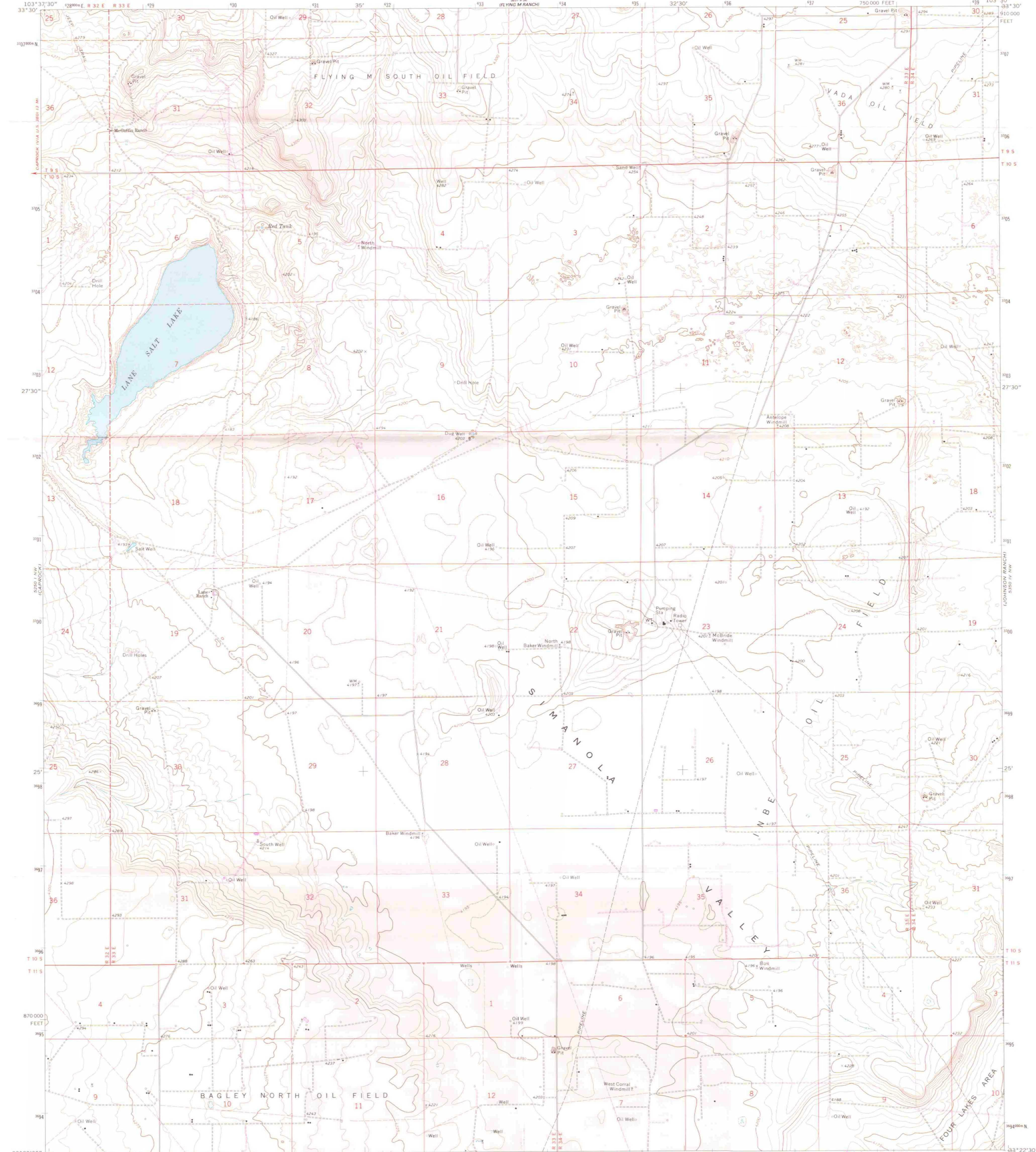


NM1 - 1

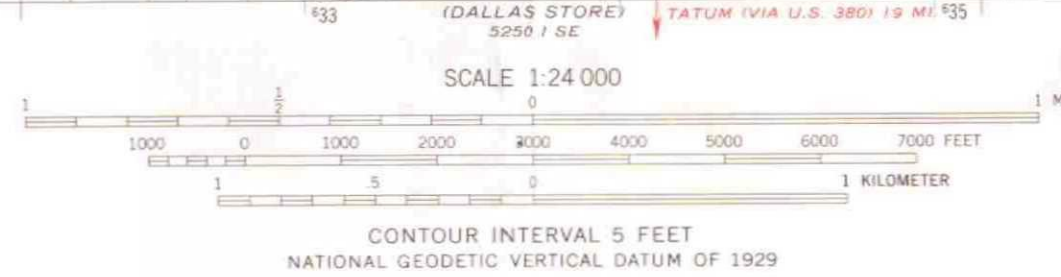
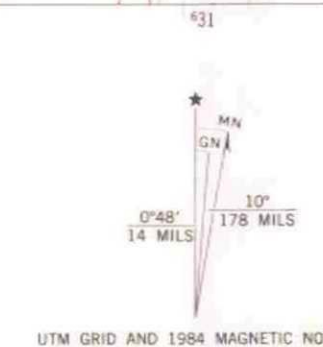
MONITORING REPORTS

YEAR(S):

