.3	15	7.7	0	10.1	16	7.6	0	10.1	16	7.6	0	10.0	15	7.3	. 0
560 ppm	10.2	15	7.8	9.3	15	7.5	0	9.4	16	7.4	0	9.4	16	7.5	٥	9.9	15	7.1	0
1000 ppm	10.3	15	7.7	10.0	15	7.6	0	10.0	15	7.4	0	9.9	15	7.5	0	9.5	14	7.2	0

LC-50: > 1000 ppm

LC-50 Calculation Method: Non-linear interpolation

Remarks:

Analyst:

M. Trujillo

Method Reference: Static Acute Pioassay Procedures for Hazardous Waste Samples,

September 1987, California Department of Fish and Game WPCL

EQUOIA ANALYTICAL

Project Manager

Page 2 of 2

42962.SSS <2>

SCS Engineers 6761 Sierra Court, #D Dublin, CA 94568

Attention: Don McClenagan

Client Project ID:

Sample Descript: Soil Analysis Method: See below

Lab Number: 42962

Sampled:

4/20/90

Received: 4/20/90

Reported: 4/25/90

				ST	ATIO	CAC	UTE	Е НА	ZAR	DOU	JS W	/AST	ΈB	IOA:	SSAY	1				
Screening Supplier:									Pimephales Promelas Fathead Minnow 50 mm 0.76 g Sticklebacks Unlimited 17 degrees C						ganisn Re anism Tar Tank	10 2 20 13 10	cm			
Dilution Water: Synthetic Freshwater, Soft									,	Coi 1000 ; 320 ; 100 ;	pm	All	Alkalinity, mg/L 70.2 70.1				rdnes 183.2 180.2	g/L		
DATE		Initial 4/20		<u> </u>	24 H 4/21				48 H 4/22		7 -	<u> </u>	72 Hr 4/23/90				96 Hr 4/24/90			
	DO mg/L	C Temp	pH Units	DO mg/L	C Temp	-	#M Dead	DO mg/L	C Temp		# M Dead	DO mg/L	C Temp	•	# M Dead		C Temp	ı •	#M Dead	Total Dead
Control	9.1	15	7.6	9.2	15	7.6	0	9.3	15	7.6	0	9.4	15	7.6	0	9.8	15	7.2	0	0
100 ppm	10.0	15	7.8	10.4	15	7.7	0	9.8	15	7.6	0	9.7	16	7.6	0	9.7	15	7.2	0	0
180 ppm		15	7.7	9.4	_15	7.6	0	9.6	15	7.6	0	9.7	15	7.6	0	9.4	15	7.2	0	0
320 ppm		15	7.8	10.0	14	7.6	0	9.8	15	7.6	0	9.8	15	7.6	0	10.1	14	7.3	0	0
560 ppm			7.9	10.1	14	7.6	0	9.9	15	7.6	0	9.8	15	7.6	0	9.3	14	7.2	0	0
1000 ppm	10.2	15	7.7	10.4	15	7.7	0	8.7	15	7.4	0_	8.8	15	7.4	0	8.7	15	7.1	0	0
LC-50: >1000 ppm LC-50 Calculation Method: Non-linear interpolation																				
Remarks:	•																			
Analyst:	M. Tr	ujillo			Met	hod I	Refere	ence:	Static Sept	c Acu embe	te Bio er 198	assay 7, Ça	/ Prod	edur ia De	es for partm	Haza ent o	rdou f Fish	s Was	ste Sar Game	mples, WPCL

SCS Engineers

6761 Sierra Court, #D Dublin, CA 94568

Attention: Don McClenagan

Client Project ID:

Sample Descript: Soil

Analysis Method: See below

Lab Number: 42962

Sampled:

Reported:

4/20/90 4/20/90

Received:

4/25/90

STATIC ACUTE HAZARDOUS WASTE BIOASSAY

Static X	Species:	Pimephales Promelas	Organisms/Tank:	10
Cont. Flow	Common Name:	Fathead Minnow	Replicates:	2
	Mean length:	50 mm	Organisms/Conc.:	20
<u></u>	Mean weight:	0.76 g	Tank Depth:	13 cm
Screening	Supplier:	Sticklebacks Unlimited	Tank Volume:	10 L
Definitive X	Acclimation Temp.:	17 degrees C	•	

		Alkalinity, mg/L	Hardness, mg/L
	Control	70.2	183.6
Dilution Water: Synthetic Freshwater, Soft	1000 ppm	60.2	142.8
-	320 ppm [
	100 ppm [

	Initial	24 Hr	48 Hr	72 Hr	96 Hr
DATE	4/20/90	4/21/90	4/22/90	4/23/90	4/24/90

	DO	C	pН	DO	С	рΗ	# M	DO	С	рH	# M	DO	С	рΗ	# M	DO	C	pН	# M
	mg/L	Temp	Units	mg/L	Temp	Units	Dead	mg/L	Temp	បnits	Dead	mg/L	Temp	Units	Dead	mg/L	Temp	Units	Dead
Control	9.1	15	7.6	9.2	15	7.6	0	9.3	15	7.6	0	9.4	15	7.6	0	9.8	15	7.2	0
100 ppm	10.0	15	7.7	10.3	15	7.6	0	10.2	15	7.6	0	10.2	15	7.6	0	9.8	15	7.3	0
180 ppm	10.1	15	7.8	9.5	15	7.6	0	9.4	15	7.6	0	9.4	15	7.6	0	9.8	15	7.3	0
320 ppm	10.0	15	7.9	10.0	15	7.6	0	9.8	15	7.6	0	9.9	15	7.6	0	9.6	14	7.3	0
560 ppm	10.2	15	7.8	9.8	15	7.6	0	10.0	15	7.6	0	10.0	15	7.6	0	10.2	14	7.3	0
1000 ppm	10.3	16	7.7	10.2	16	7.6	0	10.1	15	7.6	0	10.0	15	7.6	0	7.9	15	7.1	0

