# **VORELCO**



September 24, 1990

Mr. Paul M. Smith
Hazardous Materials Specialist
Alameda County Health Care Services
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621

Re: Broadway Volkswagen

Oakland, Ca

Dear Mr. Smith:

In reference to your letter of July 25, 1990, I have compiled the information that you have requested. I have contacted Ms. Susan Wickham of Environmental Science & engineering, Inc.(formerly Hunter Gregg) relative to your concerns with the groundwater flow, and have enclosed a copy of her response.

Relative to the tank data requested I have enclosed a copy of the tank closure report from Engineering-Science, Inc. dated January 1989.

I have also enclosed, per your request, a check in the amount of \$500 to replenish our deposit.

If you have any additional questions, or feel that additional information is required please contact the undersigned at (313)362-7296.

Sincerely,

Tom Moffatt

Construction Engineer

3 February 1989 Ref: NC050.05

Mr. Paul Hegwood Vorelco, Inc. P.O. Box 7050 Troy, MI 48007-7050

Subject:

Removal of Four Underground Storage Tanks at Broadway

Volkswagen, Oakland, Čalifornia

Dear Mr. Hegwood:

This report details the 15 and 23 August 1988 removal of four underground storage tanks located at Broadway Volkswagen, 2470 Broadway, Oakland, California (Vorelco property #4826).

Engineering-Science is pleased to provide technical assistance to Vorelco, Inc. If you have any questions regarding this submittal, please call.

Very truly yours,

Richard S. Makdisi, R.G.

Project Manager

RSM/dae/117-17.R1

cc: Mr. William Hischke, Vorelco

Mr. Mike Yang, Vorelco

Mr. Thomas Peacock, Alameda Co. Health Dept.

#### REMOVAL OF UNDERGROUND STORAGE TANKS

AT

BROADWAY VOLKSWAGEN OAKLAND, CALIFORNIA

Prepared for

VORELCO, INC. Troy, Michigan

February 1989

Prepared by

ENGINEERING-SCIENCE, INC. 600 Bancroft Way Berkeley, California 94710

# REMOVAL OF UNDERGROUND STORAGE TANKS AT BROADWAY VOLKSWAGEN OAKLAND, CALIFORNIA

PREPARED FOR

VORELCO, INC., TROY, MICHIGAN

PREPARED BY

# ENGINEERING-SCIENCE

DESIGN • RESEARCH • PLANNING 600 BANCROFT WAY, BERKELEY, CALIFORNIA 94710 • 415/548-7970 OFFICES IN PRINCIPAL CITIES

**JANUARY 1989** 

#### TABLE OF CONTENTS

	<u>Page</u>
INTRODUCTION	1
TANK REMOVAL	1
SAMPLING PROTOCOL	8
ANALYTICAL RESULTS	9
CONCLUSIONS	13
RECOMMENDATIONS	13

APPENDIX A - PHOTOGRAPHS

APPENDIX B - ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY RECORDS

APPENDIX C - MANIFESTS

#### LIST OF FIGURES

<u>Figure</u>		<u>Page</u>
1	Site Location Map	2
2	Tank Location Map	3
3	Tank A Excavation and Sample Locations	5
4	Tank B Excavation and Sample Locations	6
5	Tanks C and D Excavation and Sample Locations	7

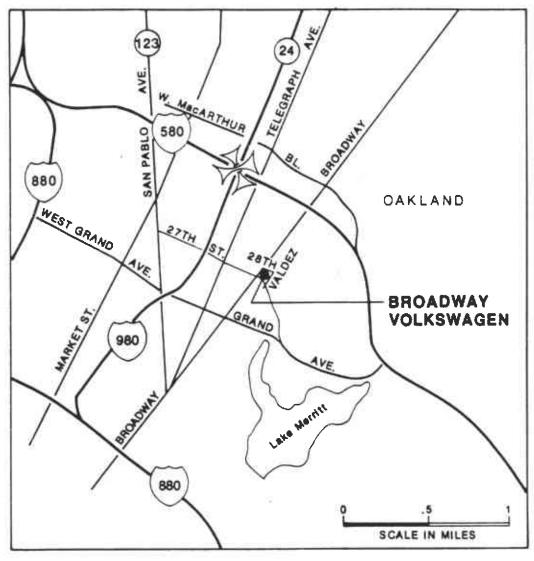
#### REMOVAL OF UNDERGROUND STORAGE TANKS AT BROADWAY VOLKSWAGEN OAKLAND, CALIFORNIA

#### INTRODUCTION

This report details the removal of four underground storage tanks (USTs) and the subsequent soil sampling and excavation at Broadway Volkswagen, 2470 Broadway, Oakland, California (Vorelco property #4826). These tanks, which were removed on 15 August and 23 August 1988, by SEMCO, Inc., consisted of a 1,000-gallon waste oil tank (Tank A), a 300gallon waste oil tank (Tank B), a 550-gallon unleaded gasoline tank (Tank C), and a 1,500-gallon unknown tank, (Tank D). Engineering-Science, Inc. (ES) was on site to observe the tank removals and collect soil samples. Mr. Thomas Peacock of the Alameda County Health Department and Ms. Christine Myers of the Oakland Fire Department were also on site during the tank removals and the soil sampling those days. The site location is shown on Figure 1, and the tank locations are on Figure 2. Photographs of the work are contained in Appendix A. Appendix B contains the laboratory report and Chain-of-Custody records, and the shipping manifests are in Appendix C.

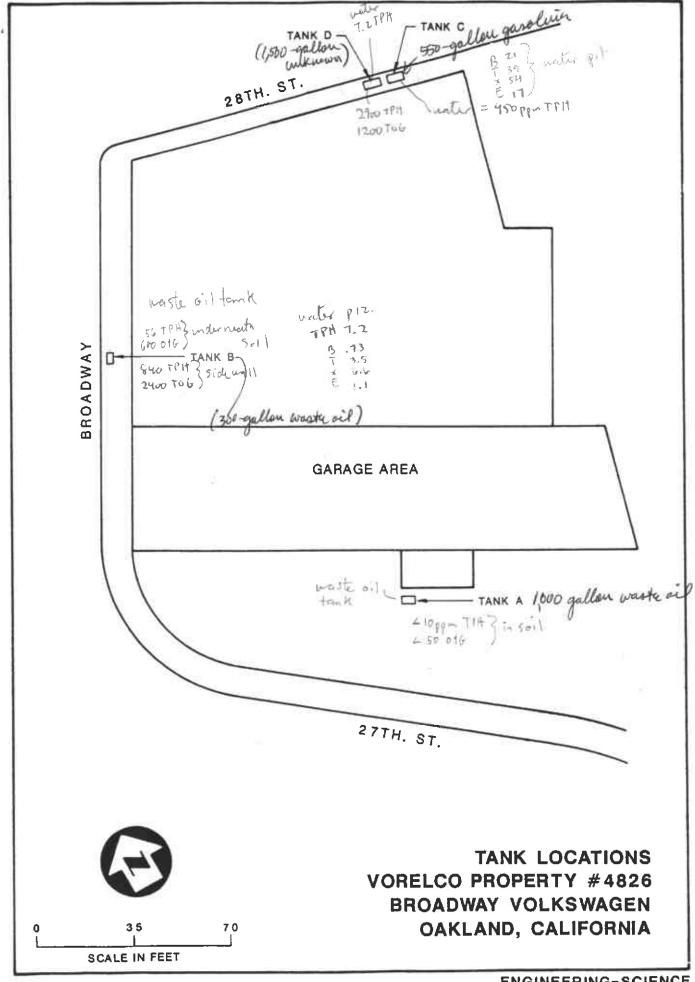
#### TANK REMOVAL

Tanks A, B, and C were removed on 15 August 1988. Tank D, located next to Tank C, had been discovered during the course of this work and was uncovered on 22 August and removed on 23 August 1988. All contaminated soil removed from the excavations was stockpiled on sheets of visqueen in the back lot of the dealership and covered.





LOCATION MAP BROADWAY VOLKSWAGEN OAKLAND, CALIFORNIA



#### Tank A

Before removal, Tank A was steam cleaned and triple rinsed, after which dry ice  $({\rm CO_2})$  was added to displace any combustible vapors which might be left. Product and rinsate was taken to Demenno Kerdoon by Allied Petroleum in Compton, California. Once the lower explosive limit (LEL) was below 20 percent, the tank was removed. The bottom of the tank was 6 feet below grade. The tank appeared intact with no holes or signs of leakage in the excavation. Figure 3 shows the excavation and the position of the tank. Photos are contained in Appendix A.

#### Tank B

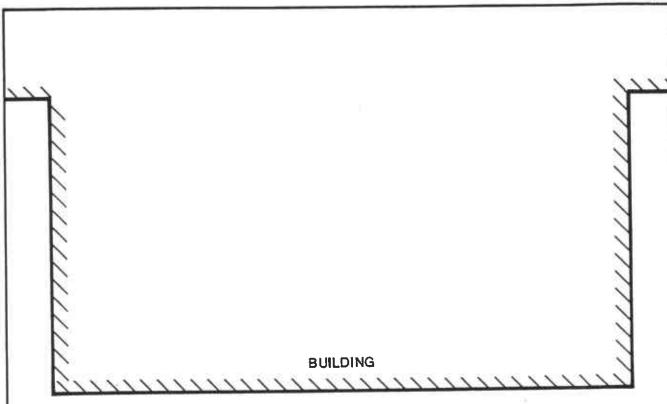
Tank B was pumped and cleaned as above (Tank A) except that a large hole had to be cut in the top of the tank in order to remove a deposit of oily sludge that had collected in the bottom. Before removal, numerous corrosion holes were noted in the top of the tank and the associated waste oil drain from the building. Once the LEL was checked and found to be acceptable, the tank was removed from the excavation. Larger holes were noted in the sides of the tank, with a few approximately 2 inches in diameter. The bottom of the tank appeared intact. A moderate hydrogen sulfide odor was observed during the removal. The bottom of the tank was 7 feet below grade. The tank and excavation are shown on Figure 4.

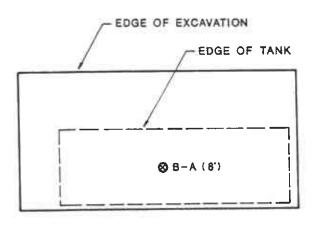
#### Tank C

After being cleaned, rinsed, and iced, the LEL was checked and Tank C was removed. Many pinholes were noted along the sides and ends of the tank. A small amount of rinsate began to leak from the east end of the tank while it was being raised from the excavation, so absorbant was added and that end was elevated. The bottom of this tank was approximately 7 feet 4 inches below grade. The tank and excavation are shown on Figure 5.

