NYSDEC ENVIRONMENTAL RESTORATION UNDERGROUND STORAGE TANKS

FOR THE

CITY OF ELMIRA
FORMER AMERICAN LAFRANCE SITE
100 ERIE STREET
ELMIRA, NEW YORK
SITE #B-00011-8

SUBMITTED TO:

NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION

SUBMITTED BY:

UNITED ENVIRONMENTAL GROUP, INC.

ENVIRONMENTAL CONSULTANTS
1738 PARKER ROAD, ELMIRA, NEW YORK 14905
PHONE: 607.731.0145 PHONE/FAX: 607.733.4610
EMAIL: geowetlands@aol.com

SEPTEMBER 2003

UNITED ENVIRONMENTAL GROUP, INC. ENVIRONMENTAL CONSULTANTS

October 15, 2003

Mr. Manmohan Mehta, P.E. NYSDEC – Region 8 Division of Hazardous Waste Remediation 6274 East Avon – Lima Road Avon, NY 14414 RECEIVED

OCT 1 6 2003

DERIHAZ WASTE REMED
REGION 8

RE: Underground Storage Tank Remediation

Former American LaFrance Brownfield Site

Site #B-00011-8

Dear Mr. Mehta:

Enclosed are three copies of the underground storage tank remediation for the former American LaFrance Brownfield site #B-00011-8.

As per our discussion an in accordance with the Record of Decision, a groundwater sample was obtained from the tank grave and analyzed for TAGM 4046 EPA 8270 compounds. There were no compounds detected in the sample indicating successful removal of the source and subsequent natural attenuation due to the age of the spill.

On behalf of the City of Elmira, we request that this issue be closed, as there is limited risk to human health and the environment.

Sinceredy,

Stephen G. Degerdon, PWS Environmental Scientist

Enclosures

C:\alf-ust\mehta-10-15-03.doc

1738 PARKER ROAD, ELMIRA, NEW YORK 14905 PHONE: 607.731.0145 PHONE/FAX: 607.733.4610 EMAIL: geowetlands@aol.com

UNDERGROUND STORAGE TANK REMEDIATION

FORMER AMERICAN LAFRANCE ELMIRA, NEW YORK

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I. EXECUTIVE SUMMARY

The United Environmental Group, Inc. has performed an underground storage tank (UST) remediation on the former American LaFrance Brownfields Site #B-00011-8 (see Figure 1). The UST remediation included removal and proper disposal of two ±12,000-gallon, #6-fuel oil UST's, contaminated soil, and 6,000-gallons of fuel oil/water from the tank grave (see Figure 2). Extensive site photos have been included in chronological order herein as Appendix A. Prior to the remedial activities, TCLP laboratory analyses were performed on the #6 fuel oil contaminated material as part of the Chemung County Landfill permit process (see Appendix B) for disposal of petroleum contaminated soil.

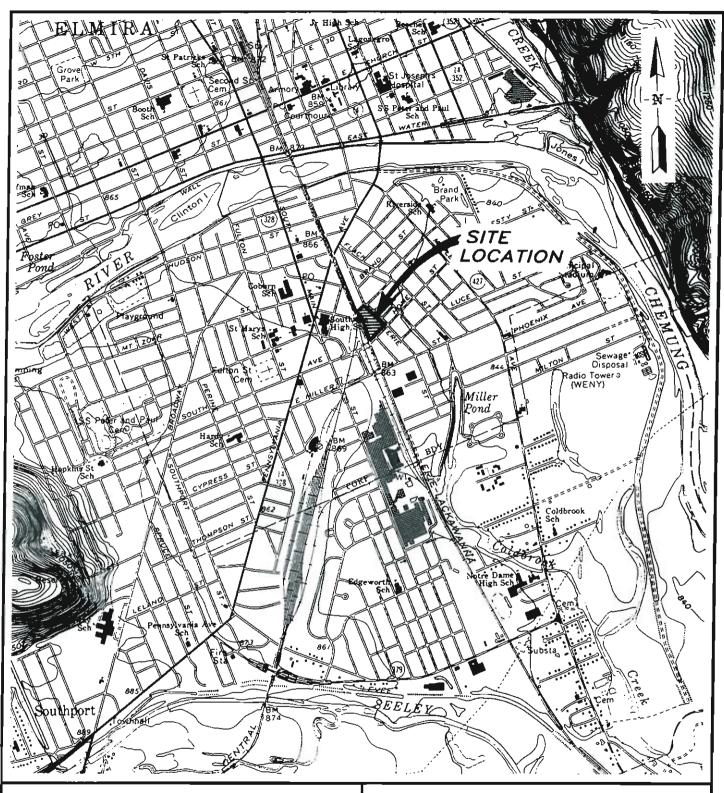
The remedial activities were conducted between May 15 and May 22, 2003. The Remedial Activities section details the remediation.

The on-site remedial activities to address the source of contamination included the following:

- 1. Removal of two #6 fuel oil underground storage tanks.
- 2. Disposal of approximately 8,000-gallons of #6 fuel oil and soil mix.
- 3. Excavation and disposal of 742 cubic yards (1113-tons) of contaminated soil.
- 4. Pumping and disposal of 5,116-gallons of purged groundwater.

The source of the subsurface site contamination has been excavated, pumped and properly disposed of in accordance with NYSDEC regulations. The groundwater laboratory results did not detect the presence of semi-volatile organics in the tank grave groundwater.

An extensive effort has been conducted to remove the source of on-site contamination in accordance with the Record of Decision (see **Appendix G**). The #6 fuel oil spill issue now poses limited threat to human health and the environment. The subject site use is limited to industrial and commercial development and no use of groundwater from on-site (per the deed restrictions as part of the Record of Decision). Therefore, natural attenuation is recommended for any remaining low-level fuel oil constituents remaining on the site.



AMERICAN LAFRANCE BROWNFIELDS SITE UST REMEDIATION

FORMER AMERICAN-LAFRANCE PROPERTY
TAX MAP # 99.12-2-1.1
ELMIRA, NEW YORK
SEPTEMBER 2003

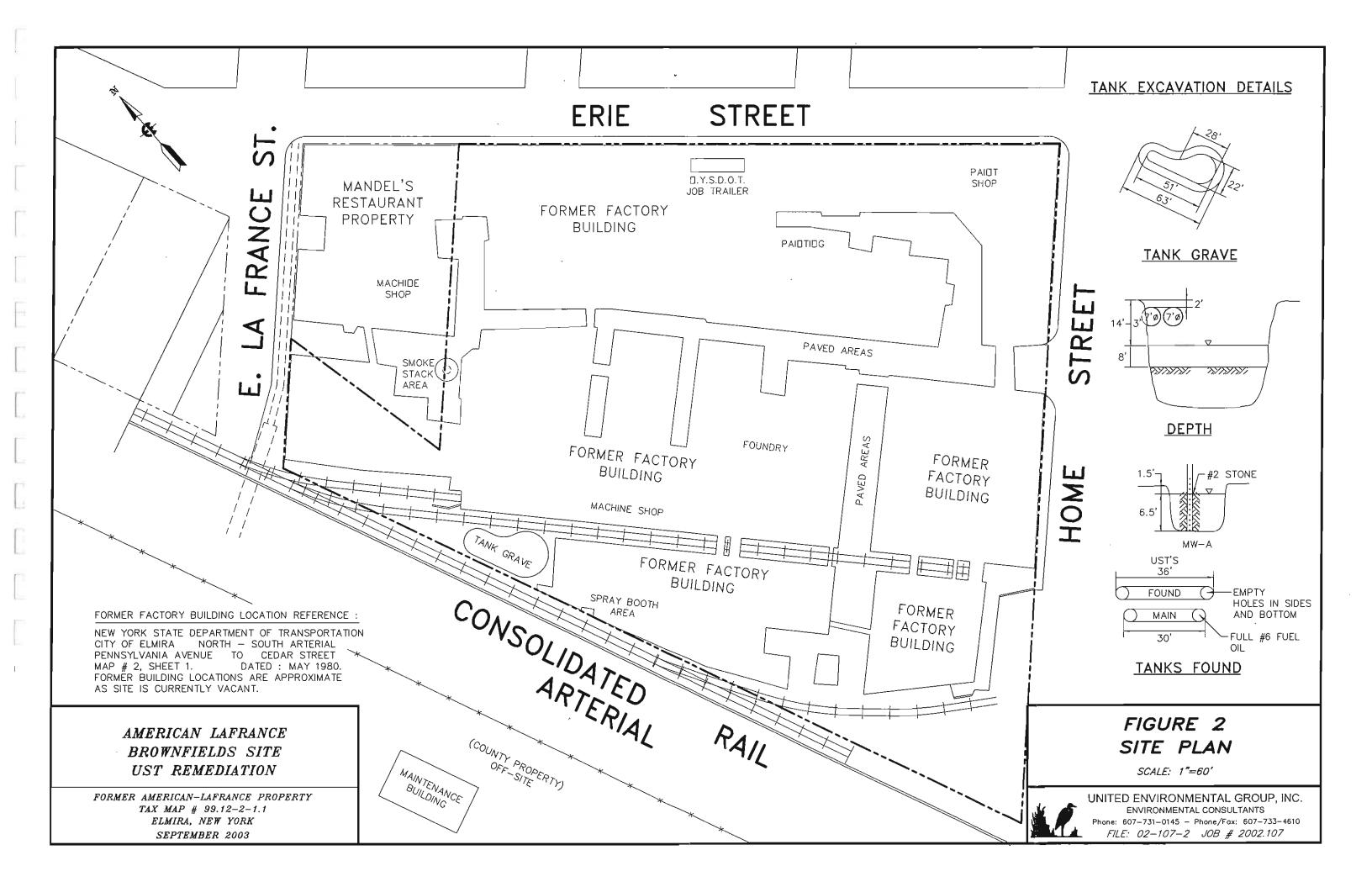
FIGURE 1 LOCATION MAP

NOT TO SCALE



UNITED ENVIRONMENTAL GROUP, INC. ENVIRONMENTAL CONSULTANTS

Phone: 607-731-0145 - Phone/Fax: 607-733-4610 FILE: 02-107-1.dwg JOB # 2002.107



Proper removal of the "poor mans" well is also recommended to prevent any new releases from reaching groundwater.

II. REMEDIAL ACTIVITIES

May 15 & 16, 2003:

Austin Excavating of Waverly, New York excavated two-feet of overburden from the abandoned 9,000-gallon #6 fuel oil UST. The existing hole in the top of the tank was enlarged to accommodate the excavator bucket. An estimated 8,000-gallons of #6 fuel oil and soil mix, and approximately 150-gallons of water was determined to be in the tank.