Dead
0
0
0
0
0
0

Total

LC-50: >1000 ppm	LC-50 Calculation Method:	Non-linear interpolation
Remarks:		
Analyst: M. Trujillo	Method Reference: Static Acute Bioassay Proc September 1987, Californ	edures for Hazardous Waste Samples, ia Department of Fish and Game WPCL

SEQUOIA ANALYTICAL

Project Manager

Page 2 of 2-

42962.\$SS <4>

Markey Flower sign & retorn

WATER RESOURCES CONTROL BOARD

FORM 'A': SITE

UNDERGROUND STORAGE TANK PROGRAM FACILITY/SITE, INFORMATION and/or PERMIT APPLICATION



COMPLETE THIS FORM FOR EACH FACILITY/SITE

	MARK ONLY ONE ITEM 1 NEW PERMIT 2 INTERIM PERMIT	3 RENEWAL PERMIT A AMENDED PERMIT		5 CHANGE OF INFO		7 PERMANENTLY CLOSED SITE
I. F	FACILITY/SITE INFORMATION &	ADDRESS — (MUST	BE COI	MPLETED)		
	FACILITY/SITE NAME ANK FREIGHT SYSTEM /NC		CARE OF	OF ADDRESS INFORMA	ATION	
	ADDRESS 7+1 ST.			ST CROSS STREET	CORPO	O INDICATE PARTNERSHIP STATE-AGENCY IPORATION LOCAL-AGENCY FEDERAL-AGENCY VIDUAL COUNTY-AGENCY
	CITY NAME OAK LAND TYPE OF PUBLISHESS		STATE CA			SITE PHONE #, WITH AREA CODE 415 - 658 - 6300
	1 GAS STATION 3 FARM X 5 OTH	THOST EARLOS L		9816574	114	# of TANK's AT THIS SITE
J	EMERGENCY CONTACT PERSON (PRIM	MARY)	EMER	GENCY CONT	ACT PERSON	(SECONDARY)
	DAYS: NAME (LAST, FIRST) STEED, BERT	PHONE # WITH AREA CODE 415-658-6300	DE DAYS: N	NAME (LAST, FIRST)) 00N	303 - 320 - 3960
		PHONE # WITH AREA CODE 303 - 278 - 9900	DE NIGHTS:	S. NAME (LAST, FIRST TTER, ELD	ST) Dan	PHONE # WITH AREA CODE 303-431-5469
II.	PROPERTY OWNER INFORMATION					
	PORT OF PAKLANO		· · · · · · · · · · · · · · · · · · ·	OF ADDRESS INFORMA	<u>`</u>	
	MAILING OF STREET ADDRESS 66 JACK LONDON SO					STATE-AGENCY CY
	OAKLANS		STATE	ZIP COD		PHONE #, WITH AREA CODE
-111.	. TANK OWNER INFORMATION &	ADDRESS — (MUS'	T BE CO			
	DAIGARY INVESTMENTS	,		FADDRESS INFORMA	PRESIDEN	UT
	PO BOX 7240		127 c	Box to indicate CORPORATION INDIVIDUAL	PARTNERSHIP LOCAL-AGENCY COUNTY-AGEN	STATE-AGENCY CY FEDERAL-AGENCY NCY
	DENUER.		STATE	1 712 000	207	PHONE #, WITH AREA CODE 30.3 , 320 - 3960
IV.	LEGAL NOTIFICATION AND BIL	LING ADDRESS	-			
	CHECK ONE (1) BOX INDICATING WHICH ABOVE					t. 🗶 II. 🗶 III.
	THIS FORM HAS BEEN COMPLETED UN		IRY, AND TO	O THE BEST OF	MY KNOWLED	GE, IS TRUE AND CORRECT.
	APPLICANT'S NAME (PRINTED & SIGNA)				DATE 7	7/24/90
ļ	LOCAL AGENCY USE ONLY					
	COUNTY # JURISDICTION #	AGENCY#		FACILITY ID #	#	# of TANKS at SITE
	CURRENT LOCAL AGENCY FACILITY ID #		APPROVED BY	/ NAME		PHONE # WITH AREA CODE
	PERMIT NUMBER PERMIT A	APPROVAL DATE		PERMIT EXPIRATI	ION DATE	
	LOCATION CODE CENSUS TRACT #	SUPERVISOR-DISTRICT COD	JE JC	BUSINESS PLAN F	FILED NO	DATE FILED
1	CHECK # PERMIT AMOUNT	SURCHARGE AMOUNT	FEE CO	ODE	RECEIPT #	BY:

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE TANK PERMIT FORM 'B' APPLICATION(S), UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.
FORM A (3-2-88)