#### Tank D

After being uncovered, Tank D was found to be a 1,500-gallon steel tank. After being cleaned, rinsed, and iced, the LEL was checked and the





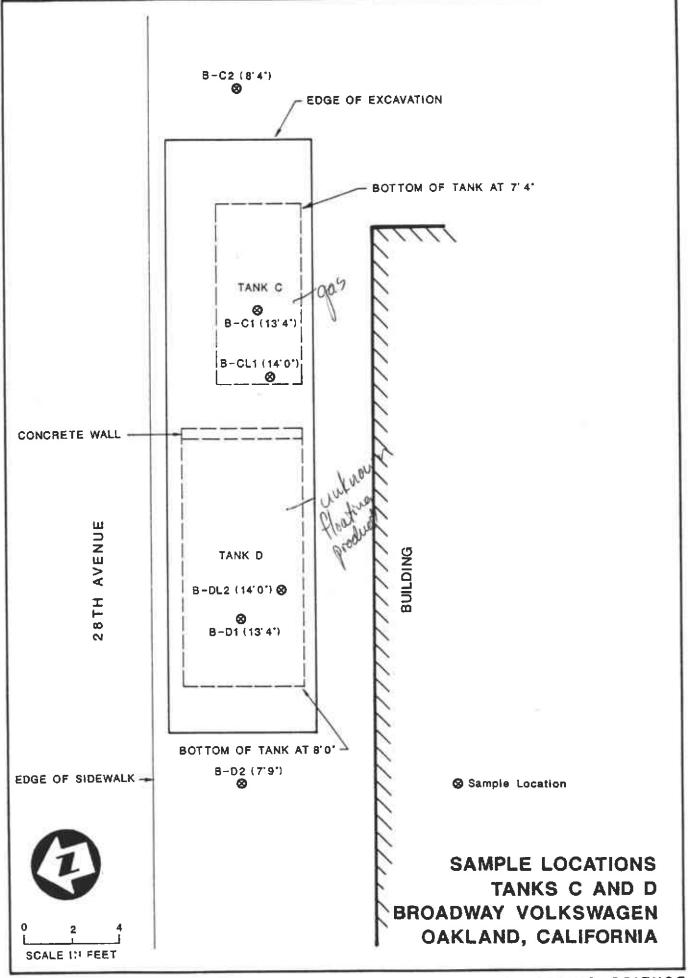
Sample Location



WASTE OIL TANK A BROADWAY VOLKSWAGEN OAKLAND, CALIFORNIA

SCALE IN FRET

OAKLAND, CALIFORNIA



tank was removed. The bottom looked intact, but there were <u>numerous</u> small holes along the top and sides. One small hole was noted on the west end near the bottom. The bottom of this tank was approximately feet below grade.

#### SAMPLING PROTOCOL

Soil samples for analysis were collected by pounding a 2-inch diameter by 6-inch long brass tube into material brought up in a backhoe bucket. After withdrawing the tubes, they were capped with aluminum foil and non-reactive plastic caps, sealed with tape, labeled, and placed in a refrigerated ice chest for delivery to the laboratory the same day.

Soil vapors were also sampled for the purpose of field screening using a Photovac Tip 1 photoionization device (PID). This device was calibrated to the ambient atmosphere and provided a reading of total ionizable vapors relative to the background. These readings, while they cannot be used for a definitive indication of soil contamination, are useful for locating "hot spots" in need of more precise analysis. PID samples were placed in zip-lock plastic bags and allowed to warm in the sun so that any hydrocarbons present could volatilize before vapor readings were taken.

One soil sample, B-A, was collected under the center of Tank A from a depth of 8 feet below grade (see Figure 3). Two samples (B-B1 and B-B2) collected from the Tank B excavation, one below the oil drain pipe end of the tank, and the other from the southwest sidewall. These soil samples were collected from the depths of 11 feet 6 inches and 10 feet, respectively (Figure 4).

Two soil samples (B-Cl and B-C2) and one groundwater sample (B-CL1) were collected from the Tank C excavation (Figure 5). B-Cl was collected under the center of the tank at a depth of 13 feet 4 inches. B-C2 was collected at a depth of approximately 8 feet 4 inches from a 2-foot undercut in the east wall of the excavation.

During the excavation, groundwater was encountered at a depth of 14 feet. This water had a petroleum sheen, but no odor was noted. Sample

B-CL1 was collected by lowering a VOA vial into the excavation on a string, then transferring the liquid to another vial for delivery to the laboratory.

Two soil samples and one groundwater sample were also collected from the Tank D excavation (B-D1, B-D2, and B-DL2). B-D1 was collected from a depth of 13 feet 4 inches underneath the western half of the tank. Sample B-D2 was another sidewall sample, collected from a 2-foot undercut into the western wall of the excavation, at a depth of 7 feet 9 inches (Figure 5). The water sample B-DL2 was collected in the same manner as B-CL1. The groundwater in this excavation had a layer of floating product (<1/4 inch) and a strong gasoline odor.

After sampling, all excavations were backfilled with peagravel and paved over.

#### **ANALYTICAL RESULTS**

Soil samples from the two waste oil tanks (Tanks A and B) and the unknown tank (Tank D) were analyzed for total petroleum hydrocarbons (TPH) by EPA Method 8015 (modified), oil and grease (0&G) by EPA Method 503E, and volatile organic compounds (VOCs) including benzene, toluene, xylene, and ethylbenzene (BTX&E) by EPA Method 8240. The 8240 analyses for Tanks A and B were performed by Engineering-Science Laboratory Services, 600 Bancroft Way, Berkeley, California, California certified for this method. All other analyses were performed by Brown & Caldwell Laboratories in Emeryville, California, also California certified. soil samples from the unleaded gasoline tank, Tank C, were analyzed for TPH by Method 8015 (modified) and for BTX&E by EPA Method 8020. analyses were performed by Brown and Caldwell as were the water samples B-CL1 and B-DL2 which were analyzed for TPH by Method 8015 and BTX&E by EPA Method 602. A summary of the analytical results is presented in Table 1 and the complete laboratory reports and Chain-of-Custody records are in Appendix B. PID readings taken during the sampling at various depths are shown on Table 2.

TABLE 1

**ANALYTICAL RESULTS BROADWAY VOLKSWAGEN** OAKLAND, CALIFORNIA 15 and 23 August 1988

				J dild ED I	.45454 150				
Sample ID (Soil Samples)	Tank	Depth (ft)	Total Petroleum Hydrocarbons (mg/kg) (ppm)	Oil and Grease (mg/kg) (ppm)	Benzene (mg/kg) (ppm)	Toluene (mg/kg) (ppm)	Total Xylenes (mg/kg) (ppm)	Ethyl- benzene (mg/kg) (ppm)	Volatile Organic Compound (ug/kg) (ppb)
B-A B-B1 B-B2 B-C1 B-C2 B-D1 B-D2	A B C C C	8' 11'-4" 13'-4" 8'-4" 7-'9"	<10 56 •940 <10 <10 •2,900 <10	<50 680 2,400 NA NA 1,200 <50	ND <sup>a</sup> ND ND 1.3 <0.3	ND ND ND 0.9 <0.3 6.6 26	ND ND ND 0.3 <0.3 46 78	ND ND ND <0.3 <0.3 12	ND ND NA NA NA ND
Detection Limit			10	50	0.3	0.3	0.3	0.3	С
Action Limit		22	100 <sup>d</sup>	100 <sup>d</sup>	NLe	NL	NL	NL	
(Water Samples)	1		(mg/l) (ppm)		(mg/l) (ppm)e	(mg/l) (ppm) <sup>e</sup>	(mg/l) (ppm)e	(mg/l) (ppm)f	
B-CL1 B-DL2		14 14	450	NA NA	40.33	39 3.5	54 6.6	17 1.1	NA NA
Detection Limit			1		0.05	0.05	0.05	0.05	55
Action Limit		<b>*</b> *	g	g	NL	NL	NL	NL	

aNone Detected (below detection limit)
Not Analyzed

CDetection Limit Varies by Compound dCalifornia Regional Water Quality Control Board

eNot Listed

fBy EPA Method 602 (all other 602 compounds were below the detection limit)

gEvaluated on a site by site basis

TABLE 2
PHOTOIONIZATION DEVICE (PID) READINGS

BROADWAY VOLKSWAGEN OAKLAND, CALIFORNIA 15 and 23 August 1988

TANK	A	TANK	В	TANI	< C	TANK D			
Depth (ft)	Reading <sup>a</sup>	Depth (ft)	Reading <sup>D</sup>	Depth (ft)	Reading	Depth (ft)	Reading 330		
	SHE	10	150-300	8	1400-1800	6			
		11	250-280	13.5	660-670	8.5	900-1260		
				14	1200	11-12.5	650-1040		
						13.5	60-70		

<sup>a</sup>Tank A Readings Not Made bNo Units (a relative number) Analyses for the Tank B samples show evidence of contamination. The sample collected under this waste oil tank (B-B1) showed 56 parts per million (ppm) TPH identified as oil plus low boiling point hydrocarbons, and 680 ppm oil and grease. BTX&E and volatile organic compounds (VOCs) were all below the detection limit in sample B-B1. The sidewall sample (B-B2) had 840 ppm TPH and 2,400 ppm oil and grease. The BTX&E and VOCs were also below the detection limits for sample B-B2. PID readings taken at these sample locations (Table 2) show moderately elevated levels, ranging from 150 - 300.

The bottom sample from the Tank C excavation (B-C1) showed no TPH and only minor amounts of benzene, toluene and xylene (1.3, 0.9, and 0.3 ppm respectively), and the sidewall sample (B-C2) contained no detectable contaminants. However, the groundwater grab sample (B-CL1) contained 450 ppm TPH identified as gasoline, and the BTX&E levels were 21, 39, 54, and 17 ppm respectively. PID readings of soil vapor (Table 2) at different depths in this excavation show elevated levels are present from 8 feet (1,400 to 1,800) down to the groundwater surface (1,200 at 14 feet).