To reduce the potential for additional spillage or leakage of fuel oil from the tank, solidification of the tank contents took place inside the tank by adding clean bank-run gravel and sand to the tank contents and mixing with the excavator bucket. Fuel oil contaminated soil surrounding the tank was also utilized for solidification of the tank contents to reduce soil disposal quantities. The solidified #6 fuel oil was than loaded onto a plastic lined dump truck and transported to the Chemung County Landfill for proper disposal.

Upon excavation, removal, and disposal of contaminated soil surrounding the tank and most of the tank contents, the tank was removed from the ground. The tank was found to be an old riveted tank measuring seven-feet in diameter by thirty-feet in length. Rusted-out holes were observed in the sides and bottom of the tank. The tank was than cut open and cleaned.

Excavation of fuel oil contaminated soil was performed from the bottom and sides of the tank grave to remove the visible #6 fuel oil source. The remedial effort was located in close proximity to the Norfolk Southern railroad to the west. A sloped excavation was performed and the excavation did not proceed closer than twenty-five feet to the railroad so as not to jeopardize the structural integrity of the railroad. All contaminated soil (1113.05-tons total) was transported to the Chemung County Landfill on each day it was excavated (see **Appendix E**). The clean drill cuttings stored on site from the Brownfield Site Investigation were also disposed of with the tank grave contaminated soil. Contaminated soil was not staged on-site.

May 17, 2003:

No work was performed on Wednesday.

May 18 & 19, 2003:

During excavation of contaminated soil surrounding the removed tank, a second tank was discovered adjacent to the original tank and to the west. The second tank (10,000-gallons) was found to be an empty, abandoned riveted tank and measured seven-feet in diameter by thirty-six feet in length. Rusted-out holes were observed in the sides and bottom of the tank. This tank was removed, cut open, and cleaned.

Groundwater was encountered at a depth of approximately 14-feet. A #6 fuel oil sheen was observed on groundwater in the tank grave. Bails of straw were utilized to absorb the heaviest of the sheen. The fuel oil absorbed straw was removed from the surface of the water by the excavator and disposed of with the contaminated soil. A vac-truck supplied and operated by Gary Dyer Excavating, was utilized to skim remaining fuel oil from the water surface. Approximately 5,100-gallons of groundwater was purged from the excavation and properly disposed of by Dyer Excavating (see **Appendix D**). A new sheen did not return to the tank grave. Clear water was observed in the excavation upon settling.

May 22, 2003:

A "poor-mans" well was installed in the tank grave and designated MW-A. The location of the well corresponded to the area where the greatest contamination was observed from the original tank. The tank grave was excavated an additional depth of 6.5-feet. A 10-foot length of SCH-40 perforated pipe was utilized as the screen in groundwater. The perforated pipe was backfilled with #2 stone to approximately four-feet above groundwater elevation. A solid 10-foot section of SCH-40 was utilized above groundwater to the surface, and subsequently capped above grade.

Both tanks were transported by flatbed to Austin Excavation for proper disposal.

Contaminated soil disposal continued as the final site clean-up was performed. The site was subsequently backfilled with clean fill by the City of Elmira.

June 13, 2003:

The "poor mans" well MW-A was sampled at 16:00 hours. Three volumes of water were purged from the well prior to sampling. A groundwater sample was obtained and analyzed for NYSDEC TAGM 4046 EPA 8270 laboratory analysis (see **Appendix F**). All constituents tested were below the detection limits of <0.01 mg/l (see **Appendix C**).

APPENDIX A

SITE PHOTOS





APPENDIX B

TCLP LABORATORY RESULTS
#6 FUEL OIL CONTAMINATED SOIL

United Environmental Group, Inc.

Elmira, NY

Sample ID: Location:

TP-1

LSL Sample ID:

0303298-001

Sampled:

03/05/03 8:30

Sampled By: SD

Sample Matrix: SHW as Recd

Analytical Method Analyte				Prep Date	Analysis Date & Time		Analyst Initials
(5)	EPA 1311 TCLP Extraction						
	TCLP Non-Volatile Extraction				3/13/03	03:00	JRO
5)	EPA 1311 TCLP Z.H. Extraction						
٠,	TCLP Zero Headspace Extraction				3/13/03	03:00	JR
• .	-				5/15/65	05.00	V10
1)	EPA 6010 TCLP Metals			- 4	- /- 0 /0 -		
	Arsenic	<1	mg/l	3/17/03	3/19/03		PE
	Barium	<5 <0.5	mg/l	3/17/03	3/19/03 3/19/03		PE
	Cadmium Chromium	<0.3	mg/l	3/17/03 3/17/03	3/19/03		PE PE
	Lead	<1	mg/l mg/l	3/17/03	3/19/03		PE
	Selenium	<0.5	mg/l	3/17/03	3/19/03		PE
	Silver	<1	mg/l	3/17/03	3/19/03		PE
		**	mg.	3/1//03	5/15/05		1.0
)	EPA 7471 TCLP Mercury		_				
	Mercury	<0.002	mg/l	3/17/03	3/17/03		PE
9	EPA 8082 TCLP PCB's						
	Aroclor-1016	<2	ug/l	3/18/03	3/18/03		NJ
	Aroclor-1221	<2	ug/l	3/18/03	3/18/03		NJ
	Arocior-1232	<2	ug/l	3/18/03	3/18/03		, NJ
	Aroclor-1242	<2	ug/l	3/18/03	3/18/03		ŊJ
	Aroclor-1248	<2	ug/l	3/18/03	3/18/03		ŊJ
	Aroclor-1254	<2	ug/l	3/18/03	3/18/03		NJ
	Aroclor-1260	<2	ug/l	3/18/03	3/18/03		ŊJ
	Surrogate (DCB)	111	%R	3/18/03	3/18/03		NJ
ī)	EPA 8260B TCLP Volatiles						
	Acetone	<50	ug/l		3/14/03		PR
	Benzene	<10	ug/l		3/14/03		PR
	Bromodichloromethane	<10	ug/l		3/14/03		PR
	Bromoform	<10	ug/l		3/14/03		PR
	Bromomethane	<30	ug/l		3/14/03		PR
	2-Butanone (MEK)	<30	ug/l		3/14/03	-	PR
	Carbon disulfide	<10	ug/l		3/14/03		PR
	Carbon tetrachloride	<10	ug/l		3/14/03		PR
	Chlorobenzene	<10	ug/1		3/14/03		PR'
	Chloroethane	<10	ug/l		3/14/03		PR
	Chloroform	<10	ug/l		3/14/03		PR
	Chloromethane	<10	ug/l		3/14/03		PR
	Dibromochloromethane 1,1-Dichloroethane	<10	ug/l /l		3/14/03 3/14/03		PŔ
	1,1-Dictioroethane 1,2-Dichloroethane	<10 <10	ug/l		3/14/03		PR' PR'
	1,1-Dichloroethene	<10	ug/l ug/l		3/14/03		PR
	1,1-Dichloroethene, Total	<20	ug/l ug/l		3/14/03		PRV
	1,2-Dichloropropane	<10	ug/l ug/l		3/14/03		
	cis-1,3-Dichloropropene	<10	ug/l		3/14/03		PR
	trans-1,3-Dichloropropene	<10	ug/l		3/14/03		PR
	Ethyl benzene	<10	ug/l		3/14/03		PRV
	2-Hexanone	<30	ug/i		3/14/03		PRV
							Page 2 of

Life Science Laboratories, Inc.

Page 2 of 7

3/26/03

United Environmental Group, Inc.

Elmira, NY

Sample ID:

TP-1

LSL Sample ID:

0303298-001

Location:

Sampled:

03/05/03 8:30

Sampled By: SD

Sample Matrix: SHW as Recd

Anal	ytical Method	Result	Units	Prep Date	Analysis Date & Time	Analys Initial
	Analyte	Result	Units	Date	Date & Time	muai
) E	PA 8260B TCLP Volatiles	-20			2/14/02	PRV
	Methylene chloride	<30	ug/l		3/14/03	PR\ PR\
	4-Methyl-2-pentanone (MIBK)	<30	ug/l		3/14/03	PRV
	Styrene	<10	ug/l		3/14/03	PRV
	1,1,2,2-Tetrachloroethane	<10	ug/l		3/14/03 3/14/03	PR
	Tetrachloroethene	<10	ug/l		3/14/03	PR
	Toluene -	<10	ug/l		3/14/03	PR'
	1,1,1-Trichloroethane	<10	ug/l		3/14/03	PR
	1,1,2-Trichloroethane	<10	ug/l		3/14/03	PR
	Trichloroethene	<10	ug/l		3/14/03	PR
	Vinyl chloride	<10	ug/l			PR
	Xylenes (Total)	<30	ug/l		3/14/03	PR
	Surrogate (1,2-DCA-d4)	103	%R		3/14/03	PR
	Surrogate (Tol-d8)	100	%R		3/14/03	
	Surrogate (4-BFB)	105	%R		3/14/03	PR
E	PA 8270 TCLP B/N					
	Acenaphthene	<0.03	mg/l	3/14/03	3/14/03	N.
	Acenaphthylene	<0.03	mg/l	3/14/03	3/14/03	N.
	Anthracene	<0.03	mg/l	3/14/03	3/14/03	N.
	Benzo(a)anthracene	< 0.03	mg/l	3/14/03	3/14/03	N.
	Benzo(b)fluoranthene	<0.03	mg/l	3/14/03	3/14/03	N.
	Benzo(k)fluoranthene	< 0.03	mg/l	3/14/03	3/14/03	N.
	Benzo(ghi)perylene	< 0.03	mg/l	3/14/03	3/14/03	N.
	Benzo(a)pyrene	<0.03	mg/l	3/14/03	3/14/03	ŊJ
	4-Bromophenyl-phenylether	<0.03	mg/l	3/14/03	3/14/03	N.
	Butylbenzylphthalate	<0.03	mg/l	3/14/03	3/14/03	N.
	Carbazole	< 0.03	mg/l	3/14/03	3/14/03	N.
	4-Chloroaniline	< 0.03	mg/l	3/14/03	3/14/03	N.
	bis(2-Chloroethoxy)methane	< 0.03	mg/l	3/14/03	3/14/03	N.
	bis(2-Chloroethyl)ether	< 0.03	mg/I	3/14/03	3/14/03	N.
	2-Chloronaphthalene	< 0.03	mg/l	3/14/03	3/14/03	N.
	4-Chlorophenyl-phenylether	< 0.03	mg/l	3/14/03	3/14/03	N.
	Chrysene	< 0.03	mg/l	3/14/03	3/14/03	N.
	Dibenz(a,h)anthracene	< 0.03	mg/l	3/14/03	3/14/03	N.
	Dibenzofuran	< 0.03	mg/l	3/14/03	3/14/03	N.
	Di-n-butylphthalate	< 0.03	mg/I	3/14/03	3/14/03	N.
	1,2-Dichlorobenzene	< 0.03	mg/l	3/14/03	3/14/03	N
	1,3-Dichlorobenzene	< 0.03	mg/l	3/14/03	3/14/03	NJ
	1,4-Dichlorobenzene	< 0.03	mg/l	3/14/03	3/14/03	NJ
	3,3'-Dichlorobenzidine	<0.03	mg/l	3/14/03	3/14/03	NJ
	Diethylphthalate	<0.03	mg/l	3/14/03	3/14/03	NJ
	Dimethylphthalate	< 0.03	mg/l	3/14/03	3/14/03	N.
	2,4-Dinitrotoluene	< 0.03	mg/l	3/14/03	3/14/03	N.
	2,6-Dinitrotoluene	<0.03	mg/l	3/14/03	3/14/03	N.
	Di-n-octylphthalate	< 0.03	mg/l	3/14/03	3/14/03	N,
	bis(2-Ethylhexyl)phthalate	0.092	mg/l	3/14/03	3/14/03	ИЗ
	Fluoranthene	< 0.03	mg/l	3/14/03	3/14/03	NJ

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Life Science Laboratories, Inc.