1997



Mapped, edited, and published by the Geological Survey
Control by USGS and NOS/NOAA
Topography by photogrammetric methods from aerial
photographs taken 1971. Field checked 1973
Projection and 10,000-foot grid ticks: New Mexico
coordinate system, east zone (transverse Mercator)
1000-meter Universal Transverse Mercator grid ticks,
zone 13, shown in blue
1927 North American Datum
To place on the predicted North American Datum 1983
move the projection lines 7 meters south and
46 meters east as shown by dashed corner ticks
Fine red dashed lines indicate selected fence lines
Revisions shown in purple and woodland compiled from aerial
photographs taken 1982 and other sources. This information
not field checked. Map edited 1984



ROAD CLASSIFICATION
Primary highway, hard surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

LANE SALT LAKE, N. MEX.
33103-05-TF-024
1973
PHOTOREVISED 1984
DMA 5250 1 NE—SERIES V881

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225 OR RESTON, VIRGINIA 22092
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

TIPPERARY CORPORATION
Lane Salt Lake Pit Closure Project
Lea County, New Mexico
November 6, 1997



Executive Summary

On September 4th, 1997 Whole Earth Environmental took six soil samples within the main pit area of the Lane Salt Lake impoundment. Mr. Wayne Price of the Hobbs District Office of the New Mexico O.C.D and Mr. Bill Olson of the Sante Fe OCD were present and took discrete soil and water samples for analysis at their own laboratory.

The soil samples were obtained from a minimum 5' depth by means of a backhoe, pressed into sterile sample collection jars and immediately placed on ice. Similarly, the water samples were taken from the settling pond immediately adjacent to Pit # 3 and immediately refrigerated.

On September 5th, additional water samples were obtained from the playa region at a point approximately 1,000' down-gradient from the settling pond and at a depth of approximately 2' below ground surface. Messrs. Olson and Price were once again present and provided with discrete samples for State analysis. The Whole Earth Environmental samples were received at Environmental Labs of Texas on the morning of September 6th and were subsequently tested for BTEX, TPH and PAH.

All soil samples met or exceeded the New Mexico closure standards as defined in Unlined Surface Impoundment Closure Guidelines for BTEX and TPH. The pond water sample met or exceeded the relevant acceptance standards as defined within New Mexico Water Quality Control Commission Ground Water Standards.

As the State witnessed and verified test results meet the specified closure guidelines, there should be no need for further testing or monitoring of the site.

The previously untested down gradient water within the playa basin contained concentrations of benzene, naphthalene, and phenanthrene in excess of WQCC standards. The State may request that the playa region be tested on an annual or bi-annual basis to determine the rate of contaminant concentration decline through natural attenuation.

Soil Analytical

WINE 315A



Soil Analytical Results

This section contains the results of analytical testing for BTEX and TPH within the main pit area. The sample points are noted on the attached plat map.

The chain of custody form and sample container certificates are included within this section.

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL
ATTN: MR. MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 1-281-646-8996

Receiving Date: 09/08/97
Sample Type: SOIL
Project: TIPPERARY
Project Location: NONE GIVEN

Analysis Date: 09/10/97/
Sampling Date: 09/04/97, 08/03/97
Sample Condition: Intact/ice

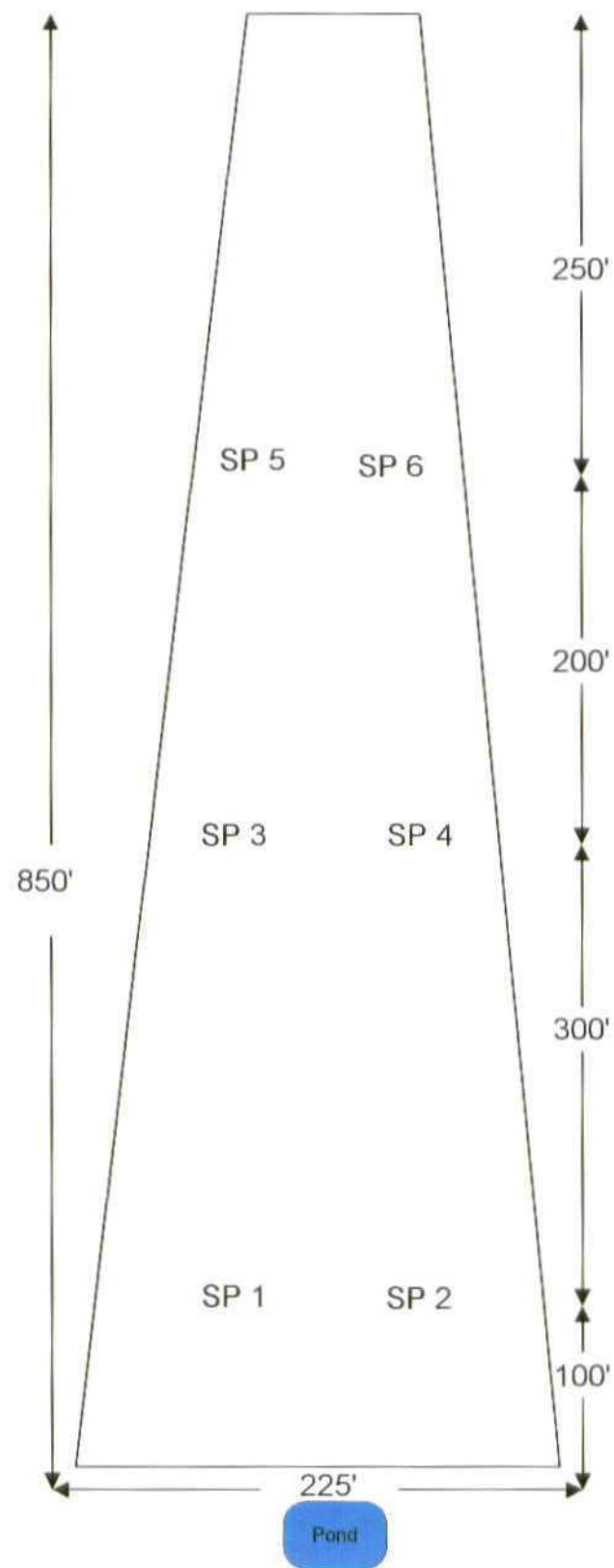
ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	DRO (C10-C28) mg/kg
12490	LSL #1 @ 5'	0.115	0.524	0.304	0.742	0.368	23
12491	LSL #2 @ 5'	2.713	3.164	4.151	6.400	3.158	785
12492	LSL #3 @ 5'	<100	<100	<100	0.150	<100	<10
12493	LSL #4 @ 5'	<100	<100	<100	<100	<100	<10
12494	LSL #5 @ 5'	<100	1.745	0.571	3.302	2.111	1,185
12495	LSL #0 @ 5'	<100	<100	<100	0.211	0.164	148