Soil sample B-D1, collected from the bottom of the Tank D excavation (Figure 5) shows elevated concentrations of TPH (2,900 ppm) and oil and grease (1,200 ppm). BTX&E levels were also elevated, with concentrations of 1.4 ppm, 6.6 ppm, 46 ppm, and 12 ppm, respectively. The sidewall sample B-D2 contained no detectable levels of TPH or oil and grease, however, BTX&E were detected at concentrations of 2.2 ppm, 26 ppm, 70 ppm, and 14 ppm, respectively. Although there was floating product on the groundwater in the Tank B excavation, groundwater grab sample B-DL2 showed relatively low concentrations of TPH and BTX&E. TPH was detected at 7.2 ppm and the concentrations of BTX&E were 0.73 ppm, 3.5 ppm, 6.6 ppm, and 1.1 ppm, respectively. PID readings ranged from 900 to 1,260 at a depth of 8.5 feet down to 60 to 70 at a depth of 13.5 feet.

The California Department of Health Services (DOHS) stipulates that soil contaminated with petroleum hydrocarbons above 1,000 ppm be considered hazardous and must be removed or treated. Levels above 100 ppm are of concern to the California Regional Water Quality Control Board

(RWQCB) due to the potential for groundwater contamination. In most cases soil having higher concentrations (>100 ppm) must be remediated and a groundwater monitoring program instituted. While BTX&E do not have specific action levels, the presence of these compounds in the soil or groundwater is an indication of a problem.

#### CONCLUSIONS

- Based on a visual inspection of Tank A and the surrounding soil, and on the analytical results for soil sample B-A, it appears that no leakage has occurred from Tank A.
- Soil contaminated with potentially significant concentrations of TPH and oil and grease was not excavated from the Tank B excavation site. The vertical and lateral extent of te contamination has not been completed delineated.
- Although the soil surrounding Tank C shows relatively low concentrations of BTX&E, the groundwater in the Tank C excavation contains significant concentrations of BTX&E and TPH. The lateral extent of this groundwater contamination is unknown.
- Soil samples collected from the Tank D excavation site contain significant levels of BTX&E and concentrations of TPH and oil and grease which exceed the DOHS action level (1,000 ppm). BTX&E concentrations in groundwater from the Tank D excavation show lower concentrations than was detected in the soil, but may still be of concern. The vertical and lateral extent of contamination in the soil and groundwater at the Tank D excavation site has not been completely delineated.

#### RECOMMENDATIONS

 Further investigation and possibly excavation should be carried out at the Tank B site to help define the vertical and lateral extent of the TPH and oil and grease contamination.

- As required by the RWQCB, groundwater monitoring well should be installed immediately downgradient to the Tank B site and sampled periodically to determine whether any groundwater contamination has occurred.
- The Tank D excavation should be further investigated to help define the vertical and lateral extent of the contamination left in the ground.
- A groundwater monitoring well should be installed immediately downgradient to the Tanks C and D excavations and sampled periodically to help determine the extent of groundwater contamination at this location, as required by the RWQCB.

ES ENGINEERING-SCIENCE, INC.

Subject PHOTOGRAPHS

Client VORELCO, INC.