WATER RESOURCES CONTROL BOARD

FORM 'A': SITE

UNDERGROUND STORAGE TANK PROGRAM FACILITY/SITE, INFORMATION and/or PERMIT APPLICATION



COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY 1 NEW PERMIT	3 RENEWAL PERMIT	5 CHANC	GE OF INFORMATION	7 PERMANENTLY CLOSED SITE			
ONE ITEM 2 INTERIM PERMIT	X 4 AMENDED PERMIT	6 ТЕМРС	ORARY SITE CLOSURE	_ ·- ·			
. FACILITY/SITE INFORMATION & AI	DDRESS — (MUST B	3E COMPLET	(ED)				
FACILITY/SITE NAME		CARE OF ADDRESS	<u> </u>				
ANK FREIGHT SYSTEM /NC.		TOPET COOSS!		The state topics			
2225 7th ST.	1	NEAREST CROSS ST	2 0	BOX TO INDICATE: DATE AGENCY CORPORATION LOCAL AGENCY INDIVIDUA. COUNTY-AGENCY TO STATE AGENCY FEDERAL AGENCY			
CITY NAME	1	STATE	ZIP CODE	INDIVIDUAL DISCOUNTY-AGENCY SITE PHONE #, WITH AREA CODE			
TYPE OF BUSINESS. 1 2 DISTRIBUTION 4 PROCE	72	CA EPA ID #	94607	415-658-6300			
1 GAS STATION 3 FARM \$\forall 5 OTHER	RESERVATION or -		1: /	# of TANK's			
EMERGENCY CONTACT PERSON (PRIMA	PROST DAINUS	CAD 9816.	57414 CONTACT PERSO				
DAYS: NAME (LAST, FIRST)	/ PHONE # WITH AREA CODE	DAYS. NAME (LAS		ON (SECONDARY) PHONE # WITH AREA CODE			
STEED BERT 4	15-658-6300	YEUTIER.	FLOON	303-320-3960			
NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE	NIGHTS: NAME (LA	AST, FIRST)	PHONE # WITH AREA CODE			
	5-278-9900	YEUTTER,		<u> 303- 437- 5469</u>			
I. PROPERTY OWNER INFORMATIO	N & ADDRESS — (MI	· · · · · · · · · · · · · · · · · · ·					
PORT OF GAKLAND	J	CARE OF ADDRESS	INFORMATION				
MAILING OF STREET ADDRESS		⊗ Box to indica	eate PARTNERSH	SHIP STATE-AGENCY			
66 JACK LONDON SOL	UARE	CORPORATI	TION D LOCAL-AGE	SENCY FEDERAL-AGENCY AGENCY			
CITY NAME		STATE CA	ZIP CODE	PHONE #, WITH AREA CODE			
OAKLANO			94604				
II. TANK OWNER INFORMATION & A	DDRESS — (MUSI F	CARE OF ADDRESS		· · · · · · · · · · · · · · · · · · ·			
DAIGARY NUESTMENTS MALING OF STREET ADDRESS	<u>[70</u>	D.W. RINGSBY PRESIDENT					
PO BOX 7240		→ Box to Indica	TION DILOCAL-AGE	GENCY			
DENUER	1	STATE	ZIP CODE 80207	PHONE #, WITH AREA CODE 20.3 20.1 - 20.1 0			
V. LEGAL NOTIFICATION AND BILL	INC ADDRESS	<u> </u>	1000 j	1202 020-2560			
CHECK ONE (1) BOX INDICATING WHICH ABOVE A		POTH LEGAL NOT	PIECATION AND BILLIN	IG: I. X II. X III.			
THIS FORM HAS BEEN COMPLETED UND							
APPLICANT'S NAME (PRINTED & SIGNATU		AND TO THE					
APPLICANT'S NAME (PRINTED & SIGNATU			DATE	alast lan			
LOCAL AGENCY USE ONLY	2			1/4/10			
·		5400					
COUNTY # JURISDICTION #	AGENCY #	PAGIL	LITY ID#	# of TANKS at SITE			
CURRENT LOCAL AGENCY FACILITY ID #	APPI	PROVED BY NAME		PHONE # WITH AREA CODE			
	<u> </u>						
PERMIT NUMBER PERMIT API	PROVAL DATE	PERMIT	EXPIRATION DATE				
LOCATION CODE CENSUS TRACT *	SUPERVISOR-DISTRICT CODE	BUSINES	SS PLAN FILED	DATE FILED			
CHECK # PERMIT AMOUNT	SURCHARGE AMOUNT	FEE CODE	YES NO) <u> </u>			
UNEON *	SUNUMENTAL CONTROL	FEE OOD	Never :	0 1:			

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE TANK PERMIT FORM 'B' APPLICATION(S), UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY. FORM A (3-2-88)