% IA	102	103	101	102	104	100
% EA	104	104	104	103	103	104
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<10

METHODS: SW 846-8020, 5030, 8015m DRO


Michael R. Fowler

9-10-97
Date



**Lane Salt Lake
Final Sampling
Locations**

Environmental Lab of Texas, Inc. 12600 West 1-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Phone #:

FAX #:

Company Name & Address:

Tipperary

Project #:

Project Name:

Project Location:

Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE	TIME
12485	Sat. 4 #9	3		X							X			9/6	
12486	NBF #8	3		X							X			9/6	
12487	Vera #5	3		X							X			9/5	
12488	Mabe MW #3	2		X							X			9/5	
12489	Mable MW #4	2		X							X			9/5	
12490	LSL #1 @ 5'	1			X						X			9/4	2:37
12491	LSL #2 @ 5'	1			X						X			9/4	
12492	LSL #3 @ 5'	1			X						X			9/4	
12493	LSL #4 @ 5'	1			X						X			9/4	
12494	LSL #5 @ 5'	1			X						X			9/4	
12495	LSL #6 @ 5'	1			X						X			9/4	

BTEX 8020/5030

TPH 8015 A1

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

TDS

RCI

PAH

X Ions/Cation

ANALYSIS REQUEST

Relinquished by:

Date:

Time:

Received by:

REMARKS

* 12487 not enough sample

Relinquished by:

Date:

Time:

Received by:

Relinquished by:

Date:

Time:

Received by Laboratory:

The enclosed containers have been chemically cleaned by using the specified USEPA cleaning procedures for low level chemical analysis. ESS containers meet and exceed the required detection limits established by the USEPA in SPECIFICATIONS AND GUIDANCE FOR CONTAMINANT-FREE SAMPLE CONTAINERS.

EXTRACTABLE ORGANIC COMPOUNDS

Analyte	Quantitation Limit (ug/L)								
Pesticides / PCBs	Alpha-BHC	<0.01	Aroclor-1232	<0.20	Hexachlorobutadiene	<5	4-Bromophenyl-Phenylether	<5	
	Beta-BHC	<0.01	Aroclor-1242	<0.20	4-Chloro-3-Methylphenol	<5	Hexachlorobenzene	<5	
	Delta-BHC	<0.01	Aroclor-1248	<0.20	2-Methylnaphthalene	<5	Pentachlorophenol	<20	
	Gamma-BHC (Lindane)	<0.01	Aroclor-1254	<0.20	Hexachlorocyclopentadiene	<5	Phenanthrene	<5	
	Heptachlor	<0.01	Aroclor-1260	<0.20	2,4,6-Trichlorophenol	<5	Anthracene	<5	
	Aldrin	<0.01	Aroclor-1262	<0.20	2,4,5-Trichlorophenol	<20	Di-n-Butylphthalate	<5	
	Heptachlor Epoxide	<0.01	Aroclor-1268	<0.20	1,2-Diphenylhydrazine	<5	Fluoranthene	<5	
	Endosulfan I	<0.01			Carbazole	<5	Pyrene	<5	
	Dieldrin	<0.02	Semivolatiles		2-Chloronaphthalene	<5	Butylbenzylphthalate	<5	
	4,4'-DDE	<0.02		Phenol	<5	2-Nitroaniline	<20	1,2'-Dichlorobenzene	<5
	Endrin	<0.02		bis-(2-Chloroethyl) ether	<5	Dimethylphthalate	<5	1,3'-Dichlorobenzene	<5
	Endosulfan II	<0.02		bis-(2-Chloroisopropyl) ether	<5	Acenaphthylene	<5	1,4'-Dichlorobenzene	<5
	4,4' DDD	<0.02		2-Chlorophenol	<5	2,6-Dinitrotoluene	<5	3,3'-Dichlorobenzidine	<5
	Endosulfan Sulfate	<0.02		2-Methylphenol	<5	3-Nitroaniline	<20	Benzo[a]anthracene	<5
	4,4'-DDT	<0.02		2,2'-Oxybis(1-Chloropropane)	<5	Acenaphthene	<5	Chrysene	<5
	Methoxychlor	<0.10		4-Methylphenol	<5	2,4-Dinitrophenol	<20	bis-(2-Ethylhexyl) Phthalate	<5
	Endrin Ketone	<0.02		N-Nitroso-di-n-propylamine	<5	4-Nitrophenol	<20	Di-n-Octylphthalate	<5
	Endrin Aldehyde	<0.02		Hexachloroethane	<5	Dibenzofuran	<5	Benzo[b]fluoranthene	<5
	Alpha-Chlordane	<0.01		Nitrobenzene	<5	2,4-Dinitrotoluene	<5	Benzo[k]fluoranthene	<5
	Gamma-Chlordane	<0.01		Isophorone	<5	Diethylphthalate	<5	Benzo[a]pyrene	<5
	Toxaphene	<0.1		2-Nitrophenol	<5	4-Chlorophenyl-Phenylether	<5	Indeno[1,2,3-cd]pyrene	<5
Aroclor-1016	<0.20	2,4-Dimethylphenol		<5	Fluorene	<5	Dibenz[a,h]anthracene	<5	
Aroclor-1221	<0.20	bis-(2-Chloroethoxy) methane		<5	4-Nitroaniline	<20	Benzo[g,h,i]perylene	<5	
		2,4-Dichlorophenol		<5	2,6-Dinitro-2-Methylphenol	<20	Benzoic Acid	<20	
		1,2,4-Trichlorobenzene		<5	N-Nitrosodiphenylamine	<5	Benzyl Alcohol	<5	
		Naphthalene		<5	N-Nitrosodimethylamine	<5			
		4-Chloroaniline		<5					