Date Printed:

3/26/03

United Environmental Group, Inc.

Elmira, NY

Sample ID:

TP-1

LSL Sample ID:

0303298-001

Location:

Sampled:

03/05/03 8:30

Sampled By: SD

Sample Matrix: SHW as Recd

Analytical Method			Prep	Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(5) EPA 8270 TCLP B/N					
Fluorene	< 0.03	mg/l	3/14/03	3/14/03	NJT
Hexachlorobenzene	< 0.03	mg/l	3/14/03	3/14/03	TLM
Hexachlorobutadiene	< 0.03	mg/l	3/14/03	3/14/03	NJT
Hexachlorocyclopentadiene	< 0.03	mg/l	3/14/03	3/14/03	NJT
Hexachloroethane	< 0.03	mg/l	3/14/03	3/14/03	NJT
Indeno(1,2,3-c,d)pyrene	< 0.03	mg/l	3/14/03	3/14/03	NJT
Isophorone	< 0.03	mg/l	3/14/03	3/14/03	NJT
2-Methylnaphthalene	< 0.03	mg/l	3/14/03	3/14/03	ТЦИ
Naphthalene	< 0.03	mg/l	3/14/03	3/14/03	NJT
2-Nitroaniline	< 0.03	mg/l	3/14/03	3/14/03	NJT
3-Nitroaniline	< 0.03	mg/l	3/14/03	3/14/03	TLM
4-Nitroaniline	<0.03	mg/l	3/14/03	3/14/03	TLM
Nitrobenzene	< 0.03	mg/l	3/14/03	3/14/03	TLN
N-Nitrosodiphenylamine	< 0.03	mg/l	3/14/03	3/14/03	TLM
N-Nitroso-di-n-propylamine	< 0.03	mg/l	3/14/03	3/14/03	NJT
Pyrene	< 0.03	mg/l	3/14/03	3/14/03	TLM
Phenanthrene	< 0.03	mg/l	3/14/03	3/14/03	NJT
1,2,4-Trichlorobenzene	< 0.03	mg/l	3/14/03	3/14/03	NJT
Surrogate (Nitrobenzene-d5)	55	%R	3/14/03	3/14/03	NJT
Surrogate (2-Fluorobiphenyl)	52	%R	3/14/03	3/14/03	NJT
Surrogate (Terphenyl-d14)	61	%R	3/14/03	3/14/03	NJT

United Environmental Group, Inc.

Elmira, NY

Sample ID:

TP-2

LSL Sample ID:

0303298-002

Location:

Sampled:

03/05/03 8:30

Sampled By: SD

Sample Matrix: SHW as Recd

Analytical Method Analyte		Result	Units	Prep Date	Analys Date & T		Analyst Initials
(5) EPA 1311 TCLP E	extraction						
TCLP Non-Vola	tile Extraction				3/13/03	03:00	JRG
(5) EPA 1311 TCLP Z	H Extraction						
	Ispace Extraction				3/13/03	03:00	JRG
					3/13/03	05.00	310
(I) EPA 6010 TCLP N	letals		_				
Arsenic .		<1	mg/l	3/19/03	3/19/03		PEF
Barium		<5	mg/l	3/19/03	3/19/03		PEF
Cadmium		<0.5	mg/l	3/19/03	3/19/03		PEF
Chromium		<1	mg/l	3/19/03	3/19/03		PEF
Lead		<1	mg/l	3/19/03	3/19/03		PEF
Selenium		<0.5	mg/l	3/19/03	3/19/03		PEF
Silver	•	<1	mg/l	3/19/03	3/19/03		PEF
7) EPA 7471 TCLP N	fercury						
Mercury		<0.002	mg/l	3/24/03	3/25/03		PEF
5) EPA 8082 TCLP P	CB's						
Aroclor-1016		<2	ug/l	3/18/03	3/18/03		NJT
Aroclor-1221		<2	ug/l	3/18/03	3/18/03		NJT
Aroclor-1232		<2	ug/l	3/18/03	3/18/03		NJT
Aroclor-1242		<2	ug/l	3/18/03	3/18/03		NJT
Aroclor-1248		<2	ug/l	3/18/03	3/18/03		NJT
Aroclor-1254		<2	ug/l	3/18/03	3/18/03		NJT
Aroclor-1260		<2	ug/l	3/18/03	3/18/03		NJT
Surrogate (DCB)		101	%R	3/18/03	3/18/03		NJT
5) EPA 8260B TCLP	Volatiles						
Acetone		<50	ug/l		3/14/03		PRV
Benzene		<10	ug/l		3/14/03		PRV
Bromodichlorome	ethane	<10	ug/l		3/14/03		PRV
Bromoform		<10	ug/l		3/14/03		PRV
Bromomethane		<30	ug/l		3/14/03		PRV
2-Butanone (MEI	(2)	<30	ug/l		3/14/03		PRV
Carbon disulfide		<10	ug/l		3/14/03		PRV
Carbon tetrachlor	ride	<10	ug/l		3/14/03		PRV
Chlorobenzene		<10	ug/l		3/14/03		PRV
Chloroethane		<10	ug/l		3/14/03		PRV
Chloroform		<10	ug/l		3/14/03		PRV
Chloromethane		<10	ug/l		3/14/03		PRV
Dibromochlorome		<10	ug/l		3/14/03		PRV
1,1-Dichloroethan		<10	u g/l		3/14/03		PRV
1,2-Dichloroethan		<10	ug/l		3/14/03		PRV
1,1-Dichloroethen		<10	ug/l		3/14/03		PRV
1,2-Dichloroethen	•	<20	ug/l		3/14/03		PRV
1,2-Dichloropropa		<10	ug/l		3/14/03		PRV
cis-1,3-Dichloropr	-	<10	ug/l		3/14/03		PRV
trans-1,3-Dichloro	propene	<10	ug/l		3/14/03		PRV
Ethyl benzene		<10	ug/l		3/14/03		PRV
2-Hexanone		<30	ug/l		3/14/03		PRV

Life Science Laboratories, Inc.

Page 5 of 7

Date Printed:

3/26/03

United Environmental Group, Inc.

Elmira, NY

Sample ID:

TP-2

LSL Sample ID:

0303298-002

Location:

Sampled:

03/05/03 8:30

Sampled By: SD

Sample Matrix: SHW as Recd

An	alytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
<u></u> '5)	EPA 8260B TCLP Volatiles					
	Methylene chloride	<30	ug/l		3/14/03	PRV
	4-Methyl-2-pentanone (MIBK)	<30	ug/l		3/14/03	PRV
	Styrene	<10	ug/l		3/14/03	PRV
	1,1,2,2-Tetrachloroethane	<10	ug/l		3/14/03	PRV
	Tetrachloroethene	<10	ug/l		3/14/03	PRV
	Toluene ·	<10	ug/l		3/14/03	PRV
	1,1,1-Trichloroethane	<10	ug/l		3/14/03	PRV
	1,1,2-Trichloroethane	<10	ug/l		3/14/03	PRV
	Trichloroethene	<10	ug/l		3/14/03	PRV
	Vinyl chloride	<10	ug/l		3/14/03	PRV
	Xylenes (Total)	<30	ug/l		3/14/03	PRV
	Surrogate (1,2-DCA-d4)	121	%R		3/14/03	PRV
	Surrogate (Tol-d8)	95	%R		3/14/03	PRV
	Surrogate (4-BFB)	106	%R		3/14/03	PRV
)	EPA 8270 TCLP B/N					
	Acenaphthene	<0.03	mg/l	3/14/03	3/14/03	NJT
	Acenaphthylene	< 0.03	mg/l	3/14/03	3/14/03	NJT
	Anthracene	< 0.03	mg/l	3/14/03	3/14/03	NJT
	Benzo(a)anthracene	< 0.03	rng/l	3/14/03	3/14/03	NJT
	Benzo(b)fluoranthene	<0.03	mg/l	3/14/03	3/14/03	NJT
	Велzo(k)fluoranthene	< 0.03	mg/l	3/14/03	3/14/03	NJT
	Benzo(ghi)perylene	<0.03	mg/l	3/14/03	3/14/03	ИТ
	Вепло(а)ругене	< 0.03	mg/l	3/14/03	3/14/03	NJT
	4-Bromophenyl-phenylether	< 0.03	mg/l	3/14/03	3/14/03	NJT
	Butylbenzylphthalate	<0.03	mg/l	3/14/03	3/14/03	NJT
	Carbazole	< 0.03	mg/l	3/14/03	3/14/03	NJT
	4-Chloroaniline	<0.03	mg/l	3/14/03	3/14/03	NJT
	bis(2-Chloroethoxy)methane	< 0.03	mg/l	3/14/03	3/14/03	NJT
	bis(2-Chloroethyl)ether	< 0.03	mg/l	3/14/03	3/14/03	NJT
	2-Chloronaphthalene	< 0.03	mg/l	3/14/03	3/14/03	NJT
	4-Chlorophenyl-phenylether	< 0.03	mg/l	3/14/03	3/14/03	NJT
	Chrysene	< 0.03	mg/l	3/14/03	3/14/03	NJT
	Dibenz(a,h)anthracene	< 0.03	mg/l	3/14/03	3/14/03	NJT
	Dibenzofuran	< 0.03	mg/I	3/14/03	3/14/03	NJT
	Di-n-butylphthalate	< 0.03	mg/I	3/14/03	3/14/03	TLM
	1,2-Dichlorobenzene	< 0.03	mg/l	3/14/03	3/14/03	NJT
	1,3-Dichlorobenzene	< 0.03	mg/l	3/14/03	3/14/03	NJT
	1,4-Dichlorobenzene	< 0.03	mg/l	3/14/03	3/14/03	NJT
	3,3'-Dichlorobenzidine	< 0.03	mg/l	3/14/03	3/14/03	NJT
	Diethylphthalate	<0.03	mg/l	3/14/03	3/14/03	NJT
	Dimethylphthalate	< 0.03	mg/l	3/14/03	3/14/03	NJT
	2,4-Dinitrotoluene	< 0.03	mg/l	3/14/03	3/14/03	NJT
	2,6-Dinitrotoluene	< 0.03	mg/l	3/14/03	3/14/03	NJT
	Di-n-octylphthalate	< 0.03	mg/l	3/14/03	3/14/03	NJT
	bis(2-Ethylhexyl)phthalate	0.045	mg/l	3/14/03	3/14/03	NJT
	Fluoranthene	< 0.03	mg/l	3/14/03	3/14/03	NJT

Life Science Laboratories, Inc.