WATER RESOURCES CONTROL BOARD

FORM 'A': SITE

UNDERGROUND STORAGE TANK PROGRAM FACILITY/SITE, INFORMATION and/or PERMIT APPLICATION



COMPLETE THIS FORM FOR EACH FACILITY/SITE

	MARK ONLY ONE ITEM	1 NEW PERMIT 2 INTERIM PERMIT	3 RENEWAL PERMIT 4 AMENDED PERMIT	_	==	NGE OF INFORMATIO	<u> </u>	7 PERMANENTLY	CLOSED SITE	
l. F	FACILITY/SITE	E INFORMATION & A	ADDRESS — (MUS	T BE CC)MPLE	TED)				
	FACILITY/SITE NAME	IGHT SYSTEM INC		CARE	OF ADDRES	SS INFORMATION		- , , ,		
	ADDRESS 7+	+h 57		NEARE	EST CROSS !	STREET	Box to Indicate CORPORATION INDIVIDUAL	PARTNERSH P LOCAL-AGENCY COUNTY-AGENCY	STATE-AGENCY FEDERAL-AGENCY	
	OBKLAND				CA	ZIP CODE 94607		EPHONE *, WITH AR		
	TYPE OF BUSINESS. 1 GAS STATION	2 DISTRIBUTOR 4 PRO 3 FARM X 5 OTH	OCESSOR Box if INDIAN RESERVATION or TRUST LANDS	1-1-1-1	D 9816	057414		# of TANK's AT THIS SIT	E 8	
J	-	CONTACT PERSON (PRIM		_	RGENCY	Y CONTACT PE	ERSON (SEC	CONDARY)		
	DAYS: NAME (LAST, F	BERT	PHONE # WITH AREA CO 415 -658-6300	Yeu	NAME (LAS	, ELDON	30	PHONE # WI 13-320-39	TH AREA CODE	
	NIGHTS: NAME (LAST	ST, FIRST) BORAH 30	phone # with area co 03 -278 - 9900	1.7	IS. NAME(I	(LAST, FIRST) , ELDON	30		TH AREA CODE	
II.	PROPERTY O	OWNER INFORMATIO	ON & ADDRESS —	(MUST	BE CO	MPLETED)				
	NAME	F OAKLANO	`		SS INFORMATION					
	MAILING OF STREET AC	MAILING OF STREET ADDRESS 66 JACK LONCON SOURCE				ATION D COU	TNERSHIP CAL-AGENCY UNTY-AGENCY	STATE-AGE	NCY BENCY	
	CITY NAME ORKLAN	<i>∪</i>		STATE		21P CODE 94604	PHC	ONE #, WITH AREA CO	DDE	
-HL,	. TANK OWNE	ER INFORMATION &	ADDRESS — (MU!	ST BE C	OMPLE	ETED)		 .		
	DAIGARY		170	D. (1)	D.W. RINGSBY PRESIDENT					
		ADDRESS 7240				ATION LOCA	TNERSHIP CAL-AGENCY JNTY-AGENCY	STATE-AGE	GENCY	
	DENUER.			STATE		21P CODE 80207	۔ ا	ONE #. WITH AREA CO 3 , 320 - 39 (DDE	
IV,	LEGAL NOTI	IFICATION AND BILL	LING ADDRESS							
}	CHECK ONE (1) BO	OX INDICATING WHICH ABOVE	ADDRESS SHOULD BE USEF	D FOR BOTH	LEGAL NO	TIFICATION AND F	BILLING: I.	X 11. X	erc.	
	THIS FORM H	HAS BEEN COMPLETED UN	NDER PENALTY OF PERJ	URY, AND	TO THE E	BEST OF MY KN	VOWLEDGE, I	IS TRUE AND CO	DRRECT.	
	APPLI	LICANT'S NAME (PRINTED & SIGNAT					DATE 7/29	1/90]	
1	LOCAL AGEN	7							1	
1	COUNTY #	JURISDICTION #	AGENCY#		FAC	LITY ID#		# of TANKS at	SITE	
	CURRENT LOCAL AG	BENCY FACILITY ID #		APPROVED 6	BY NAME		Pi	HONE # WITH AREA	CODE	
	PERMIT NUMBER	PERMIT A	APPROVAL DATE		PERMIT	T EXPIRATION DATE	'E	· · · · · · · · · · · · · · · · · · ·		
	LOCATION CODE	CENSUS TRACT#	SUPERVISOR-DISTRICT CO	ODE BUSINESS PLAN FILED DATE FILED YES NO						
	CHECK #	PERMIT AMOUNT	SURCHARGE AMOUNT	FEE (CODE	RECEN	IPT #	BY:		

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE TANK PERMIT FORM 'B' APPLICATION(S), UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

WATER RESOURCES CONTROL BOARD

FORM 'B':