PURGEABLE VOLATILE ORGANIC COMPOUNDS

Analyte	Quantitation Limit (ug/L)	2-Chlorotoluene	<1	1,3-Dichloropropane	<1	1,2,3-Trichlorobenzene	<1
		4-Chlorotoluene	<1	2,2-Dichloropropane	<1	1,2,4-Trichlorobenzene	<1
		2,4-Chlorotoluene	<1	1,1-Dichloropropene	<1	1,1,1-Trichloroethane	<1
		Chloroform	<1	cis-1,3-Dichloropropene	<1	1,1,2-Trichloroethane	<1
		Dibromomethane	<1	trans-1,3-Dichloropropene	<1	Trichloroethene	<1
		1,2-Dibromo-3-Chloropropane	<1	Ethylbenzene	<1	Trichlorofluoromethane	<1
		Dibromochloromethane	<1	2-Hexanone	<5	Trichlorotrifluoroethane	<1
		1,2-Dibromoethane (EDB)	<1	Hexachlorobutadiene	<1	1,2,3-Trichloropropane	<1
		Bromodichloromethane	<1	Isopropylbenzene	<1	1,2,3-Trimethylbenzene	<1
		Bromomethane	<1	4-Isopropyltoluene	<1	1,2,4-Trimethylbenzene	<1
		n-Butylbenzene	<5			1,3,5-Trimethylbenzene	<1
		n-Butylbenzene	<1	Methylene Chloride	<2	Vinyl Acetate	<5
		sec-Butylbenzene	<1	Naphthalene	<1	Vinyl Chloride	<1
		tert-Butylbenzene	<1	Propylbenzene	<1	Methyl-Tert-Butyl-Ether	<1
		Carbon Tetrachloride	<1	Styrene	<1	4-Methyl-2-pentanone	<5
		Carbon Disulfide	<1	1,1,1,2-Tetrachloroethane	<1	o-xylene	<1
		Chlorobenzene	<1	1,1,2,2-Tetrachloroethane	<1	m-xylene (1)	<1
		Chloroethane	<1	Tetrachloroethene	<1	p-xylene (1)	<1
		Chloromethane	<1	Toluene	<1		

METALS, CYANIDE, & SULFIDE COMPOUNDS

Analyte	Detection Limit (ug/L.)	Cadmium	< 1	Manganese	< 10	Thallium	< 5
		Calcium	< 500	Mercury	< 0.2	Vanadium	< 10
		Calcium (HDPE)	< 100	Nickel	< 20	Zinc	< 10
Aluminum	< 80	Chromium	< 10	Potassium	< 750	Zinc (Amber HDPE)	< 500
Antimony	< 5	Cobalt	< 10	Potassium (HDPE)	< 100	Cyanide	< 10
Arsenic	< 2	Copper	< 10	Selenium	< 2	Fluoride	< 200
Barium	< 20	Iron	< 50	Silver	< 5	Nitrate + Nitrite	< 100
Barium (Amber HDPE)	< 50	Lead	< 2	Sodium	< 5000		
Beryllium	< 0.5	Magnesium	< 100	Sodium (HDPE)	< 100		