Job No. NC 050

/ \_\_\_\_\_\_ Date \_

Date \_\_\_\_\_

Sheet <u>1</u> of <u>9</u>

Rev



BROADWAY VOLKSWAGEN

TANK A BEING REMOVED



EXCAVATION

600 BANCROFT WAY
BERKELEY, CALIFORNIA 34710
(415) 548-7970

vorelco, INC.  PHOTOGRAPHS BROADWAY VOLKSWAGEN	Job No. NC 050	
ject FITOTOGRAFHS BROADWAY VOLKSWAGEN	Ву	Date
		Rev
	7.00 F	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		
	Landa San Carlo	
	TANK B	
	CORRO	DED FILL PIPE
		10 TO 10
	200	
EST I VINCES	The state of the s	
7.7		
- A		
	~~~ <b>~</b>	XXXX
	>>>>>>	****
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	XXXX
	************	\$\$\$\$\$
- Comment		*****
		· * ± *
	342	TANK B
	The state of the s	
		BEING REMOVE

600 BANCROFT WAY BERKELEY, CALIFORNIA 94710 [415] 548-7970

lient	VORELCO, INC.		Job No. NC 050	Sheet _4_ of _9
	PHOTOGRAPHS	BROADWAY VOLKSWAGEN		
				Rev
				D 1
Y		<b>™</b>		
4	5.362	1 1 the 1		
-				
-	40.0	,	<u> </u>	
			š ———	
-	100		TANK_C	
			BEING REI	MOVED
	25.4			
	1.7			
			·	
		10000	i in	
-		170000	1.234	
-	2000	Service A	)	
-	0/3			
		and the same		
	A A	成立了。 安任人在	.1 - Fab	
				}
-				TANK C
-				BEFORE-REMOVAL
	é			
		<b>在一个人</b>	se ·	

BERKELEY, CALIFORNIA 94710 1415, 548-7970

Client VORELCO, INC.	Job No. NC 050	Sheet 5 of 9
Subject PHOTOGRAPHS BROADWAY VOLKSWAGEN	Ву	Date
		Rev
The second secon		
THE RESERVE OF THE PERSON OF T		
	5.	
A Y		
E. H. M. S.		
-2/	· ·	
	::::::::::::::::::::::::::::::/	
	- 1	
	The state of the s	
CONTAMINATED SOIL FRO	M TANK C EXCAVATION	
ten Kert	the second contract of	

ES ENGINEERING-SCIENCE, INC.

600 BANCROFT WAY
BERKELEY, CALIFORNIA 94710
(415) 548-7970





BERKELEY CALIFORNIA 94710 (415) 548-7970

Client' VORELCO, INC.	Job No. NC 050	Sheet 7 of 9
Subject PHOTOGRAPHS BROADWAY VOLKSWAGEN	ву	Date
		Day



TANK D BEING REMOVED



HOLES IN TANK D



BERKELEY, CALIFORNIA 94710 (415) 548-7970

llent _	VORELCO, INC.		Job No. NC 050	Sheet <u>8</u> of	_
ıbject	PHOTOGRAPHS	BROADWAY VOLKSWAGEN	Ву	Date	_
	*		8 2	Rev	_
-					-
1					1
					_
1	1				
11					
				1 1	311
					T
					_
					-
0000			" - " Marky".		-
			1.71		-
					_
					_
Ų.			, T		
			*		
		993			
		31.	2		
		· / /			
		<b>24</b> \ 9			
_			* 4		
-		7 7			
+					
-		-17-11-2	*		_
1		CDOUNDWATER WIT	TH FLOATING PRODUCT		_
			EXCAVATION		_
		03.0340.0	T 02.5(0.5(0.5(0.50.5))		_
¥.					_
					_
Š					
+					
+					
-					



600 SANCROFT WAY BERKELEY, CALIFORNIA 94710 (415) 548-7970

Cilent-	VORELCO, INC.		Job No. NC 050	Sheet of9
	PHOTOGRAPHS	BROADWAY VOLKSWAGEN	Ву	Date
_				nev.
_				
i f				
	A.		77 m	
			a la la	
11				
3	1			
1				
	- A			
111		7		
1				
_		and the second		
		2		
-		CONTAMINATED SOIL STOCK	KPICED BEHIND BUILDING	
+				
+				
-		+++		
-				
	1			
				1

# APPENDIX B

ANALYTICAL RESULTS
AND
CHAIN-OF-CUSTODY RECORDS

INCTATE OF CITABLE, INC.

					CHAIN	OF (	CUS	TOD	YR	ECC	RD						PAGE 1 O	
Browna	- Calelu	<u>je []</u>										VSES	REQ	IIRED	/	70	7	
CLIENT:	-SCIENC	PRO	JECT MAN	AGEH:		1	္မွ						7	7	1 /	2/	4	·
ENGINEERING- INC. BERK	KELEY	Kıc	k Mak	<u>q (21</u>	MC 050	0.05	CONTAINERS		,	/ /	/~6/	γ,	/ /	/ /	/o /s	JANAHOMO JANA	<u> </u>	
DECLECT NAME	- / 1 0 0 4	TION		•		1	¥		_/-	$\sqrt{k}$	3/			18		/ 🕺		
Vovelco/	Broad	Jway	, Volks	wag	en		Ö		10	1/3	/	/		PRESE	/\$/	£ /	/	,
SAMPLER(S): (S	SIGNATU	RE)	<u>ч.</u> #	_	•		P.		/ベ/	\ \8 \\	s. /			\ \ \ \	μ <sup>ο</sup> / Ξ	\$ /	REMARKS	!
E.N.Sto	<u>~~S</u>	<u> </u>	<u>- ~ (, , , , , , , , , , , , , , , , , , </u>	<u></u>			NO.	1	0,400	>					SE COMPOSITED		REMARKS	
SAMPLE DATE	TIME	MATRIA	S/	AMPLE	LOCATION			<b>/</b> 00	0	<b></b>			_	/ _				
B-A 8/11/8	2 12:20	Soil	uzste	011	lank A		١	/	/						24 hr.			
B-B1 "	(7'71)	ابد	waste a	×1 +	ank B		1	1	/						il			
	17145	Soul	uside oil	I L.	LB-siden	2411	1	1	1						eq			<u>,,, , , , , , , , , , , , , , , , , , </u>
B-BZ "	117.73	1 301	1003/2011	CAN												Ĺ		
	_	<del> </del>			·													
	_		<del> </del>										Ţ					
			<del> </del>				<del>                                     </del>	<del>                                      </del>	<del>                                     </del>		<del>                                     </del>							-
						<del></del>		-	╁	<del>                                     </del>								
		<u> </u>	<del>- </del>		<u> </u>		-	-	┼─	<del>                                     </del>				<del>                                     </del>				
						·=-	<del> </del> _	├	+	-			-		<del>                                     </del>			
							┼-	╁		<del> </del> -			-					•
			<u> </u>				┼	┼		╂	-	┤╌	<del>                                     </del>	┼-	<del>                                     </del>	<del>                                     </del>		
		_	<u> </u>		·		-	-	<del> </del>	╁	<u> </u>	<del>                                     </del>	+-	<del> </del>	<del>                                     </del>	<del>                                     </del>		
				<del> </del>	<u></u>		-	-	+	┼	-	╁	╁	╂┈	1	<del>                                     </del>	<u> </u>	
							<b> </b>	-			-	+-	-	┼	<del>                                     </del>			
								<u> </u>					1	1	DATE/1	J	RECEIVED BY: (SIGNATU	JRE)
RELINQUISHED B	Y: (SIGNAT	UREI	DATE/T	IME	RECEIVED BY:	SIGNAT	TURE		RELINC	JUISHE	D BY: (	SIGNA	(JHL)		ן אוביו	1441 E		
1		1											. <u>.</u>				<u> </u>	
RELINQUISHED B	Y-ISIGNAT	URE)	DATE/T	IME	RECEIVED FOR	LABOR	RATOR	Y BY:	, [	ATE/T	IME	F	EMAF	RKS				
MELINGUISHED B	#	<del>/</del>		9:30	SIGNATURE	41.7	1/-	<i>-</i>	3/10	<u>ζ</u> ς].	9-3							
1	AL		/20		/ Jones/	UNC	∠ <u>1"7</u> "	<u> </u>	FIEL	O EU G	= 0							



LOG NO: E88-08-369

Received: 15 AUG 88 Reported: 22 AUG 88

AUG 2 4 1988

Engineering-Science
Berkeley

Mr. Eric Storrs Engineering Science 600 Bancroft Way Berkeley, California 94710

Project: NC050.05

#### REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION,	SOIL	SAMPLES		D	ATE SAMPLED
08-369-1 08-369-2 08-369-3	B-A B-B1 B-B2					11 AUG 88 11 AUG 88 11 AUG 88
PARAMETER				08-369-1	08-369-2	08-369-3
	s by IR, mg/kg Bydrocarbons			<50	680	2400
Date Analy	-			08.15.88	08.15.88	08.15.88
•	cterization				OIL	OIL+LOV BO
Total Fuel	Hydrocarbons, mg/kg			<10	56	840

Sim D. Lessley, Ph.D., Laboratory Director

ENGINEERING - SCIENCE, INC.

855 PAGE | OF | CHAIN OF CUSTODY RECORD ES Labs J BE COMPOSITED BY LAB CLIENT:
ENGINEERING-SCIENCE, Rick Makdisi PROJECT MANAGER: PROJ. NO.: **ANALYSES REQUIRED** CONTAINERS TUMANOUNO MUE MC050,05 PRESERVED PROJECT NAME / LOCATION: Vorelco/Broadway Volkswagen SAMPLER(S): (SIGNATURE) ᆼ E.H. Sbrrs ġ Ż REMARKS MATRIX SAMPLE DATE TIME SAMPLE LOCATION ID 8/15/88 12:20 501 24 hr. 881880 B-A waste oil tenk A waste oil tank B 88 88 B-B1 17:20 881882 B-B2 17:45 waste oil fank B- sidewall 11 RECEIVED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) DATE/TIME RECEIVED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) DATE/TIME RECEIVED FOR LABORATORY BY: REMARKS DATE/TIME DATE/TIME

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO COORDINATOR FIELD FILES

#### ENGINEERING SCIENCE Priority Pollutant Analysis Volatile Organics - Method 8240 Matrix: Soil

Date Received: August 16, 1988

Work Order : 855

Date Reported: August 16, 1988

Job No. : NC050.05

For:

VORELCO/BROADWAY VOLKSWAGEN

ATTN: E.N.STORRS

Address: BROADWAY.

DAKLAND, CA

Lab Number:

88081880

88081881

Sample No.:

B-A; WASTE OIL TANK A B-BI; WASTE OIL TANK &

Date Sampled:

8-15-88

8-15-88 17:20

Time Sampled: Date Analyzed:

12:20 8-16-88

8-16-88

Percent Moisture:

...... . . . . . . . . . . . . .

reficent noisture.			
Compound	Detection Limit	1	Analytical Results (wet weight)
	ug/kg	ug/kg	ug/kg
Chloromethane	10	ND	ND
Bromomethane	10	ND	ND
Vinyl Chloride	10	ND	ND
Chloroethane	10	ND	ND
Dichloromethane	5	ND	NO
Trichlorofluoromethane	10	ND	ND
1,1-Dichloroethene	5	ND	ND
1,1-Dichloroethane	5	ND	NO
trans-1,2-Dichloroethene	5	ND	ND
Chloroform	5	ΝD	ND
1,2-Dichloroethane	5	ND	NB
1,1,1-Trichloroethane	5	ND	ND
Carbon Tetrachloride	5	ND	ND
Bromodichloromethane	5	ND	ND
1,2-Dichloropropane	5	ND	ND
trans-1,3-Dichloropropene	5	ND	ND
Trichloroethene	5	ND	ND
Benzene	5	ND	ND
Dibromochloromethane	5	ND	ND
1,1,2-Trichloroethane	5	ND	ND
cis-1,3-Dichloropropene	5	ND	ND
2-Chloroethyl vinyl ether	10	ND	ND
Bromoform	5	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND
Tetrachloroethene	5	ND	ND
Toluene	5	ND	ND
Chlorobenzene	5	ND	ND
Ethylbenzene	5	ND	ND
Styrene	5	ND	NO
Total Xylenes	5	ND	NO

#### Page 2 of 2

#### ENGINEERING SCIENCE Priority Pollutant Analysis Volatile Organics - Method 8240 Matrix: Soil

Date Received: August 16, 1988 Date Reported: August 16, 1988 Work Order: 855 Job No.: NC050.05

For:

VORELCO/BROADWAY VOLKSWAGEN

ATTN: E.N.STORRS

Address: BROADWAY,

OAKLAND, CA

Lab Number: 88081880 88081881

Sample No.: B-A: WASTE OIL TANK A B-B1: WASTE OIL TANK &

Date Sampled: 8-15-88 8-15-88 Time Sampled: 12:20 17:20 Date Analyzed: 8-16-88 8-16-88

Percent Moisture:

Compound	Detection Limits		Analytical Results (wet weight)
	ug/kg	ug/kg	ug/kg
Acetone	100	ND	ND
Acrolein	10	ND	ND
Acrylonitrile	10	ND	ND
2-Butanone (MEK)	100	ND	ND
Carbon Disulfide	10	ND	ND
Dibromomethane	10	ND	ND
1,4-Dichloro-2-butene	10	ND	ND
Dichlorodifluoromethane	10	ND	ND
Ethyl methacrylate	10	ND	ND
2-Hexanone	50	ND	ND
Iodomethane	10	ND	ND
4-Methyl-2-pentanone	50	ND	ND
1,2,3-Trichloropropane	10	ND	ND
Vinyl acetate	50	ND	ND

Analyst

allBasar Laboratory Supervisor

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

### ENGINEERING SCIENCE Priority Pollutant Analysis Volatile Organics - Method 8240 Matrix: Soil

Date Received: August 16, 1988

Work Order: 855

Date Reported: August 16, 1988

Job Number : NC050.05

For:

VORELCO/BROADWAY VOLKSWAGEN

ATTN: E.N.STORRS

Address: BROADWAY,

OAKLAND,CA

Lab Number:

Sample No.:

88081882 B-B2; WASTE OIL TANK B -SIDEWALL

8-15-88

Date Sampled: Time Sampled:

Date Analyzed:

17:45 8-16-88

Percent Moisture:

Compound	Detection Limit ug/kg	Analytical Results (wet weight) ug/kg
Chloromethane	10	ND
Bromomethane	10	ND
Vinyl Chloride	10	ND
Chloroethane	10	ND
Dichloromethane	5	ND
Trichlorofluoromethane	1 <b>Ø</b>	ND
1,1-Dichloroetheme	5	NÖ
1,1-Dichloroethane	5	ND
trans-1,2-Dichloroethene	5	ND .
Chloroform	5	ND
1,2-Dichloroethane	5	ND
1,1,1-Trichloroethane	5	ND
Carbon Tetrachloride	5	ND
Bromodichloromethane	5	ND
1,2-Dichloropropane	5	ND
trans-1,3-Dichloropropene	5	ND
Trichloroethene	5	ND
Benzene	5	ND
Dibromochloromethane	5	ND
1,1,2-Trichloroethane	5	ND
cis-1,3-Dichloropropene	5	ND
2-Chloroethyl vinyl ether	10	ND
Bromoform	5	ND
1,1,2,2-Tetrachloroethane	5	ND
Tetrachloroethene	5	ND
Toluene	5	ND
Chlorobenzene	5	ND
Ethylbenzene	5	ND
Styrene	5	ND
Total Xylenes	5	ND

B = Compound was found in the blank.

# ENGINEERING SCIENCE Priority Pollutant Analysis Volatile Organics - Method 8240

Matrix: Soil

Date Received: August 16, 1988