Page 6 of 7

Date Printed:

United Environmental Group, Inc.

Sampled By: SD

Elmira, NY

Sample ID: Location:

Sampled:

TP-2

11-2

03/05/03 8:30

LSL Sample ID:

0303298-002

Sample Matrix: SHW as Recd

Analytical Method Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(5) EPA 8270 TCLP B/N					
Fluorene	< 0.03	mg/l	3/14/03	3/14/03	NJT
Hexachlorobenzene	< 0.03	mg/l	3/14/03	3/14/03	NJT
Hexachlorobutadiene	< 0.03	mg/l	3/14/03	3/14/03	TĮN
Hexachlorocyclopentadiene	< 0.03	mg/l	3/14/03	3/14/03	NJT
Hexachloroethane	< 0.03	mg/l	3/14/03	3/14/03	NJT
Indeno(1,2,3-c,d)pyrene	< 0.03	rng/l	3/14/03	3/14/03	TLM
Isophorone	< 0.03	mg/l	3/14/03	3/14/03	ТІИ
2-Methylnaphthalene	< 0.03	mg/l	3/14/03	3/14/03	NJT
Naphthalene	< 0.03	mg/l	3/14/03	3/14/03	NJT
2-Nitroaniline	< 0.03	mg/l	3/14/03	3/14/03	NJT
3-Nitroaniline	< 0.03	mg/l	3/14/03	3/14/03	NJT
4-Nitroaniline	< 0.03	mg/l	3/14/03	3/14/03	NJT
Nitrobenzene	< 0.03	mg/l	3/14/03	3/14/03	NJT
N-Nitrosodiphenylamine	< 0.03	mg/l	3/14/03	3/14/03	NJT
N-Nitroso-di-n-propylamine	< 0.03	mg/l	3/14/03	3/14/03	NJT
Pyrene	< 0.03	mg/l	3/14/03	3/14/03	NJT
Phenanthrene	< 0.03	mg/l	3/14/03	3/14/03	NJT
1,2,4-Trichlorobenzene	< 0.03	mg/l	3/14/03	3/14/03	NJT
Surrogate (Nitrobenzene-d5)	45	%R	3/14/03	3/14/03	NJT
Surrogate (2-Fluorobiphenyl)	50	%R	3/14/03	3/14/03	NJT
Surrogate (Terphenyl-d14)	49	%R	3/14/03	3/14/03	NJT



<u>SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS</u> 8/14/02

8/14/02		Water	SHW
Method	Surrogate(s)	Limits, %R	Limits, %R
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1;3-DM-2-NB, TPP	70-130	. "NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	70-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-15	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	50-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO*	Terphenyl-d14	50-150	50-150

*Run by GC/MS.

Units Key:	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery

LSL

5611 Water St.

Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD

LSL Central Lab. 5854 Butternut Drive LSL Middlesox

E. Syracuse, N.Y. 13057 Phone: 315-445-1105

MIDDLESER, NY 14507 Fax: 315-445-1301 LSL North Lab.

131 St. Lawrence Ave. Waddington, N.Y. 13694

Phone: 315-388-4476 Fax: 315-388-4061 LSL Finger Lakes Lab.

16 N. Main St., PO Box 424

Wayland, NY 14572 Phone: 585-728-3320

30 East Main St.

Cuba, N.Y. 14727

LSL Southern Tler Lab.

Phone: 585-968-2640 Fax: 585-728-2711 585-968-2640

Phone: 585-654-5347								777 777
Fax: 585-554-6740	2.				~		Turnaroun	apr
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APPENDIX C

MW-A LABORATORY RESULTS GROUNDWATER

United Environmental Group, Inc.

Elmira, NY

Sample ID:

MW-A

LSL Sample ID:

0308837-001

Location:

Sampled:

06/13/03 16:00

Sampled By: SD

Sample Matrix: NPW

Analytical Method				Analysis	Analyst
Analyte	Result	Units	Date	Date & Time	Initials
(5) NYS-DEC STARS 8270 Base/Neutrals					
Acenaphthene	< 0.01	mg/l	6/18/03	6/18/03	NJT
Acenaphthylene	<0.01	mg/l	6/18/03	6/18/03	TLM
Anthracene	<0.01	mg/l	6/18/03	6/18/03	TLM
Benzo(a)anthracene	< 0.01	mg/l	6/18/03	6/18/03	ТІИ
Benzo(b)fluoranthene	< 0.01	mg/l	6/18/03	6/18/03	ТІИ
Benzo(k)Ouoranthene	<0.01	mg/l	6/18/03	6/18/03	NJT
Benzo(ghi)perylene	<0.01	mg/l	6/18/03	6/18/03	TUN
Benzo(a)pyrene	< 0.01	mg/l	6/18/03	6/18/03	NJJ.
Chrysene	< 0.01	mg/l	6/18/03	6/18/03	TLM
Dibenz(a,h)anthracene	< 0.01	mg/l	6/18/03	6/18/03	ТЦИ
Fluoranthene	<0.01	mg/l	6/18/03	6/18/03	NJT
Fluorene	< 0.01	mg/l	6/18/03	6/18/03	NJT
Indeno(1,2,3-c,d)pyrene	< 0.01	mg/ĭ	6/18/03	6/18/03	TLM
Phenanthrene	< 0.01	mg/ì	6/18/03	6/18/03	NJT
Pyrene	< 0.01	mg/l	6/18/03	6/18/03	ТІИ
Surrogate (Nitrobenzene-d5)	76	%R	6/18/03	6/18/03	NJT
Surrogate (2-Fluorobiphenyl)	93	%R	6/18/03	6/18/03	TLM
Surrogate (Terphenyl-d14)	78	%R	6/18/03	6/18/03	NJT

United Environmental Group, Inc. Elmira, NY

Sample ID:

MW-A

LSL Sample ID:

0308837-001

Location:

Sampled:

06/13/03 16:00

Sampled By: SD

Sample Matrix: NPW

Result	Units ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/	Date	6/19/03 6/19/03 6/19/03 6/19/03 6/19/03 6/19/03 6/19/03 6/19/03 6/19/03	Initia N N N N N N N
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Page 2 of 2

Life Science Laboratories, Inc.

Date Printed:



SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS 8/14/02

8/14/02		100	01 884
Method	Surrogate(s)	Water <u>Limits, %R</u>	SHW Limits, %R
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	80-120	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	2 1- 110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Toi-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenoi	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Dodecane	40-110	40-110
DOH 310-14	Dodecane	40-110	40-110
DOH 310-15	Dodecane	40-110	40-110
DOH 310-34*	4-BFB	50-150	50-150
8015M_GRO*	4-BFB	50-150	50-150
8015M_DRO*	Terphenyl-d14	50-150	50-150

*Run by GC/MS.

Units Key:	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery



334 Br43 F.84

Life Science Laboratories, Inc. CHAIN OF CUSTODY RECORD

0308837

LSL North Lab.

131 St. Lawrence Aye.

Waddington, N.Y. 13694

Phone: 315-388-4476 Fax: 315-386-4061 LSL Captral Lab.

5854 Butternut Drive

E. Syracuse, N.Y. 13057

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16 N. Main St., PO Box 424

Wayland, NY 14572

Phone: 716-728-3920

Fax: 716-728-2711

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Coc

APPENDIX D

WATER DISPOSAL RECIEPT

Company 1062 Old Manheim Pike ancaster, PA 17601 717) 393-2627 rAX (717) 393-0432

NON-HAZARDOUS WASTE MANIFEST

Generator:	GARY DYER EXU. & TAN	K SERVICE	Phone No.:	(607)	754-02	00.		
	2198 N.Y. ROUTE 26	<u></u>	EPA ID No.;	NYD 9	NYD 986868982			
	ENDICOTT, N.Y. 13760		Contact:	BARY	EARY DYER			
Describe the pr	rocess of generating waste mate	erial: <u>ACCUM</u>	JLATION OF MUL	TIPLE GEN	ERATORS			
			- , <u>-</u>					
The Generato any level or con	r hereby requests and warra mbined levels that would requi	nts that the m	naterial as listed a hazardous waste	does not c	ontain su	bstances	at	
Date: 5/2	7/03 Signat	ure:	2 R					
	Digital	.d.c	Generator's Author	orized Repre	sentative			
	and the of West	Form	Overtity	Circle	λĭο			
De	escription of Waste	Form	Quantity	Units	No.	TT.	ntainer Drum	
				Pounds				
FUEL	OIL/WATER	Liquid	5116					
				Gallons	<i>y</i>			
(ransporter:	GARY DYER EXC. & TANK	SERVICE	Phone No.:	(607)				
	2198 N.Y ROUTE 26		EPA ID No.:	NYD 986868982				
	ENDICOTT N.Y. 13760		Contact:	GARY D	YER			
Tractor Tag No.	11871 PA		Trailer No.	AE 462	17			
certify that the	above specified waste is being	-			cling facil	ity name	d below.	
Date:	31 / 03 Signatu	ие:	Bollance	<i>Y</i>		•		
			<i>7</i> 2-					
cility:	Lancaster Oil Company		Phone No.:	(717) 393	3-2627			
	1062 Old Manheim Pike	_	EPA ID No.:	PAD 987	266749			
Lancaster, PA 17601		Contact:	Richard l	Richard Middleton				
	1 -1							
ne load describe	ed above is accepted at this facility	f•						
		-						

APPENDIX E

LANDFILL DISPOSAL RECIEPTS

Chemung County Soho Waste Management District 1690 Lake Street, Box 588, Elin ra, NY, 49, 24, 588 Phone (607) 737, 2980 — F. x 4607, 77, 7-2962

Oreg Jusick

490 Timina City of Emina (Enie Street) 17 East Church Street Acth: Ron Hawley (Erie St) Elmara 14901

TRANSACTION DATE		LICENSE PLATE, "T" or "C" NUMBE
5/19/03		45803PA
TICKET NUMBER	-	"B" or BOX NUMBER
2 000 4868		

INBOUND LOAD ORIGINATED FROM

NET WEIGHT INBOUND WEIGHT **OUTBOUND WEIGHT** DRIVER'S NAME 73500 44350 291.40 TIME OUT TIME IN AND TRACTOR NUMBER 09:10 AM MATE1:00 VEHICLE DESCRIPTION # OF RECYCLED BALES OUTBOUND MITELLE NOTES . CADEX OR CUSTOM'S INFO

TRAILER NUMBER TRUCKING CO'S RELEASE NUMBER CCSWMD "PASS" NUMBER

DEC PART 364 HAULING PERMIT # CCSWMD CONTAMINATED PERMIT :

TRUCKING COMPANY

QUANTITY	UNIT		DESCR	IPTION		RA	TE	EX	TENSION	∫s∪	RCHA	RGE		TOTAL	L
E.18	Ton	Contam:	inated	Soil	By V	veight	\$5.	25	\$116.	45	非認.	(32)	911E	40	
					·						,	į			
										1					
		1								1		:			
		NET AMOUNT		TE	NDERE	ED	CH	IANG	E AMOUNT			CHECK	NUMBER		

Each haulef must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X

THESE MATERIALS CAME FROM THIS ADDRES! PLEASE FILL IN THE ADDRESS ON THE LINES BELOW!)