ENVIRONMENTAL SAMPLING SUPPLY

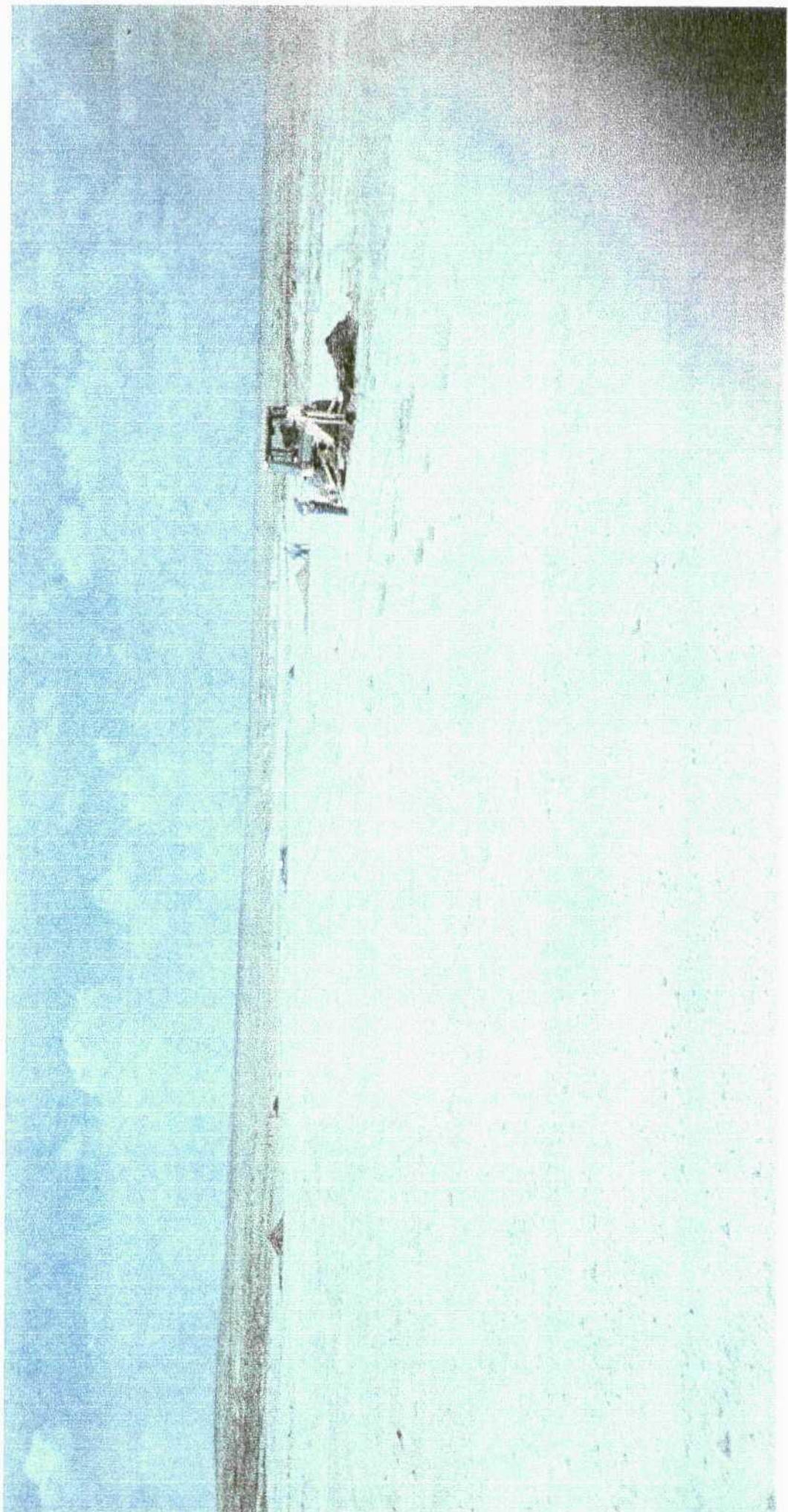
 Printed on recycled paper with soy ink

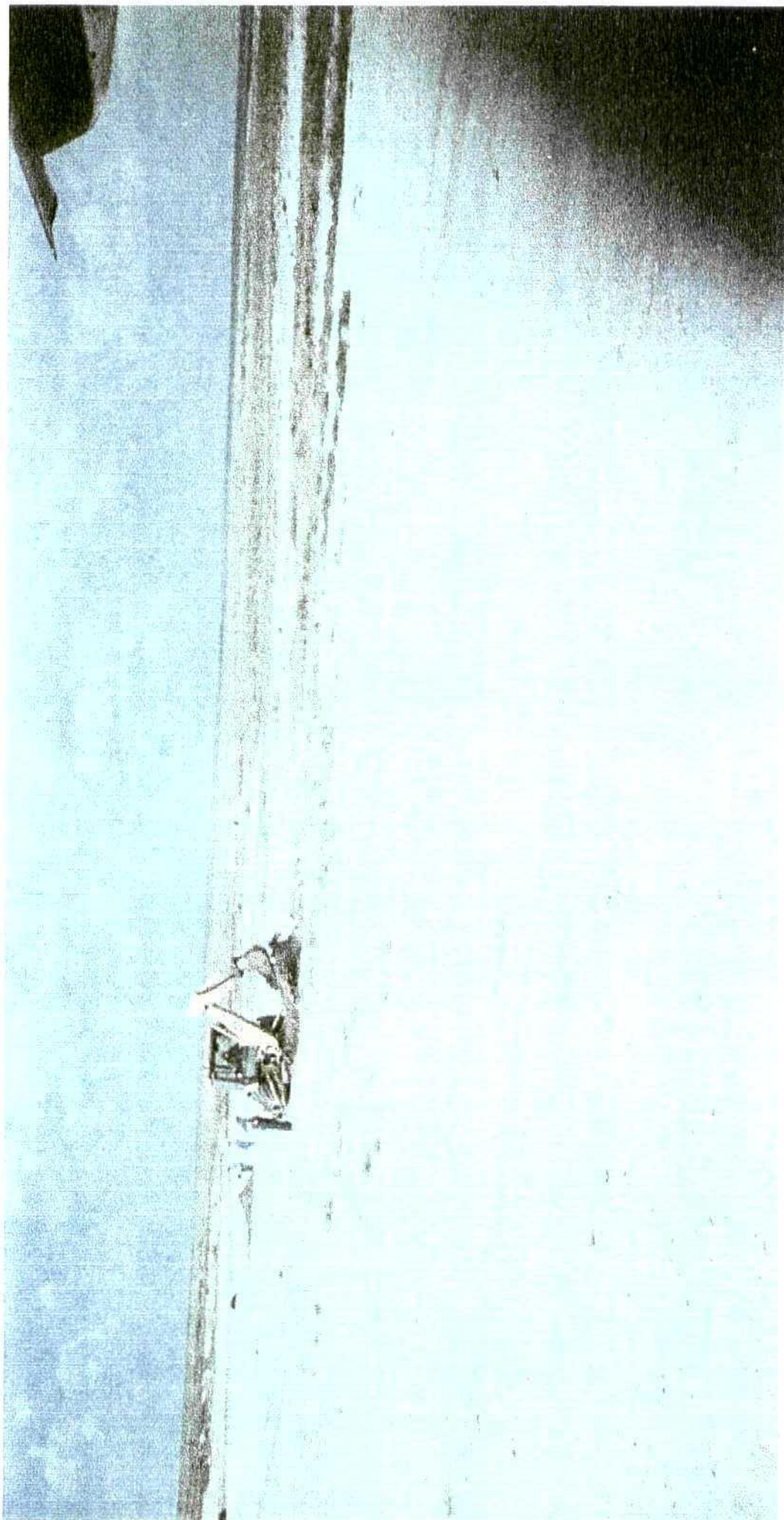
"We sell experience with every container."