UNDERGROUND STORAGE TANK PROGRAM TANK PERMIT APPLICATION INFORMATION



MARK ONLY 1 NEW PERMIT 3 RENEWAL PERMIT 5 CHANGE OF INFORMA ONE ITEM 2 INTERIM PERMIT 4 AMENDED PERMIT 6 TEMPORARY TANK CL				7 PERMANENTLY CLOSED TANK 8 TANK REMOVED						
	FACILITY/SITE NAM	AE WHERE TANK IS INSTAL	LED: ANRES	ORKLAN	1D	F/	ARM TAN	(- YE\$ [NO	4
I. 1	TANK DESCRIP	TION COMPLETE ALL	. ITEMS - IF UNKNOWN —							
•	A. OWNERS TANK ID	# /		B. MAN	UFACTURED BY:	Unkyo	WN		- `	
ĺ	C. YEAR INSTALLED	1974		D. TAN	CAPACITY IN GALL					
ii.	TANK CONTER	NTS IF (A.1), IS MARI	KED, COMPLETE ITEM C. I	F (A.1), IS NO	OT MARKED, COMP	LETE ITEM D.				
		PRODUCT X 4 OIL	95 UNKNOWN	1 PRODUCT 2 WASTE	C. 1 UNLEA 4 GASAH 7 METHA	10L 5 .	EADED JET FUEL OTHER (DE	6	DIESEL AVIATION TEM D, BEL	
L		· · · · · · · · · · · · · · · · · · ·				C.A.	J. H.			
r	XIII. TANK CO	NSTRUCTION MAI	RK ONE ITEM ONLY IN BO	X A, B, C, & [<u> </u>					
	A. TYPE OF	1 DOUBLE WALLED	3 SINGLE WALLED WITH EXTERIOR L	INER	95 UNKNOWN					
ŀ	SYSTEM		4 SECONDARY CONTAINMENT		99 OTHER					
	B. TANK MATERIAL	1 STEEL/IRON 5 CONCRETE 9 BRONZE	6 POLYVINYL CHLORIDE 7	FIBERGLASS ALUMINUM 5 UNKNOWN		/FIBERGLASS REINFO	PRCED PLASTIC		· · · ·	
	C. INTERIOR LINING	1 RUBBER LINED 5 GLASS LINING IS LINING MATERIAL COMPATIBLE V	6 UNLINED	EPOXY LINING	4 PHENOLIC LININ 95 UNKNOWN 99 OTHER	NG				
	D. CORROSION PROTECTION	1 POLYETHLENE WRAP 5 CATHODIC PROTECTION	· :	VINYL WRAP 5 UNKNOWN	4 FIBERGLASS RE	INFORCED PLASTIC				
IV.	PIPING INFO	RMATION CIRCLE A	IF ABOVE GROUND, U IF U	INDERGROUP	ID, BOTH IF APPLIC	ABLE				
	A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A U 3 GR		99 OTHER				
	B. CONSTRUCTION	A U 1 STEEL/IRON	A U 2 DOUBLE WALLED A U 2 STAINLESS STEEL	A U 3 LIN	ED TRENCH A U LYVINYL CHLORIDE (PVC	95 UNKNOWN		U 99 OTH	IEH	
	C. MATERIAL	A U 5 ALUMINUM A U 9 GALVANIZED STEEL	A U 6 CONCRETE		EL CLAD W/FRP	A U 8 100	1		IBLE FAP	_
V.	LEAK DETECT	TON SYSTEM CIRCI	LE P FOR PRIMARY, OR S	FOR SECON	DARY, A PRIMARY LE	AK DETECTIO	N SYSTE	M MUST E	BE CIRCL	.ED.
	P 6 1 VISUAL CHECK		CONCILIATION P S 3 VADO					ATER MON	ITORING W	VELLS
l		ESTING(P) \$ 7 PRESSURE TES			\$ 95 UNKNOWN	P 5 9	9 OTHER _			
۷I.	INFORMATIO 1. ESTIMATED DATE I	N ON TANK PERMA	2. ESTIMATED QUAN			3. WAS TAN	K EILLED WIT	ГН		
	I. EGITIVIATED DATE L	E-101 GOLD (MO) TR)	SUBSTANCE REMA		GALLONS	INERT MA			ES	NO
	THIS FORM HA	AS BEEN COMPLETED UN	IDER PENALTY OF PERJU	JRY, AND T		Y KNOWLEDG	E, IS TRU	E AND C	ORRECT	Т.
		CANT'S NAME (PRINTED & SIGNAT				DATE			7	
LOCAL AGENCY USE ONLY									⊿	
	COUNTY #	JURISDICTION #	AGENCY#		FACILITY ID #			TANK ID	#	
	CURRENT LOCAL AGENCY FACILITY ID # APPROVED BY NAME PHONE # WIT							ITH AREA	CODE	
	PERMIT NUMBER PERMIT APPROVAL DATE PERMIT EXPIRATION DATE									
	CHECK#	PERMIT AMOUNT	SURCHARGE AMT.	FEE C	ODE R	ECEIPT #		BY:		

WATER RESOURCES CONTROL BOARD

FORM 'B':