PRINT Name

Chemung County Soud waste Management Instruct

1690 Lake Street, hox 588, Lin ira., NY 14992-0588 Phone (6)P (737-2985) + Eax (607) 737-2967

TRAILER NUMBER

TRUCKING CO'S RELEASE NUM

CCSWMD "PASS" NUMBER

Greg Jusick

490 Elmina City of Emina (Enie Street) 317 East Church Street Attn: Ron Hawley (Erie St) Elmira NY 14901

TRANSACTION DATE	LICENSE PLATE, "T" or "C" NU
5/19/03	45203PA
: TICKET NUMBER	"B" or BOX NUMBER
20004880	
; INBOUND LOAD	ORIGINATED FROM 14 1.4

INBOUND WEIGHT , OUTBOUND WEIGHT . 29160	NET WEIGHT	: 	DRIVEF	R'S NAME
TIME INCOME STORY OF THE TABLE		;;	TRACTOR NUMBER	· / i i T
10:05 AM / // 10	1:13 AM			
VEHICLE DESCRIPTION	15 to 2 11	§ 1	# OF RECYCLED BALES OUTBOUND	TRUCKING
MAROON AUSTIN				
NOTES	* * * *	; ;	CADEX OR CUSTOM'S INFO	ccswi

	11 21 21 21	ŢŖUÇKIN	G COMPANY	- 5	•		
		·					
l	DEC PART 364 HAULING	PERMIT #	CCSWMD CONTA	ΜΙΝΔΊ	rEn	Р	ᆮ

QUANTITY	UNIT	DESCR	IPTION		RATE	=	EX	TENSION	SURCHAI	RGE	TOTAL
23.94	Ton	Contaminated	Soil F	3y We	ight	\$5.	25	\$125.	69 1 <i>0.</i> 1	2121	\$125.69
									ļ .		•
											<u> </u>

NET AMOUNT	TENDERED	CHANGE AMOUNT	CHECK NUMBER
\$125.69 ,	\$0.00	୫ ଅ. ଅଅ	

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Majerial was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X

THESE MATERIALS CAME FROM THIS ADDR (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)

PRINT Name

Chemung County Solid Waste Management District

1690 Lake Street, B \(\delta\)588 | Em. rt. \(\delta\)Y | \(-\text{9}\) 2-6588 | Phone (607) (737-2980) \(\delta\) | F.ix (607) (737-2967)

, 90 Elmina City of Emira (Erie Street)

317 East Church Street

Greg Jusick

CHANGE AMOUNT

\$0.00

Attn: Ron Hawley			TRANSACTION	DATE ;	LICENSE PLATE, "T" or "C"_NUMBER	
Elmira	NY 14901		5/19/03		4526366	
			TICKET NUM	BER	"B" or BOX NUMBER	
			2000469	in j		
				BOUND LOAD	DRIGINATED FROM	
	•	ĺ	/			
INBOUND WEIGHT OUTB	OUND WEIGHT NET WEIGH	iT	· · · · · · · · · · · · · · · · · · ·	DRIVEF	R'S NAME	
.72360 B91	20 43240					
	では、シアード、 やTIME OUT		TRACTOR NUI	MBER .	TRAILER NUMBER	
11:05 AM	11:16 AM					
VEHIC	LE DESCRIPTION	,	# OF RECYCLED BALE	S OUTBOUND	TRUCKING CO'S RELEASE NUMBER	
MARCON AUSTIN						
	NOTES		CADEX OR CUSTO	M'S INFO	CCSWMD "PASS" NUMBER	
			Fortis wis 4.	TRUCKING	G COMPANY	
			DEC PART 364 HAULII	NG PERMIT #	CCSWMD CONTAMINATED PERMIT #	
O LIANTITY I MAUT	DESCRIPTION	l	E EXTENSION	SURCHARGE	TOTAL ·	
TINU YTITNAUC				 		
1.62 Ton Gon	taminated Soil By	Welight	\$5.E5 \$11d.	1)] \$10. VIKI	7117.51	
		Ì				
				1		

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here

NET AMOUNT

\$113.51

THESE MATERIALS CAME FROM THIS ADDRESS: (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)

CHECK NUMBER

PRINT Name

TENDERED

\$0.00

490 Elmina City of Emina (Enie Street) 317 East Church Street



Chemung County Solid Waste Management District

1690 Lake Street, Box 588, Flmira. NY 14962-0588 Phone (607) 737-2980 • Lax (607) 737-2967

Greg Jusick

Ermina City,t B17 East Chur	och Street	Dorewo,		ed ampien	•			
-	wley (Erie St)		1 ,	TRANSACTION DATE	LICENSE PLATE, "T" or "C".NU			
Clmira	NY :	14901		5/19/03:	458Ø3PA			
			j ;	TICKET NUMBER	"B" or BOX NUMBER			
•				20004910				
				INBOUND LOAD	ORIGINATED FROM . + f =			
INBOUND WEIGHT	OUTBOUND WEIGHT	NET WEIGHT		DRIVE	R'S NAME			
71480	29200	42280						
TIME IN	2 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1	TIME OUT		TRACTOR NUMBER	TRAILER NUMBER			
18:27	ীল 1.3	2:37 PM						
	VEHICLE DESCRIPTION	73,0	# OF	RECYCLED BALES OUTBOUND	TRUCKING CO'S RELEASE NU.			
MAADON AUSTIN	\							
•	NOTES		: C	ADEX OR CUSTOM'S INFO	CCSWMD "PASS" NUMBER			
				TRUCKING COMPANY				
			DEC	PART 364 HAULING PERMIT #	CCSWMD CONTAMINATED PER			
	· 			,				

QUANTITY	UNIT	DESC	RIPTION RATE		EXTENSION	SURCHARGE	TOTAL	
21.14	Ton C	ontaminated	Soil By We	ight \$5.	25 \$110.	99 \$0.00	\$117.93	
İ						!		
•	٠.					Ì		
	NE	TAMOUNT	TENDERED	CH	ANGE AMOUN	CHECK	KNUMBER	
	\$110	3.99 '	\$1000		\$0.00	į		
						i		

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X	Hong alex	THESE MATERIALS CAME FROM THIS ADD (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)
PRINT Name	GARLA COLAMAIL	

of the Att Attendance

490

Chemung County Solid Waste Management District

(69) Loke Street, Lox 5/3 Em. a, NY 14502-0188 Phone (607) 737-2580 - Fax (mf) (737-2567

Elmira (317 East				Street)		Gr	eg Jusicl	К		
Attn: Ro						:	TRANSACTION	DATE	LICENSE PLATE; "	T" or "C" NUME
Elmira		•	NY				5/19/03		4520	6PA
					Ī	11 >	TICKET NUME	BER: * /	"B" or BOX N	VUMBER
	1. 1. 1	1.1			Ī		2000487	9 -		
							- In	BOUND LOAD	ORIGINATED FROM	(1) (1) «
INBOUND W	EIGHT	OUTBOUN	D WEIGHT	NET WEIGHT		·:		DRIVE	R'S NAME	
70080	,	32500	,	37590						
	·TIME IN	na opposit	<u>/ 19-7000</u>	TIME OUT -	-:		TRACTOR NUM	MBER;	TRAILER I	NUMBER
18	0:01 A	<u>, </u>	1	Ø:11 AM		•				
		VEHICLE DI	SÇŖIPTION	$1 2 \sqrt{\epsilon_0 \epsilon_0}$		# OF F	RECYCLED BALE	S OUTBOUND	TRUCKING CO'S R	ELEASE NUMB
BLUE AUS				•						
	Lichii Sinit	NO	ΓES		,'	CA	DEX OR CUSTO	M'S INFO	CCSWMD "PAS	S" NUMBER
ž s					-	 .	_			
•								. TRUCKIN	IG COMPANY	
i					-	550	DADT 004 HAVII II	IO DEBLUX II	T coours course	
					-	חבקו	PART 364 HAULIN	VG PERMIT #	CCSWMD CONTAM	INATED PERMI
					L			· · · · · · · · · · · · · · · · · · ·		
QUANTITY	UNIT		DESCI	RIPTION	RAT	ſΕ	EXTENSION	SURCHARGI	ТОТ	AL
18.79	Ton	Contar	inated	Soil By We	ight	\$5.	25 \$98.6	5 40.00	998.65	_
				•				,		
								<u> </u>		
		NET AMOUN	Т	TENDERED		CH	IANGE AMOUNT	CHE	CK NUMBER	
	\$98	9,65	,	\$0.00			\$0.00			

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

THESE MATERIALS CAME FROM THIS AI

Sign Here. X

THESE MATERIALS CAME FROM THIS ADDRES (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)

PRINT Name



Cheming County Solid Waste Management District

1990 Lare Street, Box 583, Binna, NY, 494, 40588 Phone (507) 737-2950 + Pay (607) 737-2067

490 Elmina City.of Emina (Enie Street) 317 East Church Street	Greg Jusick	
Attn: Ron Hawley (Erie St)	TRANSACTION DATE LICENSE PLATE, "T. o	r "C" NU
Elmina) NY 14901	5/19/ 0 3 45206P	
` '	TICKET NUMBER "B" or BOX NUM	BER
• •	20004891	
	INBOUND LOAD ORIGINATED FROM - 3	
INBOUND WEIGHT OUTBOUND WEIGHT NET WEIGHT	DRIVER'S NAME	
59780 <u>32500</u> <u>37280</u>		-
TIME IN COLOR SECTION OF THE OUT	TRACTOR NUMBER TRAILER NUM	/BER
11:07 AM 11:17 AM		
VEHICLE DESCRIPTION 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# OF RECYCLED BALES OUTBOUND TRUCKING CO'S RELE	ASE NU
BLUE AUSTIN		
NOTES	CADEX OR CUSTOM'S INFO CCSWMD "PASS" I	NUMBER
	ı	
	TRUCKING COMPANY.	·
	DEC DADT COALLAND DECEMBER - COOMER COALLAND	
	DEC PART 364 HAULING PERMIT # CCSWMD CONTAMINA	TED PER
QUANTITY UNIT DESCRIPTION	RATE EXTENSION SURCHARGE TOTAL	
18.64 Ton Contaminated Soil By Weigh	rt \$5.25 \$97.86 \$0.00 \$97.86	
	·	
	;	
NET AMOUNT TENDERED	CHANGE AMOUNT CHECK NUMBER	
\$97.86 , \$0.00	\$ 21. 202	
(50)		