Date Reported: August 16, 1988

Work Order: 855

Job Number : NC050.05

For:

VORELCO/BROADWAY VOLKSWAGEN

ATTN: E.N.STORRS

Address: BROADWAY,

Lab Number:

OAKLAND, CA

88081882

B-B2; WASTE OIL TANK B -SIDEWALL

Sample No.: Date Sampled: Time Sampled: Date Analyzed:

8-15-88 17:45

Percent Moisture:

8-16-88 

Compound	Detection Limits ug/kg	Analytical Results (wet weight) ug/kg	
Acetone	100	ND	
Acrolein	10	ND	
Acrylonitrile	10	ND	
2-Butanone (MEK)	100	ND	
Carbon Disulfide	10	ND	
Dibromomethane	10	ND	
1,4-Dichloro-2-butene	10	ND	
Dichlorodifluoromethane	10	ND	
Ethyl methacrylate	10	ND	
2-Hexanone	50	ND	
Iodomethane	10	ND	
4-Methyl-2-pentanone	50	ND	
1,2,3-Trichloropropane	10	ND	
Vinyl acetate	50	ND	

Ellen Mills

Analyst

Laboratory Supervisor

NOTE: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

B = Compound was found in the blank.

INC TEETING TOIT OF THE

PAGE | OF CHAIN OF CUSTODY RECORD Lab: Brown + Caldwell TO BE COMPOSITED BY LAB PROJ. NO.: ANALYSES REQUIRED PROJECT MANAGER: CLIENT: ENGINEERING-SCIENCE, R. Makdisi CONTAINERS NC050,05 INC. BERKELEY PROJECT NAME / LOCATION: Vovelco / Broadway Volkswagen SAMPLER(S): (SIGNATURE)
E.N. Storrs (-4. Ats., Jon Hoffman P REMARKS ġ TIME MATRIX SAMPLE SAMPLE LOCATION DATE 24-42 8/23/88 12:35 Soil Tank D B-D1 11 B-DZ 13:45 501 11 114:10 Water B-DL2 ć. u Tank C 16:30 Soct B-C1 \* B-CZ 17:15 |5011 11 51 11 B-CL1 17:00 | water RECEIVED BY: ISIGNATURE) DATE/TIME RELINQUISHED BY: (SIGNATURE) RECEIVED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) DATE/TIME 23 77:5/ Log # 8808571\*(1-6) CA/LABORATORY BY: DATE/TIME RELINQUISHED BY: (SIGNATURE) DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO COORDINATOR FIELD FILES

1255 POWELL STREET EMERYVILLE, CA 94608 . (415) 428-2300

September 8, 1988

Mr. Eric Storrs
Engineering Science
600 Bancroft Way
Berkeley, California 94710

SEP 0 9 19881

ungineering-Science

Berkeley

Dear Mr. Storrs:

As per our telephone conversation, this is the letter explaining the delayed order number E8808571.

Brown and Caldwell Laboratories could not meet the requested 48 hour turnaround time for order number E8808571, due August 25, because of a breakdown of the gas chromatograph dedicated to running modified EPA method 8015 (Total Fuel Hydrocarbons). The breakdown occurred late Wednesday, August 24, and at first we believed it was a simple repair. Brown and Caldwell could not make the turnaround time, and informed you that we could probably complete it by Friday, August 26. After a number of attempts, however, the problem with the gas chromatograph turned out to be more difficult than originally believed. We informed you that the analysis could not be completed as promised. A second gas chromatograph was reconfigured for total fuel hydrocarbons by Tuesday, August 30, and Brown and Caldwell completed and reported the analysis by Tuesday afternoon, August 30.

We are in the process of purchasing a second gas chromatograph to handle the increasing volume of total fuel hydrocarbon analysis. This should greatly reduce instrument down time, and prevent future delays of this type.

Please let me know if more information is required. We are very sorry for the inconvenience this has caused you.

Very truly yours,

BROWN AND CALDWELL LABORATORIES

Barbara Bowman

Client Services Representative

cc: H. Ficklin, Client Services Manager, Brown and Caldwell



LOG NO: E88-08-571

Received: 23 AUG 88 Reported: 02 SEP 88

Mr. Eric Storrs Engineering Science 600 Bancroft Way Berkeley, California 94710

#### REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO SAMPLE DESCRIP	TION, SOIL SAMPLES		DA	TE SAMPLED
08-571-1 B-D1 08-571-2 B-D2 08-571-4 B-C1 08-571-5 B-C2				23 AUG 88 23 AUG 88 23 AUG 88 23 AUG 88
PARAMETER	08-571-1	08-571-2	08-571-4	08-571-5
Hydrocarbons by IR, mg/kg	1200	<50	•••	
BTX by PID (EPA-8020) Benzene, mg/kg	•••		1.3	<0.3
Ethylbenzene, mg/kg			<0.3	<0.3
Toluene, mg/kg	+		0.9	<0.3
Total Xylene Isomers, mg/	kg		0.3	<0.3
Total Fuel Hydrocarbons				
Date Analyzed	08.28.88	08.28.88	08.28.88	08.28.88
Fuel Characterization, mg	/kg GAS			
Total Fuel Hydrocarbons,		<10	<10	<10

1255 POWELL STREET EMERYVILLE, CA 94606 . (415) 428-2300

LOG NO: E88-08-571

Received: 23 AUG 88 Reported: 02 SEP 88

Mr. Eric Storrs Engineering Science 600 Bancroft Way Berkeley, California 94710

#### REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO SAMPLE DESCRIPTION, SOIL SAMP	LES		DA	TE SAMPLED
08-571-1 B-D1 08-571-2 B-D2 08-571-4 B-C1 08-571-5 B-C2				23 AUG 88 23 AUG 88 23 AUG 88 23 AUG 88
PARAMETER	08-571-1	08-571-2	08-571-4	08-571-5
Purgeable Priority Pollutants Extraction 1,1,1-Trichloroethane, mg/kg 1,1,2,2-Tetrachloroethane, mg/kg 1,1,2-Trichloroethane, mg/kg 1,1-Dichloroethane, mg/kg 1,1-Dichloroethylene, mg/kg 1,2-Dichloroethane, mg/kg 1,2-Dichloropropane, mg/kg 1,3-Dichloropropane, mg/kg 2-Chloroethylvinylether, mg/kg Acrolein, mg/kg Acrolein, mg/kg Bromodichloromethane, mg/kg Bromomethane, mg/kg Benzene, mg/kg Carbon Tetrachloride, mg/kg Bromoform, mg/kg Bromoform, mg/kg	08.24.88 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2			
Chloroform, mg/kg	<0.2 <0.2	<0.2 <0.2		
Chloromethane, mg/kg Dibromochloromethane, mg/kg	<0.2	<0.2		
Ethylbenzene, mg/kg	12	14		

1256 POWELL STREET EMERYVILLE, CA 94608 • (415) 428-2300

LOG NO: E88-08-571

Received: 23 AUG 88 Reported: 02 SEP 88

Mr. Eric Storrs Engineering Science 600 Bancroft Way Berkeley, California 94710

#### REPORT OF ANALYTICAL RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION, SOIL SAM	<b>IPLES</b>		DA	TE SAMPLED
08-571-1 08-571-2 08-571-4 08-571-5		· · · · · · · · · · · · · · · · · · ·			23 AUG 88 23 AUG 88 23 AUG 88 23 AUG 88
PARAMETER		08-571-1	08-571-2	08-571-4	08-571-5
Tetrachlor Trichloros Trichloros Toluene, m Vinyl chlo trans-1,2-	chloride, mg/kg roethylene, mg/kg ethylene, mg/kg fluoromethane, mg/kg mg/kg oride, mg/kg -Dichloroethylene, mg/kg -Dichloropropene, mg/kg	<0.2 <0.2 <0.2 <0.2 6.6 <0.2 <0.2 <0.2	<0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2 <0.2		
C5-C11 Hy	tified Results ** ydrocarbons, mg/kg lene Isomers, mg/kg	2000 46	1000 78		

\*\* Quantification based upon comparison of total ion count of the compound with that of the nearest internal standard.

1255 POWELL STREET EMERYVILLE, CA 94608 \* (415) 428-2300

LOG NO: E88-08-571

Received: 23 AUG 88 Reported: 02 SEP 88

Mr. Eric Storrs Engineering Science 600 Bancroft Way Berkeley, California 94710

#### REPORT OF ANALYTICAL RESULTS

. Page 4

LOG NO SAMPLE DESCI	RIPTION, AQUEOUS SAMPLES		DA	ATE SAMPLED
08-571-3 B-DL2 08-571-6 B-CL1				23 AUG 88 23 AUG 88
PARAMETER		08-571-3	08-571-6	
Total Fuel Hydrocarbons Date Analyzed Fuel Characterization, Total Fuel Hydrocarbons EPA Method 602 Date Extracted 1,2-Dichlorobenzene, us 1,3-Dichlorobenzene, us 1,4-Dichlorobenzene, us Benzene, ug/L Chlorobenzene, ug/L Ethylbenzene, ug/L Total Xylene Isomers,	mg/L s, mg/L g/L g/L g/L	08.30.88 GAS 7.2 08.25.88 <50 <50 730 <50 1100 3500 6600	08.28.88 GAS 450 08.29.88 <50 <50 21000 <50 17000 39000 54000	

Sim D. Lessley, Ph/D., Laboratory Director

<u> </u>	UNIFORM HAZAI WASTE MANIF	FEST	SAC	950	6757/2	Docu	ment No.		of 5"			he shad by Fede
3	Allièc Period and Mai	Holew	h .	POR	193			A. St	te Mani	7 D E	Nent Nun	667 O.C
	- •		•	000)				9. 84	te Gene	raior e ED	וכבי	up
4	Generator's Phone Quality	2576	<u>-8500</u>	<u> </u>	Hilmar f	324		C	40	180	617	<b>17</b>
	Allia Pet		4	راملو	A Marcin	Number	100			porter's E	90.	173
7.	Transporter 2 Company Na	_		_	40980 US EPA E	- 1401192000		P 414	to Trans	porter's K		13.4E
٦	W-H Tunk		<u>e</u>	<u></u>	1,0040	370	<u>645</u>	F. Tre	asporte	's Phone	2/3	427
		erce	<b>786</b>	797	o Alum	Number		31	ite Feel	140 D \ -1		- ->2
	P		<b>'</b>		O MIAM	eory		H. Fa	CHIY'S P	hope :		<u> 3176</u>
$\perp$	Compton (	A 91	حددر		ATC1801	0/3,			2c	<u> 15</u>	37	710
1	1. US DOT Description (Incl.						12. Gow	lainers (   Type		Total Juantity	14. Unit Wt/Vo	W
	Waste oil	Con	bus f	ble	Line	./						State
L	NOS NOS	_/27	'A .	- ,	-1900		1.1	77	<b>,</b> ,		1-	EPA/O
b.		7007						1				State
		•						1.	١.,			EPA/OI
G.	•			-		-		$^{+-}$		!L	╁┈	State
											ļ	EPA/OI
ø.				<u> </u>				+-	┝┻	11	—	State
1	4.							1				
Ļ	Additional Descriptions for						11					EPA/O
*	About 15		မှီးရန် (၁၈) ရ					. Q.	to y	$v_{i},v_{j},\ldots,v_{j-1}$	d.	
								. G.			d.	
16	5. Special Handling Instruction	one and Addit	ional Informati	ion				0.	A A A		d.	
11		ons and Addit	ional Informati	in Articles				.0.	The second secon		d.	
	6. Special Handling Instruction			·				G.				-
	Special Hendling Instruction     GENERATOR'S CERTIFERAME and are classifier	CATION: II	hereby decia	re that the c	contents of this co are in all respect	maignment at a in proper	are fully a	and accu	rately desport b	escribed a		y proper ling to a
	Special Heading Instruction     GENERATOR'S CERTIFIED INTO A CHARACTER AND A CHARACTER AN	CATION: 11 d. packed, m al government	hereby decia arked, and is t regulations.	re that the c	ere in six respect	ia in proper	Conditio	n for Irai	naport b	y highwa	above by	ding to a
	8. Special Handling Instruction 8. GENERATOR'S CERTIFIES and and are classified international and nations of 1 am a large quantity determined to be economic which minimizes the	FICATION: III d. packed, m iii government generator, it comically pract	hereby decia arked, and is t regulations. certify that I I ticable and I I future three	re that the c abeled, and have a progr hat a have a	are in all respect  am in place to re elected the pract	duce the vo	conditions and all the second of the second	n for trai I toxicity satment,	of was	y highwa ta ganara , or diapi	above by according to the state of the state	ding to a ne degre- rently av
34	Special Handling Instruction     GENERATOR'S CERTIFIED And are classified international and nations if I am a large quantity determined to be econo	FICATION: III d. packed, m iii government generator, it comically pract	hereby decia arked, and is t regulations. certify that I I ticable and I I future three	re that the c abeled, and have a progr hat a have a	are in all respect  am in place to re elected the pract	duce the vo	conditions and all the second of the second	n for trai I toxicity satment,	of was	y highwa ta ganara , or diapi	above by according to the said cuntor, i had can affe	ding to a ne degre- rently av- tive made ord.