053097

For information on our
cleaning & monitoring
procedures please call
800-233-8425









Water Analytical

WILLIAMS



Water Analytical Results

This section contains the results of analytical testing for BTEX and PAH within the pond and down gradient playa valley.

The chain of custody form and sample container certificates are included within this section.

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL
ATTN: MR. MIKE GRIFFIN
19608 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 1-281-646-8996

Receiving Date: 09/08/97
Sample Type: WATER
Project: TIPPERARY
Project Location: NONE GIVEN

Analysis Date: 09/11/97
Sampling Date: 09/04/97, 08/04/97
Sample Condition: Intact/Ice

ELT#	FIELD CODE	BENZENE mg/l	TOLUENE mg/l	ETHYLBENZENE mg/l	m,p-XYLENE mg/l	o-XYLENE mg/l
12479	LSL DG	1.115	0.063	0.076	0.244	0.162
12480	POND LSL	<.001	<.001	<.001	<.001	<.001

% IA	95	95	98	94	95
% EA	91	92	93	91	92
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8020, 5030


Michael R. Fowler

9-12-97
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL
ATTN: MR. MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8990

Receiving Date: 09/08/97
Sample Type: WATER
Project Location: TATUM, NM
Project Name: TIPPERARY

Analysis Date: 10/01/97
Sampling Date: 09/04/97
Sample Condition: Intact/Cool

Field Code: POND LSL

EPA SW846 8270 (mg/L)	REPORT LIMIT	ELT# 12480	% D	%IA
Naphthalene	0.02	ND	5	95
Acenaphthylene	0.02	ND	4	96
Acenaphthene	0.02	ND	5	95
Fluorene	0.02	ND	6	93
Phenanthrene	0.02	ND	6	94
Anthracene	0.02	ND	4	95
Fluoranthene	0.02	ND	14	86
Pyrene	0.02	ND	0	100
Benzo[a]anthracene	0.02	ND	2	98
Chrysene	0.02	ND	1	100
Benzo[b]fluoranthene	0.02	ND	2	98
Benzo[k]fluoranthene	0.02	ND	19	119
Benzo[a]pyrene	0.02	ND	2	98
Indeno[1,2,3-cd]pyrene	0.02	ND	3	102
Dibenz[a,h]anthracene	0.02	ND	6	106
Benzo[g,h,i]perylene	0.02	ND	4	104

% RECOVERY

Nitrobenzene-d₅ SURR
2-Fluorobiphenyl SURR
Terphenyl-d₁₄ SURR

70
68
83

ND= NOT DETECTED

Method: EPA SW 846 8270, 3550


Michael R. Fowler

10/14/97
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

WHOLE EARTH ENVIRONMENTAL
ATTN: MR. MIKE GRIFFIN
19606 SAN GABRIEL
HOUSTON, TEXAS 77084
FAX: 281-646-8998

Receiving Date: 09/08/97
Sample Type: WATER
Project Location: TATUM, NM
Project Name: TIPPERARY

Analysis Date: 10/01/97
Sampling Date: 09/05/97
Sample Condition: Intact/Cool

Field Code: LSL DG

EPA SW846 8270 (mg/L)	REPORT LIMIT	EIT# 12479	% D	%A
Naphthalene	0.1	0.192	5	95
Acenaphthylene	0.1	ND	4	98
Acenaphthene	0.1	ND	5	95
Fluorene	0.1	ND	6	93
Phenanthrene	0.1	0.116	6	94
Anthracene	0.1	ND	4	95
Fluoranthene	0.1	ND	14	86
Pyrene	0.1	ND	0	100
Benzo[a]anthracene	0.1	ND	2	98
Chrysene	0.1	ND	1	100
Benzo[b]fluoranthene	0.1	ND	2	98
Benzo[k]fluoranthene	0.1	ND	19	119
Benzo[a]pyrene	0.1	ND	2	98
Indeno[1,2,3-cd]pyrene	0.1	ND	3	102
Dibenz[a,h]anthracene	0.1	ND	6	106
Benzo[g,h,i]perylene	0.1	ND	4	104