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X	Mill	Sterlie	.:	THESE MATERIALS CAME FROM THIS ADDR (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)
PRINT Name	1.16	1 Station		



Cheming County Solid Was e Management District 1690 (a se sir, a, 40x 588, Fin. r., NY, 48/2-1588) Plane 60° (-3-2980 + Fix. 607-737-967)



. COSTONIET		•		_	· •	Plone 6011 3 295	(+ F x 6)7 737 907	- P
નું દેશણે								
	of Emira (Erie	Street)		Θì	ren Jusic	K		
7 East Chu						1 DATE	LACENCE DI ATE STE	HOPENI INADEO
	(Eria St) الماها الماها NY	14901		: 1 704	TRANSACTION 5/19/03	IDAIE	"LICENSE PLATE; "T." 452:06	
អ <u>ិញ្</u> រាធិត្ស ប	1 1/1	7. 44. 27.69.7			TICKET NUM	BED	"B" or BOX NU	
					2000492		B OF BOX INC	
				1			DRIGINATED FROM .	<u> </u>
	•					NEODINE LOND	STIGHTALES I HOW :	
NBOUND WEIGHT	OUTBOUND WEIGHT	NET WEIGHT		-		DRIVER	R'S NAME	
EB720	32620	36100						
	idel 1800 (77,75)	TIME OUT		-	TRACTOR NU	MBER	TRAILER N	JMBER
j <u>21:35 j</u>		1:46 FM						
The second second second	VEHICLE DESCRIPTION			# OF	RECYCLED BALE	S OUTBOUND	TRUCKING CO'S REL	LEASE NUMBER
DUBLINGTIN				<u> </u>				
NOTES				,, C	ADEX OR CUSTO	CCSWMD "PASS	" NUMBER	
I						TOUGKING	COMPANY	
				• • • •	<u> </u>	HUCKING	G COMPANY	'
				DEC	PART 364 HAULI	NG PERMIT #	CCSWMD CONTAMIN	ATED PERMIT #
1				,520	77417 001717 001	101 211011 11	OGGVVIII OGICIANIII	TAILD I LIMIT #
i ————					- 3			
UANTITY UNIT		MPTION	RA		EXTENSION	SURCHARGE	TOTA	<u> </u>
1 0 35 Ton	C & D Const/	Demo	\$45.	ØØ	\$812.25	PØ. ØU	#813: 8°5	
,								
	·		<u> </u>			<u> </u>		
,	NET AMOUNT	TENDERED		C	HANGE AMOUN	r CHE	CK NUMBER	1
1 1	912.25	\$ (2) _ (2)(2)			\$0.00			
	-							
	n hauler must fill in th							
I certify t	that the Material was a	Legenerated in Ch	emung	, Cour				
Sign Here >	< BU 3914	<i>y</i> `			THES	E MATERIAL (PLEASE FILL IN T	S CAME FROM THE LINES	IIS ADDRESS:
<u> </u>		: ,						
DD DATE Mass		£ 11/2					_	

PRINT Name



Chemung County Solid Waste Management District

6% Lake Street, box 558, Einma, N) 14902-0588 Those 607: 737-2980 - Pax (607-737-2967

Breg Jusick

490 Elmira City: of Emira (E 317 East Church Street	rie	Street)
Attn: Ron Hawley (Erie : Elmira		14901

	TRANSACTION.DATE	LICENSE PLATE, "T" or "C" N
	5/20/03	45206PA
	TICKET NUMBER	"B" or BOX NUMBER
		AD ORIGINATED FROM
-		
-	, DRI	VER'S NAME
۱ ا-	· · · · · · · · · · · · · · · · · · ·	7 : 5

INBOUND WEIGHT .	OUTBOUND WEIGHT	NET WEIGHT	1	DRIVE	R'S NAME
74640	32940	41700			
TIME IN	यत् । अध्ययस्य क्रियासकात् ।	TIME OUT	÷	TRACTOR NUMBER	' TRAILER NUMBER
Ø9:04 A	in 0°	9:14 AM		•	
	VEHICLE: DESCRIPTION	recipas :	1:	# OF RECYCLED BALES OUTBOUND	TRUCKING CO'S RELEASE NU
BLUE AUSTIN					
	NOTES		1	CADEX OR CUSTOM'S INFO	CCSWMD "PASS" NUMBER
				11 garazouri TRUCKIN	G COMPANY
 				DEC PART 364 HAULING PERMIT #	CCSWMD CONTAMINATED PER

QUANTITY	UNIT	DESCR	TION	RATE	EXTENSION	SURCHARGE !	TOTAL
20,85	Ton C	ontaminated	Soil By We	ight \$5.	25 \$109.	6 %0.00	\$109.46
						• :	
	. :						1
			*************			00.500	

NET AMOUNT	TENDERED	CHANGE AMOUNT	CHECK NUMBER
\$109.46	\$ ዕ . ወሀ	\$0.00	

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X Hay Shith	THESE MATERIALS CAME FROM THIS ADDR
PRINT Name <u>Greg Stotler</u>	

Chemung County Solid Waste Management District 1690 Lake Street, Box 588, Histra, NY :4902-0588 Phone (607) 737-2980 • Fax 607, 737-2967

490 - 5 minst	Sa#b A≢	Emira (Eria	Stroot			en Jusick					
		:h Street	COUNTERD		ωr.	ed ampici	`				
					14 7.2.	TRANSACTION	DATE:	. LICENSE PLATE, "1	T" or "C" NUM		
Elmira		, " NY				5/20/03	p'	45200			
•					:	TICKET NUME		"B" of BOX N	UMBER		
			•	-				L AD ORIGINATED FROM			
		•					_	<u></u>			
		OUTBOUND WEIGHT	NET WEIGHT	i:	<i>1.</i>		DRI\	VER'S NAME	-		
79440			46420								
				ş i		TRACTOR NUM	BER .	TRAILER N	NUMBER		
1 <u>2</u> 1]			12:01 PM								
		/EHICLE DESCRIPTION	V 45 Text 27 113	1	# OF F	RECYCLED BALES	S OUTBOUN	D TRUCKING CO'S RE	ELEASE NUMI		
BLUE AUS	STIN										
		, NOTES	e e e e e e e e e e e e e e e e e e e	1}	CA	DEX OR CUSTO	M'S INFO	CCSWMD "PAS	S" NUMBER		
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!					:	party of extract 1. st	, TRU <u>C</u> k	KING COMPANY.,			
				[<u> </u>							
				1}-	DEC I	PART 364 HAULIN	IG PERMIT #	CCSWMD CONTAM	NATED PERM		
1				L				;			
QUANTITY	UNIT	DESC	RIPTION	RAT	E	EXTENSION	SURCHAR	IGE TOTA	AL :		
23.21	Ton	Contaminated	Soil By We	eight	\$5.	25 \$121.	35 10.0	\$00 \$121.85			
			·	- "							
	N	IET AMOUNT	TENDERED)	CH	IANGE AMOUNT		HECK NUMBER			
	\$12	1.85	\$Ø.ØØ			\$0.00					
	NBOUND WEIGHT OUTBOUND WE 33020 TIME IN OFFICE DESCRIPTION VEHICLE DESCRIPTION NOTES OUANTITY UNIT CONTAINING NET AMOUNT		\$1C1.OU , \$6.60							•	

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

THESE MATERIALS CAME FROM THIS ADDRES (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW) Sign Here X PRINT Name



Cheming County Solid Waste Management District to 11, 37 Sect. Box 558 Emra NY 1/9 24/58-156 nc (6/7) 737-2980 + (6/8) 7077 737-2967

490

Elmirá D	City o	f Emira (Erio ch Street	Street) ·	•	· Gr	eg Jusich	≺		
		ley (Erie St)	,		· . ; =	TRANSACTION	DATE	LICENSE PLATE	E. "T" or "C" NUN
Elmira	7.1 710,00	N'				5/19/03			206PA
			,			TICKET NUME	BER		X NUMBER ** **
						20004940			
						IN	IBOUND LOAD	ORIGINATED FRO	M 1:4,14
INBOUND W	EIGHT	OUTBOUND WEIGHT	NET WEIGHT				DRIVEF	RSNAME	
75230		38660	45620						
	TIME IN	2 1 225 1 3 5 5 5 4 4 7 3			, ,	TRACTOR NUM	MBER !	TRAILE	R NUMBER
<u> </u>	2:31 P		02:41 PM						
5 1 185 - 5 1 185	577761	VEHICLE DESCRIPTIO	N,	` i	# OF F	RECYCLED BALE	S OUTBOUND	TRUCKING COS	S RELEASE NUM
BLUE AUS	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	· · · · · · · · · · · · · · · · · · ·	· ; — · · · ·		(0.				
		NOTES		;;	: CA	DEX OR CUSTO	M'S INFO	CCSWMD "F	PASS" NUMBER
		:			:1	20	TRUCKING	G COMPANY, ;	-
					, i	29. 2 . + 3 . 1	7 11100,4114	3 001/11/11/11/11	
					DEC	PART 364 HAULIN	IG PERMIT#	CCSWMD CONT	AMINATED PERM
				.		•			
	T								
QUANTITY	UNIT		RIPTION		TE	EXTENSION	SURCHARGE		OTAL
22.81	โอก	Contaminated	Soil By Weight		\$5.	25 %119.	757 TIOL 1013	7119.	75
	ļ						,		
	\			J <u></u>			<u></u>	:	
		NET AMOUNT	TENDERED	TENDERED		IANGE AMOUNT	CHE	CK NUMBER	
	15.1	19.75	\$ (2) (2) (2)			\$0.00	i		
	+	1.50 1.05							į
									
_	Each	hauler must fill in	the following info	rmatio	on and	sign, or dispo	osal privilege	s may be revo	ked.
I	certify th	nat the Material was	all generated in Ch	nemung	g Coun				
Sign H	ere 🗙	LIM MI	dilla			THESI	MATERIAL (PLEASE FILL IN)	S CAME FROM THE ADDRESS ON THE	1 THIS ADDRE
O									
PRINT	Name	e <u>brea</u> So	Sept.						