UNDERGROUND STORAGE TANK PROGRAM TANK PERMIT APPLICATION INFORMATION

Г							
	MARK ONLY	1 NEW PERMIT	3 RENEWAL PERMIT		HANGE OF INFORMATION		RMANENTLY CLOSED TANK
-	ONE ITEM	2 INTERIM PERMIT	4 AMENDED PERMIT		EMPORARY TANK CLOSUI	IRE B TAN	IK REMOVED
Į	FACILITY/SITE NAME	E WHERE TANK IS INSTAL	LLED: ANRFREIGHT	- CYSTEM	DAKLANK	A FARM TAN	K-YES NO 2
7	TANK DESCRIPT	FION COMPLETE ALI	L ITEMS - IF UNKNOWN — SC) SPECIFY			
-	A. OWNERS TANK ID #			B. MANUFAC	CTURED BY:	UNKNOWN	
l	C. YEAR INSTALLED	1974		D. TANK CAF	PACITY IN GALLONS:		<u> </u>
. ,	TANK CONTENT	TS IF (A.1), IS MAR	KED, COMPLETE ITEM C. IF	(A.1), IS NOT M	IARKED, COMPLETE	£ ITEM D.	
1	A. 1 MOTOR VEHIC	CLE FUEL 2 PETROLEUI	JM В.		C. 1 UNLEADED		3 DIESEL
	3 CHEMICAL PRO		_	1 PRODUCT	4 GASAHOL	5 JET FUEL	6 AVIATION GAS
-	5 HAZARDOUS	1/23		2 WASTE	7 METHANOL	99 OTHER (DE	SCRIBE IN ITEM D, BELOW)
	P .	HICLE FUEL, ENTER NAME (STANCE STORED & C.A.S. #	OF Diese	L		C.A.S. #:	l .
_	xIII. TANK CON	ISTRUCTION MA	RK ONE ITEM ONLY IN BOX				
ſ		1 DOUBLE WALLED	3 SINGLE WALLED WITH EXTERIOR LINE		95 UNKNOWN		
	I ALTIFE OF	· · · · · · · · · · · · · · · · · · ·	4 SECONDARY CONTAINMENT	" <u> </u>	99 OTHER		<u> </u>
t			2 STAINLESS STEEL 3 FI	IBERGLASS	☐ 4 STEEL CLAD W/FIBEF	RGLASS REINFORCED PLASTIC	n.
	B. TANK	5 CONCRETE		LUMINUM [8 100% METHANOL COM		Ĭ
	MATERIAL	9 BRONZE	10 GALVANIZED STEEL 95 L	UNKNOWN	99 OTHER		-
ſ		1 RUBBER LINED	2 ALKYD LINING 3 EF	POXY LINING	4 PHENOLIC LINING		
1	C. INTERIOR LINING	5 GLASS LINING	6 UNLINED	Ē	95 UNKNOWN	I	
		IS LINING MATERIAL COMPATIBLE W	WITH 100% METHANOL? YES	NO [99 OTHER		<u> </u>
l	D. CO	1 POLYETHLENE WRAP	2 TAR OR ASPHALT 3 VI	INYL WRAP	4 FIBERGLASS REINFORG	ICED PLASTIC	
l	PROTECTION	5 CATHODIC PROTECTION	91 NONE 95 L	UNKNOWN _	99 OTHER		
ı.	PIPING INFORM	MATION CIRCLE A	IF ABOVE GROUND, U IF UNI	DERGROUND, B	OTH IF APPLICABL	Æ	
ſ	A. SYSTEM TYPE	A U 1 SUCTION		A U 3 GRAVITY	···		
ŀ	B. CONSTRUCTION	1 SINGLE WALLED		A U 3 LINED TRI	· · · · · · · · · · · · · · · · · · ·		U 99 OTHER
1	C. MATERIAL	A U 1 STEEL/IRON A U 5 ALUMINUM	A U 2 STAINLESS STEEL A A U 6 CONCRETE	A U 3 POLYVINY A U 7 STEEL CL		A U 4 FIBERGLASS P A U 8 100% METHAN	
١	L	A (U) 9 GALVANIZED STEEL	_ A U 95 UNKNOWN /	A U 99 OTHER			
	LEAK DETECTION	ON SYSTEM CIRC	ELE P FOR PRIMARY, OR S FO	OR SECONDARY	, A PRIMARY LEAK	DETECTION SYSTE	M MUST BE CIRCLED.
ſ	P S VISUAL CHECK	LCP .	CONCILIATION P S 3 VADOSE	WELLS P \$ 4	ELECTRONIC MONITOR		VATER MONITORING WELLS
	P S 6 PRECISION TEST	TING S 7 PRESSURE TEST			95 UNKNOWN	P \$ 99 OTHER _	
I.			ANENTLY CLOSED II		-		
	1. ESTIMATED DATE LAS	ST USED (MO/YR)	2. ESTIMATED QUANTIT SUBSTANCE REMAIN		į.	3. WAS TANK FILLED WIT INERT MATERIAL?	TH YES NO
L	TUIC FORM HAS	COSCH COMPLETED III	COCO DENALTY OF PER III	W AND TO TH	GALLONS HE REST OF MY KNI	IOMI EDGE IS TRI	
		S BEEN COMPLETED UN ANT'S NAME (PRINTED & SIGNAT	NDER PENALTY OF PERJUR TURE)	Y, AND TO TH	E REST OF MI VIEW	DATE	E AND CORNECT.
	·	II o ir imo (· ····	une,		,	1	
ļ	LOCAL AGENCY	Y USE ONLY					
1	COUNTY#	JURISDICTION #	AGENCY#	F/	ACILITY ID#		TANK ID#
1				 			
1							<u> </u>
	CURRENT LOCAL AGENC	ICY FACILITY ID #	AF	PPROVED BY NAM	IE .	PHONE # ¥	WITH AREA CODE
1	200447 MI MADED		PERMIT APPROVAL DA	DET	RMIT EXPIRATION DATE	-	
1	PERMIT NUMBER		PERMIT APPROVAL DA	IE PER	MIT EXPIRATION DATE	= ,	
1	CHECK# P	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEI	PT #	BY:
	4					,	

WATER RESOURCES CONTROL BOARD

FÖRM 'B':

UNDERGROUND STORAGE TANK PROGRAM TANK PERMIT APPLICATION INFORMATION



•									
	MARK ONLY ONE ITEM	1 NEW PERMIT 2 INTERIM PERMIT	3 RENEWAL PERMIT 4 AMENDED PERMIT	5 CHANGE OF INI		7 PERMANENTLY CLOSED TANK 8 TANK REMOVED			
	FACILITY/SITE NA	ME WHERE TANK IS INSTA	LLED: AHR FS	O4 KLAND	FARN	TANK-YES NO			
. 1	TANK DESCRI	PTION COMPLETE AL	L ITEMS - IF UNKNOWN — SO	SPECIFY					
	A. OWNERS TANK I	D# 8	······································	B. MANUFACTURED BY	UNKHOW	'M			
į	C. YEAR INSTALLE	D 1974		D. TANK CAPACITY IN C					
۱	TANK CONTE	NTS IF (A.1), IS MAR	KED, COMPLETE ITEM C. IF (A.1), IS NOT MARKED, CO	OMPLETE ITEM D.	- "			
	A. 1 MOTOR VE	PRODUCT X 4 OIL		PRODUCT 4 6	INLEADED 2 LEAD	FUEL 6 AVIATION GAS			
ł		/EHICLE FUEL, ENTER NAME	OF 11	WASTE 7 N		HER (DESCRIBE IN ITEM D, BELOW)			
Į		BSTANCE STORED & C.A.S. #	Uses (Dis	C.A.S. #:	<u> </u>			
ı	xIII. TANK CO	ONSTRUCTION MA	ARK ONE ITEM ONLY IN BOX	A, B, C, & D		į.			
	A. TYPE OF SYSTEM	1 DOUBLE WALLED 2 SINGLE WALLED	3 SINGLE WALLED WITH EXTERIOR LINE 4 SECONDARY CONTAINMENT	R 95 UNKNOT	WN				
	B. TANK C. MATERIAL	1 STEEL/IRON 5 CONCRETE 9 BRONZE	6 POLYVINYL CHLORIDE 7 AL	=	AD W/FIBERGLASS REINFORCEE FHANOL COMPATIBLE FRP	D PLASTIC			
	C. INTERIOR CLINING	1 RUBBER LINED 5 GLASS LINING IS LINING MATERIAL COMPATIBLE	6 UNLINED	OXY LINING 4 PHENOLI 95 UNKNOW NO 99 OTHER.					
	D. CORROSION PROTECTION	1 POLYETHLENE WRAF 5 CATHODIC PROTECTION	j	N'L WRAP 4 FIBERGLA	SS REINFORCED PLASTIC				
V.	PIPING INFO	RMATION CIRCLE A	IF ABOVE GROUND, U IF UND	ERGROUND, BOTH IF API	PLICABLE				
	A. SYSTEM TYPE	A U 1 SUCTION		 -	U 99 OTHER				
ŀ	B. CONSTRUCTION	A U 1 STEEL/IRON	A U 2 DOUBLE WALLED A A U 2 STAINLESS STEEL A		(PVC) A U 4 FIBERGI	A U 99 OTHER · · · · · · · · · · · · · · · · · · ·			
	C. MATERIAL	A U 5 ALUMINUM A U 9 GALVANIZED STEE	A U 6 CONCRETE A	U 7 STEEL CLAD W/FRP U 99 OTHER	•	ETHANOL COMPATIBLE FRP			
•	LEAK DETECT	TION SYSTEM CIRC	LE P FOR PRIMARY, OR S FO	R SECONDARY, A PRIMAR	Y LEAK DETECTION S	YSTEM MUST BE CIRCLED.			
ſ	1 VISUAL CHEC		CONCILIATION P S 3 VADOSE						
L		ESTING() S 7 PRESSURE TES		P S 95 UNKNOWN	P \$ 99 OT	HER			
•. [1. ESTIMATED DATE		ANENTLY CLOSED IN 2. ESTIMATED QUANTITY SUBSTANCE REMAINING	' OF	3. WAS TANK FILL INERT MATERIA				
_	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								
ı	LOCAL AGENCY USE ONLY								
1	COUNTY #	JURISDICTION #	AGENCY#	FACILITY ID	#	TANK ID #			
İ									
	CURRENT LOCAL AGI	ENCY FACILITY ID #	APP	ROVED BY NAME	PHOI	NE # WITH AREA CODE			
	PERMIT NUMBER		PERMIT APPROVAL DAT	TE PERMIT EXPIRAT	ION DATE				
1	CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #	BY:			