H Pr	6. Special Hendling Instruction  8. GENERATOR'S CERTIFIED And A serious and are classified international and nations of 1 am a large quantity determined to be economic which minimizes the taith effort to minimize in the story of the serious and the serio	CICATION: III d. packed, m al government generator, i c mically pract present and ny waste gen	hereby decia arked, and is t regulations. certify that I I licable and I I future threa eration and a	re that the c abeled, and have a progr hat I have a t to human h elect the be	are in an respect ram in place to re- elected the pract realth and the en- rat waste manage	duce the vo	conditions and all the second of the second	n for trai I toxicity satment,	of was	y highwa ta ganara , or diapi	above by according to the said cuntor, i had can affe	ding to a ne degre- rently av- tive made ord.
) Pr	Special Hendling Instruction     GENERATOR'S CERTIFIED Ame and are classifled international and nations if I am a large quantity determined to be econome which minimizes the faith effort to minimize in	CICATION: III d. packed, m al government generator, i c mically pract present and ny waste gen	hereby decia arked, and is t regulations. certify that I I licable and I I future threa eration and a	re that the c abeled, and have a progr hat I have a t to human h elect the be	ram in place to re- elected the practicealth and the en- east waste manage.  Signature	duce the vo	conditions and all the second of the second	n for trai I toxicity satment,	of was	y highwa ta ganara , or diapi	above by according to the sal cun tor, i had can affe	ne degree rently average tive made ord.
14 Pr	6. Special Hendling Instruction  GENERATOR'S CERTUF name and are classifier international and nations if I am a large quantity determined to be econo me which minimizes the faith effort to minimize in  vinted Poped Name  7. Transporter I Acknowled Tinted/Typed Name	GCATION: 11 d. pecked, m al government generator, i comically pract present and my waste gen elle- gement of Rec	hereby decia barked, and is t regulations. certify that i i ticable and i I future threa eration and a	re that the c abeled, and have a progr hat I have a t 10 human I select the be	are in an respect ram in place to re- elected the pract realth and the en- rat waste manage	duce the vo	conditions and all the second of the second	n for trai I toxicity satment,	of was	y highwa ta ganara , or diapi	above by according to the sal cun tor, i had can affe	ne degree rently average two made and and and and and and and and and and
11 Pi	B. GENERATOR'S CERTIFIAM and and are classifled international and nations of 1 am a large quantity determined to be econome which minimizes the faith effort to minimize intend apped Name  7. Transporter 1 Acknowledge Yested/Typed Name  8. Transporter 2 Acknowledge  8. Transporter 2 Acknowledge  8. Transporter 2 Acknowledge  9. Transporter 2 Acknowledge  9. Transporter 2 Acknowledge  9. Transporter 2 Acknowledge	GCATION: 11 d. pecked, m al government generator, i comically pract present and my waste gen elle- gement of Rec	hereby decia barked, and is t regulations. certify that i i ticable and i I future threa eration and a	re that the c abeled, and have a progr hat I have a t 10 human I select the be	ram in place to re- elected the pract- nealth and the en- est waste manage.  Signature  Signature	duce the vo	conditions and all the second of the second	n for trai I toxicity satment,	of was	y highwa ta ganara , or diapi	above by according to the sal cun tor, i had can affe	ting to a the degree rently avoid to the degree rently avoid to the degree rently avoid to the degree rently and the degree rently a
11 Pi	6. Special Hendling Instruction  GENERATOR'S CERTUF name and are classifier international and nations if I am a large quantity determined to be econo me which minimizes the faith effort to minimize in  vinted Poped Name  7. Transporter I Acknowled Tinted/Typed Name	GCATION: 11 d. pecked, m al government generator, i comically pract present and my waste gen elle- gement of Rec	hereby decia barked, and is t regulations. certify that i i ticable and i I future threa eration and a	re that the c abeled, and have a progr hat I have a t 10 human I select the be	ram in place to re- elected the practicealth and the en- east waste manage.  Signature	duce the vo	conditions and all the second of the second	n for trai I toxicity satment,	of was	y highwa ta ganara , or diapi	above by according to the sal cun tor, i had can affe	ting to a me degree rently avious made ord.  Month Month Month Month Month Month
11 Pi	B. GENERATOR'S CERTIFIAM and and are classifled international and nations of 1 am a large quantity determined to be econome which minimizes the faith effort to minimize intend apped Name  7. Transporter 1 Acknowledge Yested/Typed Name  8. Transporter 2 Acknowledge  8. Transporter 2 Acknowledge  8. Transporter 2 Acknowledge  9. Transporter 2 Acknowledge  9. Transporter 2 Acknowledge  9. Transporter 2 Acknowledge	GCATION: III d. packed, m al government generator, i c present and ny waste gen  Common and ny waste gen  Common of Rec gement of Rec	hereby decia barked, and is t regulations. certify that i i ticable and i I future threa eration and a	re that the c abeled, and have a progr hat I have a t 10 human I select the be	ram in place to re- elected the pract- nealth and the en- est waste manage.  Signature  Signature	duce the vo	conditions and all the second of the second	n for trai I toxicity satment,	of was	y highwa ta ganara , or diapi	above by according to the sal cun tor, i had can affe	ting to a the degree rently avoid to the degree rently avoid to the degree rently avoid to the degree rently and the degree rently a
117 Pri	8. GENERATOR'S CERTIFIED AND A STREET OF SERVICE OF SER	GCATION: III d. packed, m al government generator, i c present and ny waste gen  Common and ny waste gen  Common of Rec gement of Rec	hereby decia barked, and is t regulations. certify that i i ticable and i I future threa eration and a	re that the c abeled, and have a progr hat I have a t 10 human I select the be	ram in place to re- elected the pract- nealth and the en- est waste manage.  Signature  Signature	duce the vo	conditions and all the second of the second	n for trai I toxicity satment,	of was	y highwa ta ganara , or diapi	above by according to the sal cun tor, i had can affe	ting to a the degree rently avious made ord.  Month Month Month Month Month Month Month
11 Pr 11 11	8. GENERATOR'S CERTIFIAM and and are classified international and nations of I am a large quantity determined to be econome which minimizes the faith effort to minimize in vinted Typed Name  7. Transporter 1 Acknowled vinted Typed Name  8. Transporter 2 Acknowled vinted Typed Name  9. Discrepancy Indication Sp.	GCATION: 11 d. pecked, m al government generator, i c prically prace present and my waste gen gement of Rec Rel C gement of Rec	hereby decia arked, and is t regulations. certify that i I ticable and is I future threa eration and a pelpt of Mater	re that the c abeled, and have a progr hat I have a t to human helect the be	are in all respect ram in place to re elected the pract nealth and the en- set waste manage.  Signature  Signature	duce the volicable methorizonment; (ment metho	condition and of the condition of the co	d toxicity satment, m a sma available	of was atorage ili quanti to me	te genera , or dispoint ity genera and that i	above by according to the sal cun tor, i had can affe	ting to a the degree rently avious made ord.  Month Month Month Month Month Month Month
11 Pr 11 11 12 22	8. GENERATOR'S CERTIFIED AND A STREET OF SERVICE OF SER	GCATION: 11 d. pecked, m al government generator, i c prically prace present and my waste gen gement of Rec Rel C gement of Rec	hereby decia arked, and is t regulations. certify that i I ticable and is I future threa eration and a pelpt of Mater	re that the c abeled, and have a progr hat I have a t to human helect the be	are in all respect ram in place to re elected the pract nealth and the en- set waste manage.  Signature  Signature	duce the volicable methorizonment; (ment metho	condition and of the condition of the co	d toxicity satment, m a sma available	of was atorage ili quanti to me	te genera , or dispoint ity genera and that i	above by according to the sal cun tor, i had can affe	ting to a the degree rently average ord.  Month in Month

(Rev. 9-56) Previous editions are obsolets.

To: P.O. Box 3000, Sacramento, CA 95812

DHS 8022 A (1/87)

YELLOW: GENERATOR RETAINS

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

INSTRUCTIONS ON THE BACK

Month Day Year

Printed/Typed Name

	Georgia	E MANI	FEST	CAUS	18201	14700	2000	1 /	of /   100 m	ormation in not require	d by Fed
"	Generator's I	Name and Ma 13/5 ml/s		. 11			1	P 31	ale Manifest D		
	27	UN B	Total du	1/254)6 ay 1946,	900		ž <b>33</b>	i \	875	0522	P
l I.	Generalor's	Kland	G	0946	اعر		9		ate Generator	• D	<del></del>
				- 7970	_	-		Į.	111	1 1 1	
5.	Trensporter t				6.	US EF D.Numb	, C	\$. 4	ate Transporte	ra in Corre	
<u>                                   </u>	ELL	<u>Kson</u>	True	kin To	CAD	90 3	AH 98	± 1	anaporter's Phy	000 25 2	100
7.	Transporter 2	Company N	ım <b>é</b>		8.	US EPA ID Numb	w 11	E. 81	ste Transporter	7.0	
<b> </b>					1111			F. Tri	neporter's Pho	350	- 0-7
9.			and Site Addre		10.	US EPA ID Numb	er	Q. 8t	ale Facility's E	)-si - i-	
•	Erry	tsgn	135	•		•	ittig			1 1 1	
		rasr	-WVd					H. Fa	cility's Phone	25.7	200
<b> </b>	KICH.	arad	<u></u>	94801	<u> </u>	00946	4396	14	11-6		
11,	US DOT Des	cription (Incl	r vdina Proper S	hipping Name, H	Stand Class and	1 10 Marie and	12. Con	ainers	13. Total	14.	T
	<u> </u>						No.	Туре	Quantil	by Unit	. W
	Wasi	CA	npty.	Storas	e Tan	Ke					State
	0.10	<b>.</b> .			=					P	1 10
<u>                                   </u>	-01/52	COUR.	Regu	used	Waste	- Only	1001	70	COBIS	000	EPA/9
"4	Wast	U E	n/8/4 c	Storag	e Tan	es T				V	State
	C. 11.					-		1.			EPA/O
6.		<u> </u>	Kefu	11708	<u>4/a.37</u>	te Only	001	170	0046	201 P	
1	USUS T	e E	moh	Ston	202 7	anto /					State
1/	C.1.F		DI.	1.1 1	7,11	1 11			- 6-		EPA/O
d.	are	<u> </u>	regi	sored	wast	2014	- 001	ZVP	0060	OH	
			V				'	<b>l</b>	_		State
1											EPA/O
J. /	Additional Des	criptions for	Meteriala Liste	d Above	<del></del>					L	
					1	1	_	K. Har	idling Codes to	r Wastes L	leted Abo
					<i></i>			J .		l b.	
	791	y w	STE C	Han	K #102	3 dry 10	Du/	•	01	<b>b.</b>	
3	30# de	y wia	. 6	pty W.	k #10%. O. Tark	3 dry 10 1024	dry	a.	01		01
3	50# de	y Wi ry ice	ste d	pty W.		3 dry 10 1024		a .	01	d.	- 4
1	Eed i	v/30.	lles des	Tec		es dry ico de 1624 les Cas d		a.	01		- 4
1	Eed i	v/30.	lles des	. Fer				<b>a</b> .	0 <u> </u>		- 4
1	Eed i	v/30.	lles des	. Fer				<b>a</b>	01		
16.	Eed i	v/30.	lles des	. Fer				<b>Q.</b>	01		
16.	Special Hand	Ing instruction	he and Addition	nel Information	Engly I	lol Cos à	er dry i a			d.	01
16.	Special Hand	Ing instruction	he and Addition	nel Information	Engly I	lol Cos à	er dry i a			d.	01
16.	Special Hand  GENERATOR name and as international	R'S CERTIFI e classified and national	CATION: I he, packed, man	nel information  proby declare this declare the declared the d	at the contents	of this consignment respects in pro	ent are fully ar	d accur	ately describe sport by high	d.	O1