Chemung County Sona waste Stanagement District 1600 Luce Nicet, Box 588, Err. rr, NY 14502-0588. Phone (nG2) 737-2980 + Erx (nd7, 737-2967.



490

Elmira. 17 Eas				Street		"ופו	ed Anero	K	•	
. Sthi R						101	TRANSACTION	DATE	LICENSE PLATE,	T" or "C" NUMBER
aimi a			. NY	14901			5/20/03		4580	
2						1	TICKET NUM	BER	<u> </u>	NUMBER ;
							2000495			
							lì	NBOUND LOAD	ORIGINATED FROM	1, 1, 1,
INBOUND V	VEIGHT	OUTBOUN	D WEIGHT	NET WEIGHT		,		DRIVE	R'S NAME	
7500		32940		44560						
·		Cier Sr.M.		TIME OUT		``	TRACTOR NU	MBER	TRAILER	NUMBER
	6:59 A			7:09 AM						
		VEHICLE D	ESCRIPTION			# OF I	RECYCLED BALE	S OUTBOUND	TRUCKING CO'S F	RELEASE NUMBER
FLUE AU	STIN									
		NO	TES	1 /		C/	DEX OR CUSTO	DM'S INFO	CCSWMD "PAS	SS" NUMBER
					ļ	ļ ,				
						1 !	19. 18.00 × 3	, TRUCKIN	G COMPANY	* 1
							PART 364 HAULI	VO DEDMIT #	CCCWHD CONTAN	ÁNATED BEDAUT
						,DEC	PART 304 RAUCII	NG PERIVIT #	CCSWMD CONTAIN	MINATED PEHMIT
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QUANTITY	UNIT		DESCR	IPTION'	RA	TE	EXTENSION	SURCHARGE	TO	TAL
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	1 11	16.97	,	\$ (2) (2)(2)			\$Ø.00			
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									es may be revoke	
]	I certify th	iat the Mat	erial was al	l generated in Cl	hemung	, Coun	ty and that it o	does not cont	ain hazardous ma	terials.
المناسبة الما	Ta	, J	x - 02	THE			THES	E MATERIAI	S CAME FROM THE LIN	THIS ADDRESS
Sign H	iere 🗡		1/ 1/80					(PLEASE FILLIN	THE ADDRESS ON THE LIN	IES BELOW)
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	T	- /	ς	11/100						

Sign Here X



Cheming County Solid Waste Management District

CUSTOM	1ER					'			8 · • E4X · 607) 737-29(**	
				Street)		l_y	nn Ti Fi	eta Jr.		
317 East Actn: Ro						ļ r —	TRANSACTION	DATE 1.1.1	LICENSE PLATE, "	T".or."C".NU
Elmana	on maw	rea (Er	NY	14901			57152 0 3			
C. 2 III A 1 20			141	14501			TICKET NUM	BER ' ' '	"B" or BOX N	UMBER***
	٠,						2000478	1		
									ORIGINATED FROM	., ^. !
INBOUND W	/EIGHT	OUTBOUN	D WEIGHT	NET WEIGHT	::	11		DRIVE	R'S NAME .	-
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	TIME IN	เหล่ รายราชกะ		TIME OUT	!.	1 '>	TRACTOR NU	MBER	TRAILER	NUMBER
Ø13	2:16 P	M		2:33 PM						
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11022										
	:	, NO.	TES		; 3	□ CA	DEX OR CUSTO	M'S INFO	CCSWMD "PAS	S" NUMBER
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							,. ,	,TRUCKIN	G COMPANY ;	· · · ·
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i						DEC	PART 364 HAULI	NG PERMIT #	CCSWMD CONTAN	INATED PER
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	Each	hauler mu	ist fill in th	ie following info	rmatio	n and	sign, or disp	osal privilege	es may be revoke	d.
I	certify th	at the Mat	erial was a	II generated in Ch	emung	g Count			ain hazardous mai	
Sign H	ere Y	·	1/1	11/2-11-			THES	E MATERIAL	S CAME FROM THE LIN	HIS ADDR
Loigniti		1/2/	ang s					, דנבאסב דונבות	THE YOURS ON THE TIM	ES DELOW)



Chemung County Solid Waste Management District

CUSTOM	IER				₹ @ (159 'Lake Street, Phone (fist?) 73"				*2
•	,	Emira (Erie	Street)		L.y	nn T. Fic	ലില ിസം.				ŞV.
		n Street ey (Erie St)				TRANSACTION	DATE	LICEN	SE PLATE, "T" or "C	MUM	#EI
	211 1157647 5	NY	14901			5/15/03				[
						TICKET NUME	BER		"B" or BOX NUMBER	3	
!!!						20004695	5			Al	1
*F.]	11/	BOUND LO	AD ORIGINA	TED FROM , 4,	₹.	
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_INBOUND W	<u>-</u> _	OUTBOUND WEIGHT	NET WEIGHT	Γ , '	: }		DRI	/ER'S NAM	E ,		;
<u>6</u> 5520		31120	34400								
i .		15,2140 J. J. 10 1.		· · ·	; ``	TRACTOR NUM	MBER	,	TRAILER NUMBE	R	
i	1:47 AM		2:06 PM								
· · · · · · · · · · · · · · · · · · ·		EHICLE DESCRIPTION	ontro 1		# 05 6	RECYCLED BALE	SOUTBOUN	D TRUCK	(ING CO'S RELEASE	NUM	BEH
TRK T128		NOTES			·! CA	DEX OR CUSTO	M'S INFO	CC	SWMD "PASS" NUM	BER ·	. '
i	٠.			-	1,	terra st. 2.	TRUCK	I KING COMPA	ANY.	:	١,
					DEC	PART 364 HAULIN	IG PERMIT #	CCSW	MD CONTAMINATED	PERM	AIT #
QUANTITY	UNIT	DESCR	IPTION'	R/	ATE	EXTENSION	SURCHAR	GE	TOTAL .		
17.2	Ton (ontaminated				25 \$90.3	9 \$0.00	ì \$	90.30		
_	. NE	T AMOUNT	TENDERE	 D	CH	IANGE AMOUNT		HECK NUMI	BER .	<u>.</u>	
	\$90.	. 30	\$10.00			\$0.00					
	Each ha	uler must fill in th	e following inf	ormatic	n and	sign, or dispo	osal privil	eges may	be revoked.		

I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

| Sign Here 🗶

THESE MATERIALS CAME FROM THIS ADDRESS (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW.)

Chemung County Soud Waste Avanagement Listrict 1690 Like Sheer, B. v 588, Elman, NY 14902-0339 Phone (607) 737-1984 + Fax (607) 737 (207)



UI .		:		> X			
mira City of Emira (Er	ie Street)			nn T. Fie	eld Jr.		
7 East Church Street to: Ron Hawley (Erie S	t)			TRANSACTION	DATE	LICENSE PLATE, "T" or	r "C" NUMBER
	NY 14901	1		5/15/03			
				TICKETINUME	5R	"B" or BOX NUM	BER
					<u>i</u>		
3760 31020	3274ø	,				DRIGINATED FROM	· I
BOUND WEIGHT - LOUTBOUND WEIGH		 \		<u> </u>	<u> 088</u>	IO NAME	
BOUND WEIGHTE DUTBOUND WEIGH	10:43 AM				DRIVER	'S NAME	
LIE TRRIMEIN W JOST WO	> TIME OUT			TRACTOR NUM	IBER	TRAILER NUM	MBER .
VEHICLE DESCRIPT	ION .	[# OF R	ECYCLED BALES	OUTBOUND	TRUCKING CO'S RELE	ASE NUMBER
NOTES			CAI	DEX OR CUSTO	M'S INFO	CCSWMD "PASS" N	NUMBER
•			<u>-</u> .	John Jose Son	TRUCKING	COMPANY	· 1
•			DEC P	ART 364 HAULIN	IG PERMIT#	CCSWMD CONTAMINA	TED PERMIT#
5. Ton Contonia.							
ANTITY UNIT DE	SCRIPTION	E 1. LHA	LE A	EXTENSION :	SURCHARGE	\$65. TOTAL	
						i,	
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NET AMOUNT	TENDERED		CHANGE AMOUNT		CHEC	CK NUMBER	
20 J. 94	\$ \(\overline{\chi}_1\), \(\overline{\chi}_1\overline{\chi}_2\)			\$0.00			
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Each hauler must fill in I certify that the Material wa							alo.
i certify that the Material wa	s an generated in Cir.	emung	Count	•			
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TO TO TOTAL	1/1/2-					·	

'RINT Name



Cheming County Solid Waste Management District

Holo accis reci Box (8) - Fair (NY) 40-2-0588 Prone (107) 727-2980 - Faix (607) 737-29

490

Elmina (317 Eas				Stre	et)	:	l_y	nn T. Fi	eld Jr.	-	
Attn: R							1,	TRANSACTION	DATE .	LICENSE PLATE, "T". o	r "C" NUMB
Elmina	MIII. LICIM	1 = A / r	NY	149	Ω: 1		-	57157 63			
L. A III & L. AV			141	1 "	KU L			TICKET NUM	IBER	"B" or BOX NUM	1BER
•								2000471	.(2)		
							`;			ORIGINATED FROM	. ! .
INBOUND W	EIGHT		ID WEIGHT		WEIGHT				DRIVE	R'S NAME	
<u> 78240 — </u>	TIME IN	<u>31020</u> 30 7475	1.亿 ·	472 TIME OL				TO ACTOD AIL	Morp	1 TO ALL FORMS	IDED
	,		1					TRACTOR NU	MBEH	† † TRAILER NUI	<u>√RFK</u>
<u> </u>	1: <u>04 P</u>		L <u>L21</u> ESCRIPTION	1:23			# OF 5	RECYCLED BALL	ES OLITROLIND	TRUCKING CO'S RELE	A CE NILINADA
 F71 2 888		VEI HOLL D	LOCIAL HOLY	** / 1,7 **		•	# 0	IEC I CLED BALL	23-00 I BOOND	THOUNING COS RELE	HOMO
1 1 12.2 3.2		ЙО	TES .	٠.		1	CA	DEX OR CUST	OM'S INFO	CCSWMD "PASS"	NUMBER
i							<u> </u>	ne	TRUCKING	G COMPANY ;,	· ·
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							DEC	PART 364 HAUL	ING PERMIT #	CCSWMD CONTAMINA	TED PERMI
1											
QUANTITY	UNIT		DESCF	RIPTION		RA	ÀTÉ.	EXTENSION	SURCHARGE	TOTAL	
20.6a	Ton	Conta	ninated	Soil	By We	ight	; \$5.	25 \$123.	95 70,00	\$183 . 95	
					•						
_									<u> </u>	<u> </u>	
		NET AMOU	NT	1	ENDERED		C⊦	IANGE AMOUN	T CHE	CK NUMBER	
	\$ 1	23. 95	,	\$ (2)	. 00			\$0.00	:		
· [Each	hauler mi	ist fill in th	e follow	ring infor	rmatio	n and	sign, or disp	osal privilege	s may be revoked.	•
	certify th	at the Mat	erial was a	ll genera	ited in Ch	emun	g Count	-		iin hazardous materi	
Sign H	ere X	1/10	1 /50		シ 			THES	E MATERIAL PLEASE FILL IN T	S CAME FROM THI	SADDRES
PRINT	` Name		07 St.	//4/	a.						
(~ '		<u>/ / () </u>	7.							