WATER RESOURCES CONTROL BOARD

FORM B:

UNDERGROUND STORAGE TANK PROGRAM TANK PERMIT APPLICATION INFORMATION



	MARK ONLY 1 NEW PERMIT 3 RENEWAL PERMIT 5 CHANGE OF INFORMAT NEW PERMIT 2 INTERIM PERMIT 4 AMENDED PERMIT 6 TEMPORARY TANK CLO				7 PERMANENTLY CLOSED TAN 8 TANK REMOVED					
	FACILITY/SITE NA	ME WHERE TANK IS INSTA	LLED: AHR ES	DAKHANO		FARM TANK - YES NO 4				
. 1	TANK DESCRI	IPTION COMPLETE AL	L ITEMS - IF UNKNOWN — S		· · · · · · · · · · · · · · · · · · ·					
	A. OWNERS TANK			B. MANUFACTUR	RED BY: 1/104	HOWM				
	C. YEAR INSTALLE			D. TANK CAPACI		3,000				
i.	TANK CONTE	NTS IF (A.1), IS MAI	IKED, COMPLETE ITEM C. IF	(A.1), IS NOT MARK						
	3 CHEMICAL 5 HAZARDO	EHICLE FUEL 2 PETROLE L PRODUCT X 4 OIL BUS B0 EMPTY	JM B.	G. [1 PRODUCT [2 WASTE [1 UNLEADED 4 GASAHOL 7 METHANOL	2 LEADED 3 DIESEL 5 JET FUEL 6 AVIATION G 99 OTHER (DESCRIBE IN ITEM D, BELOW				
ı		VEHICLE FUEL, ENTER NAME IBSTANCE STORED & C.A.S. #		0:		C.A.S. #:				
L	xIII. TANK CO	ONSTRUCTION MA	RK ONE ITEM ONLY IN BOX							
	A. TYPE OF SYSTEM	1 DOUBLE WALLED 2 SINGLE WALLED	3 SINGLE WALLED WITH EXTERIOR LI	€R 95	Unknown Other					
	B. TANK MATERIAL	1 STEEL/IRON 5 CONCRETE 9 BRONZE	6 POLYVINYL CHLORIDE 7	LUMINUM 8	STEEL CLAD W/FIBERGLASS REI 100% METHANOL COMPATIBLE F OTHER					
	C. INTERIOR LINING	† RUBBER LINED 5 GLASS LINING IS LINING MATERIAL COMPATIBLE	6 UNLINED	95	PHENOLIC LINING UNKNOWN OTHER					
	D. CORROSION PROTECTION	1 POLYETHLENE WRAP 5 CATHODIC PROTECTION		=	FIBERGLASS REINFORCED PLAST OTHER	ric				
٧	PIPING INFO	RMATION CIRCLE A	IF ABOVE GROUND, U IF UN	DERGROUND, BOTH	IF APPLICABLE					
ŀ	A SYSTEM TYPE	A U 1 SUCTION A (U)1 SINGLE WALLED		A U 3 GRAVITY	A U 99 OTHER					
	B. CONSTRUCTION C. MATERIAL	A U 1 STEEL/IRON A U 5 ALUMINUM A U 9 GALVANIZED STEE	A U 2 STAINLESS STEEL A U 6 CONCRETE	A U 3 LINED TRENCH A U 3 POLYVINYL CH A U 7 STEEL CLAD W A U 99 OTHER	LORIDE (PVC) A U 4	N A U 99 OTHER				
7. I	LEAK DETECT	TION SYSTEM CIRC	LE P FOR PRIMARY, OR S F	OR SECONDARY, A PI	RIMARY LEAK DETECT	ION SYSTEM MUST BE CIRCLED				
	P S 6 PRECISION TI	CK S 2 INVENTORY REI ESTING 8 7 PRESSURE TES	CONCILIATION P S 3 VADOSE	WELLS P S 4 ELEC P S 95 UNK		5 GROUND WATER MONITORING WELL 99 OTHER				
'I	INFORMATIO	N ON TANK PERMA	NENTLY CLOSED I	N PLACE						
ļ	1. ESTIMATED DATE	LAST USED (MO/YR)	2. ESTIMATED QUANTIT SUBSTANCE REMAIN	ING IN	INERT I	NK FILLED WITH 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									
L	OCAL AGENO	CY USE ONLY								
	COUNTY #	JURISDICTION #	AGENCY#	FACILI	TY ID #	TANK ID #				
-	CURRENT LOCAL AGE	ENCY FACILITY ID #	AP	PROVED BY NAME		PHONE # WITH AREA CODE				
t	PERMIT NUMBER		PERMIT APPROVAL DA	TE PERMIT E	KPIRATION DATE					
ŀ	CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #	BY:				