% RECOVERY

Nitrobenzene-dr SURR
2-Fluorobiphenyl SURR
Terphenyl-d14 SURR

78
83
77

ND= NOT DETECTED

Method: EPA SW 846 8270, 3550


Michael R. Fowler

10-14-97
Date

Environmental Lab of Texas, Inc. 12400 West 1-20 East Odessa, Texas 79763 (915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Phone #:

FAX #:

ANALYSIS REQUEST

Company Name & Address:

Tipperary

Project #:

Project Name:

Project Location:

Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE	TIME
12474	Iva Com	1		X							X			9/5	
12475	Iva Com MW #1	2		X							X			9/5	
12476	Iva Com MW #2	2		X							X			9/5	
12477	Iva Com SW	3		X							X			9/5	
12478	GS #12	3		X							X			9/6	
12479	LSL DG	3		X							X			9/5	
12480	Pond LSL	3		X							X			9/4	
12481	Bell #4	3		X							X			9/6	
12482	NBN #7	3		X							X			9/6	
12483	Sonic 1 #10	3		X							X			9/6	
12484	Sonic A #11	3		X							X			9/6	

BTEX 8020/5030

TPH 418.1

TCLP Metals Ag As Ba Cd Cr Pb Hg Sn

Total Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

TDS

RCI

PAH

Ions/Cations

VSA

REMARKS

Received by:

Time:

Date:

Relinquished by:

Date:

Received by:

Time:

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Relinquished by:

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PRECLEANED CERTIFIED

Certificate of Compliance

The enclosed containers have been chemically cleaned by using the specified USEPA cleaning procedures for low level chemical analysis. ESS containers meet and exceed the required detection limits established by the USEPA in SPECIFICATIONS AND GUIDANCE FOR CONTAMINANT-FREE SAMPLE CONTAINERS.

EXTRACTABLE ORGANIC COMPOUNDS

Analyte	Quantitation Limit (ug/L)				
Pesticides / PCBs		Aroclor-1232	< 0.20	Hexachlorobutadiene	< 5
Alpha-BHC	< 0.01	Aroclor-1242	< 0.20	4-Chloro-3-Methylphenol	< 5
Beta-BHC	< 0.01	Aroclor-1248	< 0.20	2-Methylnaphthalene	< 5
Delta-BHC	< 0.01	Aroclor-1254	< 0.20	Hexachlorocyclopentadiene	< 5
Gamma-BHC (Lindane)	< 0.01	Aroclor-1260	< 0.20	2,4,6-Trichlorophenol	< 5
Heptachlor	< 0.01	Aroclor-1262	< 0.20	2,4,5-Trichlorophenol	< 20
Aldrin	< 0.01	Aroclor-1268	< 0.20	1,2-Diphenylhydrazene	< 5
Heptachlor Epoxide	< 0.01	Semivolatiles		Carbazole	< 5
Endosulfan I	< 0.01	Phenol	< 5	2-Chloronaphthalene	< 5
Dieldrin	< 0.02	bis-(2-Chloroethyl) ether	< 5	2-Nitroaniline	< 20
4,4'-DDE	< 0.02	bis-(2-Chloroisopropyl) ether	< 5	Dimethylphthalate	< 5
Endrin	< 0.02	2-Chlorophenol	< 5	Acenaphthylene	< 5
Endosulfan II	< 0.02	2-Methylphenol	< 5	2,6-Dinitrotoluene	< 5
4,4'-DDD	< 0.02	2,2'-Oxybis-(1-Chloropropane)	< 5	3-Nitroaniline	< 20
Endosulfan Sulfate	< 0.02	4-Methylphenol	< 5	Acenaphthene	< 5
4,4'-DDT	< 0.02	N-Nitroso-di-n-propylamine	< 5	2,4-Dinitrophenol	< 20
Methoxychlor	< 0.10	Hexachloroethane	< 5	4-Nitrophenol	< 20
Endrin Ketone	< 0.02	Nitrobenzene	< 5	Dibenzofuran	< 5
Endrin Aldehyde	< 0.02	Isophorone	< 5	2,4-Dinitrotoluene	< 5
Alpha-Chlordane	< 0.01	2-Nitrophenol	< 5	Diethylphthalate	< 5
Gamma-Chlordane	< 0.01	2,4-Dimethylphenol	< 5	4-Chlorophenyl-Phenyl ether	< 5
Toxaphene	< 1.0	bis-(2-Chloroethoxy) methane	< 5	Flourene	< 5
Aroclor-1016	< 0.20	2,4-Dichlorophenol	< 5	4-Nitroaniline	< 20
Aroclor-1221	< 0.20	1,2,4-Trichlorobenzene	< 5	4,6-Dinitro-2-Methylphenol	< 20
		Naphthalene	< 5	N-Nitrosodiphenylamine	< 5
		4-Chloroaniline	< 5	N-Nitrosodimethylamine	< 5