16.	Special Hand  GENERATOR name and ar international  H I am a larg determined if me which mi	R'S CERTIFI re classified and national acquantity go be economical	CATION: I he, packed, mail government i enerator, I ce micelly practic	reby declare the red, and labele egulations.	at the contents id, and are in a a program in p have selected	of this consignment respects in pro-	ent are fully are per condition and nethod of tree	d accur for tran toxicity itment,	ately describe sport by high of waste gene storage, or di	d.  d above by way accord	proper riling to as
16.	Special Hand  GENERATOR name and ar international  H I am a larg determined if me which mi	R'S CERTIFI re classified and national acquantity go be economical	CATION: I he, packed, mail government i enerator, I ce micelly practic	reby declare the red, and labele egulations.	at the contents id, and are in a a program in p have selected	of this consignment respects in pro-	ent are fully are per condition and nethod of tree	d accur for tran toxicity itment,	ately describe sport by high of waste gene storage, or di	d.  d above by way accord	proper riling to as
16.	Special Hand  GENERATOR name and ar international  H I am a larg determined if me which mi	Ing matruction in the classified and national ge quantity go to be economistics the primitize materials.	CATION: I he, packed, mail government i enerator, I ce micelly practic	reby declare the red, and labele egulations.	at the contents ed, and are in a a program in p have selected human health a i the best wasf	of this consignment of the consignment of the practicable in and the environment of the management me	ent are fully are per condition and nethod of tree	d accur for tran toxicity itment,	ately describe sport by high of waste gene storage, or di	d.	proper riling to as the degree entry awayee made ord.
16.	Special Hand  GENERATOR name and are international  H I am a larg determined is me which mi faith effort to	R'S CERTIFI re classified and national ge quantity g to be econor nimizes the minimize m	CATION: I he, packed, mail government i enerator, I ce micelly practic present and fy waste gener	reby declare the red, and labele regulations. Tilly that I have table and that I uture threat to itation and select	at the contents ed, and are in a a program in p have selected human health a i the best wasf	of this consignment respects in pro-	ent are fully are per condition and nethod of tree	d accur for tran toxicity itment,	ately describe sport by high of waste gene storage, or di	d.	proper riling to as
16.	Special Hand  GENERATOR name and ar international  H I am a larg determined to me which mi faith effort to	R'S CERTIFI re classified and national ge quantity go to be econor nimizes the minimize m	CATION: I he, packed, mail government i enerator, I ce micelly practic by waste generator waste generator.	nel Information  preby declare the riced, and labele regulations.  Tiffy that I have table and that I ration and selection and s	at the contents ed, and are in a a program in p have selected human health a i the best wasf	of this consignment of the consignment of the practicable in and the environment of the management me	ent are fully are per condition and nethod of tree	d accur for tran toxicity itment,	ately describe sport by high of waste gene storage, or di	d.	proper tiling to as the degree entity ava we made ord.
16.	Special Hand  GENERATOR name and ar international  H I am a larg determined to me which mi faith effort to	R'S CERTIFI e classified and national go be econor nimizes the minimize m	CATION: I he, packed, mail government if enerator, I ce micelly practic by waste generator of Receivant of Re	nel Information  preby declare the riced, and labele regulations.  Tilify that I have table and that I ration and selection and selection and selection of Materials.	at the contents at the contents ad, and are in a a program in p have selected human health a 1 the best wasfe	of this consignment of the practicable in the practicable in and the environment mental in the practicable in the practicable in the practicable in the environment mental in the practicable in the practi	ent are fully are per condition and nethod of tree	d accur for tran toxicity stment, a amal vallable	ately describe sport by high of waste gene storage, or di- quantity gene to pre and the	d.	proper siling to appear the degree entity available ord.
16.	Special Hand  GENERATOR name and as international H I am a large determined is me which mi faith effort to ted/Typed Na  Transporter 1	R'S CERTIFI e classified and national go be econor nimizes the minimize m	CATION: I he, packed, mail government if enerator, I ce micelly practic by waste generator of Receivant of Re	nel Information  preby declare the riced, and labele regulations.  Tiffy that I have table and that I ration and selection and s	at the contents at the contents ad, and are in a a program in p have selected human health a 1 the best wasfe	of this consignment of the consignment of the practicable in and the environment of the management me	ent are fully are per condition and nethod of tree	d accur for tran toxicity stment, a amal vallable	ately describe sport by high of waste gene storage, or di- quantity gene to pre and the	d.	of proper siling to applie degree entity avaive made ord.  Month & Mon
16. Print	Special Hand  GENERATOR name and as international if I am a large determined is me which missish effort to ted/Typed Na  Transporter 1  lad/Typed Na  My A V	R'S CERTIFI e classified and national go be econor nimizes the minimize m  Acknowledge	CATION: I he, packed, mail government i encerator, I ce micelly practic present and f y waste gener	nel Information  preby declare the riced, and labele regulations.  Tilify that I have table and that I ration and selection and selection and selection of Materials.	at the contents at the contents ad, and are in a a program in p have selected human health a 1 the best wasfe	of this consignment of the practicable in the practicable in and the environment mental in the practicable in the practicable in the practicable in the environment mental in the practicable in the practi	ent are fully are per condition and nethod of tree	d accur for tran toxicity stment, a amal vallable	ately describe sport by high of waste gene storage, or di	d.	proper siling to appear the degree entity available ord.
16. Print 17. Print	Special Hand  GENERATOR name and as international if I am a large determined is me which missish effort to ted/Typed Na  Transporter 1  lad/Typed Na  My A V	R'S CERTIFI e classified and national ge quantity g to be econor nimizes the o minimize m  Acknowledge me Acknowledge	CATION: I he, packed, mail government i encerator, I ce micelly practic present and f y waste gener	nel information  preby declare the rked, and labele regulations.  rifly that I have table and that I buture threat to ration and selection and	at the contents od, and are in a a program in p have selected human health a t the best wasf	of this consignment of the practicable in the practicable in and the environment mental in the practicable in the practicable in the practicable in the environment mental in the practicable in the practi	ent are fully are per condition and nethod of tree	d accur for tran toxicity stment, a amal vallable	ately describe sport by high of waste gene storage, or di- quantity gene to pre and the	d.  d above by way accord arated to the spound comparator, I had to I can afford	proper : ling to as the degree entity ava we made ord.  Month E
16. Print 17. Print	Special Hand  GENERATOI name and ar international  H I am a lare determined t me which mi faith effort to ted/Typed Na  Transporter 1 ted/Typed Na  Transporter 2	R'S CERTIFI e classified and national ge quantity g to be econor nimizes the o minimize m  Acknowledge me Acknowledge	CATION: I he, packed, mail government i encerator, I ce micelly practic present and f y waste gener	nel information  preby declare the rked, and labele regulations.  rifly that I have table and that I buture threat to ration and selection and	at the contents od, and are in a a program in p have selected human health a t the best wasf	of this consignment of the practicable in the practicable in and the environment in management menture.	ent are fully are per condition and nethod of tree	d accur for tran toxicity stment, a amal vallable	ately describe sport by high of waste gene storage, or di- quantity gene to pre and the	d.  d above by way accord arated to the spound comparator, I had to I can afford	of proper siling to applie degree entity avaive made ord.  Month & Mon
16. Print 17. Print 18.	Special Hand  GENERATOI name and ar international  H I am a lare determined t me which mi faith effort to ted/Typed Na  Transporter 1 ted/Typed Na  Transporter 2	R'S CERTIFI e classified and national ge quantity go to be econor nimizes the minimize m  Acknowledge me  Acknowledge	CATION: I he, packed, mail government is enerator, I ce present and fly waste generator of Receive and the comment of Receive and	nel information  preby declare the rked, and labele regulations.  rifly that I have table and that I buture threat to ration and selection and	at the contents od, and are in a a program in p have selected human health a t the best wasf	of this consignment of the practicable in the practicable in and the environment in management menture.	ent are fully are per condition and nethod of tree	d accur for tran toxicity stment, a amal vallable	ately describe aport by high of waste gene storage, or dis quantity gene to pre and the	d.  d above by way accord arated to the spound comparator, I had to I can afford	proper : ling to as the degree entity ava we made ord.  Month E
16. Print 17. Print 18.	Special Hand  GENERATOR name and ar international determined is me which mi faith effort to ted/Typed Na  Transporter 1 ted/Typed Na  Transporter 2 ted/Typed Na	R'S CERTIFI e classified and national ge quantity go to be econor nimizes the minimize m  Acknowledge me  Acknowledge	CATION: I he, packed, mail government is enerator, I ce present and fly waste generator of Receive and the comment of Receive and	nel information  preby declare the rked, and labele regulations.  rifly that I have table and that I buture threat to ration and selection and	at the contents od, and are in a a program in p have selected human health a t the best wasf	of this consignment of the practicable in the practicable in and the environment in management menture.	ent are fully are per condition and nethod of tree	d accur for tran toxicity stment, a amal vallable	ately describe aport by high of waste gene storage, or dis quantity gene to pre and the	d.  d above by way accord arated to the spound comparator, I had to I can afford	proper : ling to as the degree entity ava we made ord.  Month E