WATER RESOURCES CONTROL BOARD

FORM B:

UNDERGROUND STORAGE TANK PROGRAM TANK PERMIT APPLICATION INFORMATION



	MARK ONLY 1 NEW PERMIT 3 RENEWAL PERMIT 5 CHANGE OF INFORMATIC ONE ITEM 2 INTERIM PERMIT 4 AMENDED PERMIT 6 TEMPORARY TANK CLOS				PERMANENTLY CLOSED TANK TANK REMOVED				
	FACILITY/SITE NA	ME WHERE TANK IS INST	LLED: AMR ES	04 KLAND	FARM T	ANK-YES NO F			
.]	TANK DESCR	IPTION COMPLETE A	L ITEMS - IF UNKNOWN —						
	A. OWNERS TANK			B. MANUFACTURED BY	UNKHOWM				
	C. YEAR INSTALLE	D 1974		D. TANK CAPACITY IN G	-				
۱.	TANK CONTE	NTS IF (A.1), IS MA	RKED, COMPLETE ITEM C. I	F (A.1), IS NOT MARKED, CO		· <u></u> -			
	3 CHEMICAL 5 HAZARDO D. IF NOT MOTOR	EHICLE FUEL 2 PETROLE L PRODUCT X 4 OIL	B	C. 1 L	INLEADED 2 LEADED SASAHOL 5 JET FUEL METHANOL 99 OTHER	3 DIESEL 6 AVIATION GAS (DESCRIBE IN ITEM D. BELOW)			
L			UNEO	Ois_	C.A.S. #:	:			
ſ	XIII. IANK C		ARK ONE ITEM ONLY IN BO	K A, B, C, & D					
	A. TYPE OF SYSTEM	1 DOUBLE WALLED 2 SINGLE WALLED	3 SINGLE WALLED WITH EXTERIOR L 4 SECONDARY CONTAINMENT	INER 95 UNKNOW 99 OTHER	YN 				
	B. TANK MATERIAL	1 STEEL/IRON 5 CONCRETE 9 BRONZE	6 POLYVINYL CHLORIDE 7	=	AD W/FIBERGLASS REINFORCED PLA THANOL COMPATIBLE FRP	STIC			
	C. INTERIOR LINING	1 RUBBER LINED 5 GLASS LINING IS LINING MATERIAL COMPATIBLE	6 UNLINED	EPOXY LINING 4 PHENOLIC 95 UNKNOW NO 99 OTHER					
	D. CORROSION PROTECTION	1 POLYETHLENE WRAP 5 CATHODIC PROTECTION	Ť	VINYL WRAP 4 FIBERGLA UNKNOWN 99 OTHER_	SS REINFORCED PLASTIC				
V.	PIPING INFO	RMATION CIRCLE A	IF ABOVE GROUND, U IF U	NDERGROUND, BOTH IF APP	LICABLE				
ļ	A SYSTEM TYPE	A U 1 SUCTION	A (1)2 PRESSURE	A U 3 GRAVITY A	U 99 OTHER				
+	B. CONSTRUCTION	A U 1 STEEL/IRON	A U 2 DOUBLE WALLED			U 99 OTHER 3			
	C. MATERIAL	A U 5 ALUMINUM A U 9 GALVANIZED STEE	A U 2 STAINLESS STEEL A U 6 CONCRETE L A U 95 UNKNOWN	A U 7 STEEL CLAD W/FRP A U 99 OTHER		PIPE ANOL COMPATIBLE FRP			
- '. I	LEAK DETECT	TION SYSTEM CIRC	LE P FOR PRIMARY, OR S	OR SECONDARY A PRIMARY	Y I SAK DETECTION EVEN	TM MUST BE CIRCUED			
Γ	P S 1 VISUAL CHEC	_	CONCILIATION P S 3 VADOS	E WELLS P \$ 4 ELECTRONIC		WATER MONITORING WELLS			
_			ANENTLY CLOSED		, 🕹 as other				
	1. ESTIMATED DATE		2. ESTIMATED QUANT SUBSTANCE REMAI	TY OF	3. WAS TANK FILLED V	VITH 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								
L	OCAL AGENO	CY USE ONLY							
	COUNTY#	JURISDICTION #	AGENCY #	FACILITY ID		TANK ID #			
	CURRENT LOCAL AGI	ENCY FACILITY ID #	A	PPROVED BY NAME	PHONE #	WITH AREA CODE			
ŀ	PERMIT NUMBER		PERMIT APPROVAL D	ATE PERMIT EXPIRATI	ON DATE				
I	CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #	BY:			