PURGEABLE VOLATILE ORGANIC COMPOUNDS

Analyte	Quantitation Limit (ug/L)				
Acetone	< 5	2-Chlorotoluene	< 1	1,3-Dichloropropane	< 1
Benzene	< 1	4-Chlorotoluene	< 1	2,2-Dichloropropane	< 1
Bromotorm	< 1	2,4-Chlorotoluene	< 1	1,1-Dichloropropane	< 1
Bromobenzene	< 1	Chloroform	< 1	cis-1,3-Dichloropropene	< 1
Bromochloromethane	< 1	Dibromomethane	< 1	trans-1,3-Dichloropropene	< 1
Bromedichloromethane	< 1	1,2-Dibro-3-Chloropropane	< 1	Ethylbenzene	< 1
Bromomethane	< 1	Dibromochloromethane	< 1	2-Hexanone	< 5
n-Butylbenzene	< 5	1,2-Dibromoethane (EDB)	< 1	Hexachlorobutadiene	< 1
n-Butylbenzene	< 1	1,2-Dienk-robenzene	< 1	Isopropylbenzene	< 1
sec-Butylbenzene	< 1	1,3-Dichlorobenzene	< 1	4-Isopropyltoluene	< 1
tert-Butylbenzene	< 1	1,4-Dichlorobenzene	< 1	Methylene Chloride	< 2
Carbon Tetrachloride	< 1	Dichlorodifluoromethane	< 1	Naphthalene	< 1
Carbon Disulfide	< 1	1,1-Dichloroethane	< 1	Propylbenzene	< 1
Chlorobenzene	< 1	1,2-Dichloroethane	< 1	Styrene	< 1
Chloroethane	< 1	1,1-Dichloroethene	< 1	1,1,1,2-Tetrachloroethane	< 1
Chloromethane	< 1	cis-1,2-Dichloroethene	< 1	1,1,2,2-Tetrachloroethane	< 1
		trans-1,2-Dichloroethene	< 1	Tetrachloroethene	< 1
		1,2-Dichloropropane	< 1	Toluene	< 1

METALS, CYANIDE, & SULFIDE COMPOUNDS

Analyte	Detection Limit (ug/L.)				
Aluminum	< 80	Cadmium	< 1	Manganese	< 10
Antimony	< 5	Calcium	< 500	Mercury	< 0.2
Arsenic	< 2	Calcium (HDPE)	< 100	Nickel	< 20
Barium	< 20	Chromium	< 10	Potassium	< 750
Barium (Amber HDPE)	< 50	Cobalt	< 10	Potassium (HDPE)	< 100
Beryllium	< 0.5	Copper	< 10	Selenium	< 2
		Iron	< 50	Silver	< 5
		Lead	< 2	Sodium	< 5000
		Magnesium	< 100	Sodium (HDPE)	< 100
				Thallium	< 5
				Vanadium	< 10
				Zinc	< 10
				Zinc (Amber HDPE)	< 500
				Cyanide	< 10
				Fluoride	< 200
				Nitrate+Nitrite	< 100



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Attachment I

New Mexico Water Quality Control Commission Ground Water Standards

A. Human Health Standards

Ground water shall meet the standards of Section A and B unless otherwise provided. If more than one water contaminant affecting human health is present, the toxic pollutant criteria of WQCC Section 1-101.UU. for the combination of contaminants, or the Human Health Standard of WQCC Section 3-103.A. for each contaminant shall apply, whichever is more stringent.

Arsenic (As) 0.1 mg/l
Barium (Ba) 1.0 mg/l
Cadmium (Cd) 0.01 mg/l
Chromium (Cr) 0.05 mg/l
Cyanide (CN) 0.2 mg/l
Fluoride (F) 1.6 mg/l
Lead (Pb) 0.05 mg/l
Total Mercury (Hg) 0.002 mg/l
Nitrate (NO₃ as N) 10.0 mg/l
Selenium (Se) 0.05 mg/l
Silver (Ag) 0.05 mg/l
Uranium (U) 5.0 mg/l
Radioactivity: Combined
Radium-226 & Radium-228 30.0 pCi/l
Benzene 0.01 mg/l
Polychlorinated biphenyls (PCB's) 0.001 mg/l
Toluene 0.75 mg/l
Carbon Tetrachloride 0.01 mg/l
1,2-Dichloroethane (EDC) 0.01 mg/l
1,1-Dichloroethylene (1, 1-DCE) 0.005 mg/l
1, 1,2,2-tetrachloroethylene (PCE) 0.02 mg/l
1, 1,2-trichloroethylene (TCE) 0.1 mg/l
ethylbenzene 0.75 mg/l
total xylenes 0.62 mg/l
methylene chloride 0.1 mg/l
chloroform 0.1 mg/l
1, 1 -dichloroethane 0.025 mg/l
ethylene dibromide (EDB) 0.0001 mg/l
1, 1, 1 -trichloroethane 0.06 mg/l
1, 1,2-trichloroethane 0.01 mg/l
1, 1,2,2-tetrachloroethane 0.01 mg/l
vinyl chloride 0.001 mg/l
PAH'S: total naphthalene plus
monomethylnaphthalenes 0.03 mg/l
benzo-a-pyrene 0.0007 mg/l

B. Other Standards for Domestic Water Supply

Chloride (Cl) 250. mg/l
Copper (Cu) 1.0 mg/l

Iron (Fe) 1.0 mg/l
Manganese (Mn) 0.2 mg/l
Phenols 0.005 mg/l
Sulfate (SO₄) 600. mg/l
Total Dissolved Solids (TDS) 1000. mg/l
Zinc (Zn) 10. mg/l
pH between 6 and 9

C. Standards for Irrigation Use

Ground water shall meet the standards of subsections A, B, and C unless otherwise provided.

Aluminum (Al) 5.0 mg/l
Boron (B) 0.75 mg/l
Cobalt (Co) 0.05 mg/l
Molybdenum (Mo) 1.0 mg/l
Nickel (Ni) 0.2 mg/l