16. Print 17. Print 18.	Special Hand  GENERATOR name and ar international determined is me which mi faith effort to ted/Typed Na  Transporter 1 ted/Typed Na  Transporter 2 ted/Typed Na	R'S CERTIFI e classified and national ge quantity go to be econor nimizes the minimize m  Acknowledge me  Acknowledge	CATION: I he, packed, mail government is enerator, I ce present and fly waste generator of Receive and the comment of Receive and	nel information  preby declare the rked, and labele regulations.  rifly that I have table and that I buture threat to ration and selection and	at the contents od, and are in a a program in p have selected human health a t the best wasf	of this consignment of the practicable in the practicable in and the environment in management menture.	ent are fully are per condition and nethod of tree	d accur for tran toxicity stment, a amal vallable	ately describe aport by high of waste genestorage, or disquantly geneto pro and the	d.  d above by way accord arated to the spound comparator, I had to I can afford	proper : ling to as the degree entity ava we made ord.  Month E
16. Print 17. Print 18. Print	Special Hand  GENERATOR name and as international if I am a large determined if it is international if I am a large determined if it is international if I am a large determined if it is international internationa	R'S CERTIFI e classified and national are quantity g o be econor nimizes the o minimize m  Acknowledge me Acknowledge me ndication Spa	CATION: I he packed, mail government of encading practic present and figures a	nel information  preby declare the fixed, and labele regulations.  If if the fixed to it is the fixed and that is uture threat to it ation and select the fixed fi	at the contents at the contents at a program in p have selected human health at the best wasfe  Sign  Sign	of this consignment respects in pro- lace to reduce the practicable in and the environment in management menture.	ent are fully are oper condition entered of tree of the operation of tree of the operation	d accur for tran toxicity itment, a smal vallable	ately describe aport by high of waste genestorage, or disquantly geneto pri and the	d.  d above by way accord arated to the spound comparator, I had to I can afford	proper : ling to as the degree entity ava we made ord.  Month E
16. Print 17. Print 18. Print 20.	Special Hand  GENERATOR name and are international  H I am a larg determined to me which mi faith effort to tgd/Typad Na  Transporter 1 tgd/Typad Na  A A A  Transporter 2 ed/Typed Na  Discrepancy is	R'S CERTIFI re classified and national and quantity g to be econor nimizes the or minimize m  Acknowledge me  Acknowledge me  Acknowledge me  or Operator	CATION: I he packed, mail government of encading practic present and figures a	nel information  preby declare the fixed, and labele regulations.  If if the fixed to interest to inte	at the contents at the contents at a program in p have selected human health at the best wasfe  Sign  Sign	of this consignment respects in pro- lace to reduce the practicable in and the environment in management menture.	ent are fully are oper condition entered of tree of the operation of tree of the operation	d accur for tran toxicity itment, a smal vallable	ately describe aport by high of waste genestorage, or disquantly geneto pri and the	d.  d above by way accord arated to the spound comparator, I had to I can afford	proper : ling to as the degree entity ava we made ord.  Month E
16. Print 17. Print 18. Print 19.	Special Hand  GENERATOR name and an international If I am a larg determined I me which mi faith effort to ted/Typed Na  Transporter 1 ted/Typed Na  Transporter 2 ted/Typed Na  Oiscrepancy is  Facility Owner ed/Typed Na	R'S CERTIFI Se classified and national pe quantity go be economized the principle of minimizer me Acknowledge me adication Spanic or Operator me	cation: I he packed, ma packed, ma packed, ma packed, ma povernment i enerator, I ce micelly practic present and f y waste generator Receivement of Receivem	receipt of hazar	at the contents ad, and are in a a program in p have selected human health a i the best wasf  Sign  Sign  Sign	of this consignment of the practicable in the practicable in and the environment in management menture.	ent are fully are oper condition entered of tree of the operation of tree of the operation	d accur for tran toxicity itment, a smal vallable	ately describe aport by high of waste genestorage, or disquantly geneto pri and the	d.	proper tiling to as the degree entity avance entity
16. Print 17. Print 18. Print 19.	Special Hand  GENERATOR name and are international  H I am a larg determined to me which mi faith effort to tgd/Typad Na  Transporter 1 tgd/Typad Na  A A A  Transporter 2 ed/Typed Na  Discrepancy is	R'S CERTIFI Se classified and national pe quantity go be economized the principle of minimizer me Acknowledge me adication Spanic or Operator me	CATION: I he packed, mail government of encading practic present and figures a	receipt of hazar	at the contents ad, and are in a a program in p have selected human health a i the best wasf  Sign  Sign  Sign	of this consignment respects in pro- lace to reduce the practicable in management mental respects in pro- lace to reduce the the practicable in management mental respects in the practical respects in pro- lace to reduce the reduce the practical respects in pro- lace to reduce the reduce	ent are fully are oper condition entered of tree of the operation of tree of the operation	d accur for tran toxicity itment, a smal vallable	ately describe aport by high of waste genestorage, or disquantly geneto pri and the	d.	proper : ling to as the degree entity ava we made ord.  Month E

1023

# CERT CATE Certified Services Company

Day or Night

Semco Uz7z	255 Parr Boulevard Richmond, California 94801	Broach (415) 235-1383/ Correction
For: Exickan Inc Tank No.(s.) Test Method: Visual / Gastect	Location: Richmond Da L 1314 SMPN Last Product: Wa	ste: <u>8-24-88</u> Time: <u>/432</u>
	nined that the tank(s) in the following list are in accordance with the designation. This certificate is based on conditions existing a alifications and instructions.	
Tank(s)		Condition
1000 gol. tank	Safe for fire	oxy 20.9%
		LEL 117.
Remarks:	(3)	
the undersigned. This permit is valid for 24	c changes affecting the gas-free condition of the above tanks, of hours if no physical or atmospheric changes occur.	or if in any doubt immediately stop all hot work and conte
materials in the atmosphere are within perrunder existing atmospheric conditions while Safe for Fire: Means that in the comparts limit; and that (b) in the judgment of the inspiral safe for the insp	ment or space so designated (a) The oxygen content of the atmonissable concentrations; and (c) In the judgment of the Inspector maintained as directed on the Inspector's certificate.  The concentration of flammable materials sector, the residues are not capable of producing a higher concentration on the Inspector's certificate, and further, (c) All adjusted.	or, the residues are not capable of producing toxic material in the atmosphere is below 10 per cent of the lower explosintration than permitted under existing atmospheric condition
the apread of fire, are satisfactorily inerted	edges receipt of this certificate and understands the conditions	ecessary by the inspector.
Panyagentative #tile	:	Manuar Towns

1025 4272 Semco

# CERTI. JATE

Certified Services Company 255 Parr Boulevard Richmond, California 94801

Day or Night Telephone (415) 235-1393

For: Erickson Inc. Jank No. Test Method: Visual Bastes	(s.) <u>1025</u>	Location:Rick	mond Date: 0.	-26-80		
Test Method: Visual Casted	ch 1314 S	MPN Leet	product: Un lead	-16	Time:	749
<u> </u>		Last	Froduct: <u>Dri /ec.d.</u>	<u>ea Cosol</u>	We.	
	<u> </u>					<i>V</i>
This is to certify that I have personally det of each to be in accordance with its assi	ermined that the te	nk(s) in the following list are in				
of each to be in accordance with its assi is issued subject to compliance with all	gned designation.	This certificate is based on con	iccordance with the Ameri	ican Petroleum In	stitute and have f	ound the conditio
is issued subject to compliance with all	qualifications and	instructions.	one of the fill	e me mspection	nerein set forth w	as completed an
Tank(s)	\					
- Talikio)	`			Condition	•	
1-550 gal. fank					4	
1-550 gal. fank	<u> </u>	Safe for Fire	· · · · · · · · · · · · · · · · · · ·	OXU 2	0.9%	
	<u> </u>			1	//	
		(60)			4	
		114		LEL		
		2 (4)				
	<del></del>	- lu				
Remarks:	<del></del>	Last lat	<u> </u>			
ionaro.	۱: لا			<del></del>		
		(1)		_	•	
	11					
n the event of any physical or atmosphe	de channes effectiv	ng the one free condition of the				
n the event of any physical or atmosphe he undersigned. This permit is valid for	24 hours if no phy	rig the gas-free condition of the	e above tanks, or if in an	y doubt immedia	tely stoptall hot i	work and contact
			occui.	a. • •	A	, •
Standard Safety Designation:			· · · · · · · · · · · · · · · · · · ·			1
Safe for Men: Means that in the compa naterials in the atmosphere are within pe	rtment or space so	designated (a) The oxygen co	nient of the atmosphere is	e at least 10 E ac-		
naterials in the atmosphere are within pe under existing atmospheric conditions wh	rmissable concenti	rations; and (c) in the judgmen	t of the Inspector, the res	sidues ere not co	ceut by volume; t	and that (b) Toxic
inder existing atmospheric conditions who safe for Fire: Means that in the company	nile maintained as	directed on the inspector's ce	tificate.	nodes are not ca	nahie di biodriciu	ig toxic materials
				nosphere is below	10 per cent of the	e lower evolucius
ો દેવલ Dresence of fire and while maintains	d op directed on the	a facacata de la caracte	~ge. concentration (D	an bermilied five	er existing atmos	Dheric conditions
n the presence of fire and while maintaine he spread of fire, are satisfactorily inerte	d. or in the case o	e inspector a certificate, and fu if fuel tanks, have been troots	rther, (c) All adjacent spac	ces have either by	en cleaned suffic	ciently to prevent
		, and a continuous	as decined necessary t	oy the inspector.	:	
The undersigned representative acknow	viedges receipt of t	this certificate and understand	S the conditions and limit	tations and	ob it was	2
Silonidan		:	· ····································	CANONIS UNIGER WIN	CIT IL WAS ISSUED.	
epresentative Title		· · · · · · · · · · · · · · · · · · ·	_	1 14 au	w Tour	11
. 1757 <b>m</b>						<del></del>