Lynn T. Field Jr.

TRANSACTION DATE	LICENSE PLATE, "T" or "C"
5/16/33	T1022
TICKET NUMBER	"B" or BOX NUMBER
20004758	,
INBOUND LOAD	ORIGINATED, FROM 29 - 152 Et

SURCHARGE

INBOUND WEIGHT OUTBOUL	ND WEIGHT NET WEIGHT		DRIVE	R'S NAME	
65780 . 31380	34400		Grey Stotler Permit Ø3		
TIME IN JUST OF AGE	TIME OUT		TRACTOR NUMBER	TRAILER NUMBER	
Ø9:14 AM	09:27 AM				
VEHICLE	DESCRIPTION. CHARASTER	- 1	*# OF RECYCLED BALES OUTBOUND	TRUCKING CO'S RELEASE	
BlueAustinTruck Eri	e&Home				
	OTES TO THE STATE OF THE STATE		CADEX OR CUSTOM'S INFO	CCSWMD "PASS" NUM	
				:	
1			TRUCKIN	G COMPANY	
· · · · · · · · · · · · · · · · · · ·				•	
lar in the second			DEC PART 364 HAULING PERMIT #	CCSWMD CONTAMINATED	

	NET	AMOUNT	TENDERED	CHA!	NGE AMOUNT	CHECK NUM	BER
	1 - 1					•	
	·.		•				
17.2	Ton Co	ontaminated	Soil By We	ight \$5.2	5 \$90.3þ °	ଅ. ଅଧ	\$90.D0

NET AMOUNT	TENDERED	CHANGE AMOUNT	CHECK NUMBER
\$90.30	\$0.00	\$0.00	

RATE

EXTENSION

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Here

H

Sign Here X

THESE MATERIALS CAME FROM THIS ALL PLEASE FILL IN THE ADDRESS ON THE LINES BELOW

TOTAL

PRINT Name

il.

Elmina City of Emira (Eria Street) 317 East Church Street

Attn: Ron Hawley (Erie St)

Elmina NY 14901 Lynn T. Field Jr.

TRANSACTION DATE	LICENSE PLATE, "T" or "C" NUM
5716703	TRUCK#PP
TICKET NUMBER*	"B" or BOX NUMBER
20004794	
INBOUND LOA	D ORIGINATED FROM

INBOUND WEIGHT	OUTBOUND WEIGHT	NET WEIGHT	<u> </u>		DRIVE	R'S NAME		
71340	28700	48640		Gary Coleman Permit# 03-16				
TIME IN:	र प्रस्ति एक प्राथमिक र राज्य र राज्य	TIME OUT		1. T	RACTOR NUMBER	TRAILER NUMBER		
12:19 P	m 🥠 13	2:28 PM		Α,				
•	VEHICLE DESCRIPTION,	Sec. Process		# OF REC	YCLED BALES OUTBOUND	TRUCKING CO'S RELEASE NUMBE		
RedAustipTruc	k Erie&Home				į.			
	NOTES	3=41 2 ~ ~	1	CADE	X OR CUSTOM'S INFO	CCSWMD "PASS" NUMBER		
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	G COMPANY		
•				DEC PAF	RT 364 HAULING PERMIT #	CCSWMD CONTAMINATED PERMI		
				\- 				

QUANTITY	UNIT	DESCRIPTION	RATE	EXTENSION	SURCHARGE	TOTAL
21.32	Ton (ontaminated Soil By We	ight \$5.	25 \$1112	93 \$0.00	\$111.9S
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NET AMOUNT	TENDERED	CHANGE AMOUNT	CHECK NUMBER
	ľ		
\$111.93	\$120, 202	\$ Ø . Ø Ø	
<u>,</u>			

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X

THESE MATERIALS CAME FROM THIS ADDRES (PLEASE FILL IN THE ALDRESS ON THE LINES BELOW)

PRINT Name

| 1690 Late Street, Box 588, Elin a NY (4902), 588 | Phone 6007 (137-2980 + 6) \(\infty \) 6 (7-737-1967

				Street)		Ly	ר מח	r. Fie	eld J	r.		•	
317 Eas						٠, ٠	TRANS	SACTION	DATE		LICENSE PLA	TE, "T" or "C" NU	IMB
Attn: R	on Haw	ileh (Fi		3 4 10/2 3		_	5/16		DAIL.	` .			14101
Elmara			NY	14901		: :		ET NUME	SEB .			ATCとは2つ OX NUMBER T	· :
•								20481:				OX NONBER	<u> </u>
						·:	1 4.14			LOAD	ORIGINATED FF	ROM [rl	- :
INBOUND W	/EIGHT		D WEIGHT	NET WEIGHT	· · · · ·	1	-		. [DRIVER	R'S NAME		- :
72880		28840		44040				Gas			an Demail	± 03-16.	
<u></u>	TIME IN	110 , 130, 11	· X	TIME OUT	j (<u> </u>	, TRAC	TOR NUM				LER NUMBER	-:
171	2:18 P			2:27 PM				., ., ., .,				22111101110011	
	1 1 () 1	VEHICLE DE		, , , , , , , ,	:	# OF F	RECYCL	ED BALE	S OUTBO	DUND	TRUCKING CO	D'S RELEASE NU	MBE
RedAust	inTruc												
	. , , ,	NO	res		::	CA	DEX O	R CUSTO	M'S INF	0	CCSWMD	"PASS" NUMBE	٦ .
						11 1				UCKING	G COMPANY :	<u> </u>	- ; ;
						- `	· /·	, , , ,		OCKING	COMPANY :	· : ·	- 1
						DEC	ART 36	64 HAULIN	IG PERM	NT#	CCSWMD CO	NTAMINATED PE	RMI
					· .								
QUANTITY	UNIT	·1	ØESCP	IPTION ·	RA	TE	EXTE	NSION	SURC	HARGE		TOTAL	
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hadia a sola	, 011	Gonean	THECCU	DOLL DY WE	1 1 1 1 1 1	4.01	h ' +	4 Y Y 20 4	12. +4		,		
										,			
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		NET AMOUN	T	TENDERED		CH	ANGE	AMOUNT		CHE	CK NUMBER		
	\$1	15.61		\$121, 12112			\$12.	(202)				1	
	Fach	hauler mu	et fill in th	e following info	rmatic	n and	eian .	or disno	seal nr	ivilege	e may he rev	oked	—
l ' 1	certify th	at the Mate	erial was al	Legenerated in Ch	nemung	Count	tv and	that it d	loes no	t conta	in hazardous	materials.	
· .	_	7/1		12-000		,	.,						RES
Sign H	ere 🗶	X VV	~ LO					× 11201	(PLEAS	FILL IN T	HE ADDRESS ON TH	M THIS ADD	
		0.1	2 /		n .\				 				
PRINT	Name	e The	KY (ゆし ヒノリル	NY								

1690 Lake Street, Box 588, Blanca, NY 14902-0588 Phone (607) 737-2980 + Pax (607) 737-2967

490

				Street)		Ly	nn T. Fi	eld Jr.		·
` 317 East						1	TRANSACTION	DATE	LICENSE PLATE	E,."T" or "C" NUMBER
Attn: Ro	on Haw	itea (Fi	ie St. VM	14901			5716703		T 1 0	
Elmina			NY	TABELL		17,500-	TICKET NUM	3ER		X NUMBER
							· 2000474			
						10.75			ORIGINATED FRO	M rigo e i s
1							·			
INBOUND W	EIGHT	OUTBOUN	D WEIGHT	NET WEIGHT		7.	· · · · · · · · · · · · · · · · · · ·	DRIVE	R'S NAME .	
71500	·——	31340		42160			Gr	eo Stotl	er Permit	03-16
	TIME IN	doct in the	2.53 s 111 s	TIME OUT			TRACTOR NUM	MBER	TRAILE	R NUMBER
হাট	3:19 F			9:28 AM						
·	·	VEHICLE DI	ESCRIPTION	. 11 6 8 1 1		# OF F	RECYCLED BALE	S OUTBOUND	TRUCKING CO'S	S RELEASE NUMBEF
<u> BiueAust</u>	بعتمين									
1 !		, , , , NO.	TES	•	:!	. CA	DEX OR CUSTO	M'S INFO	CCSWIAD "F	PASS" NUMBER
						 		TOUGH	C COLIDANIY	*:
i .						-	to every some	HUCKIN	G COMPANY	·
<u> </u>						DEC	PART 364 HAULI	NG PERMIT #	CCSWMD CONT	AMINATED PERMIT
1		,				550.	71117 004 117 10 211	TO TELLUTION	000111111111111111111111111111111111111	744444125124441
,			 							
QUANTITY	UNIT		DESCF	RIPTION	R/	TE	EXTENSION	SURCHARGE	Т	OTAL
120.08	Ton	Contar	minated	Soil By We	liaht	\$5.	25 4105.	he :0.00	\$105.4	42
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<u> </u>					<u> </u>			<u> </u>		
		NET AMOUN	IT Ţ	TENDERED		CH	IANGE AMOUNT	CHE	CK NUMBER	
	1 11	05.42	,	\$ (2) . (2) (2)			\$0.00			
	<u> </u>									
(.				e following info						
I	certify th	iat the Mat	erial was a	Il generated in Ch	emun	g Coun				
l Sion II	oro Y	21	man 1	~ A.l.			THES	E MATERIAI	S CAME FROM	1 THIS ADDRE
Sign H	cre 🔽	1-1-	<u> </u>	ella				(PLEASE FILL IN	THE ADDRESS ON THE	LINES BELOW)
			-						 	
PRINT	` Name	e i	6 (1 . 1 .	10/						

Cheming County Solid Waste Management District

1690 Lane Street, Box 585, Ultura, NY, 4902-0558 Prione (60°) 737-2980 + Tax (607-737-2967

CUSTOMER	
490	
Elmina City of Emira (Erie	Street)
3:7 East Church Street	·
and the second s	

				-				Taking to the first of the	14 14 17 17 270	
-490 -Elminal -317 East				Street)		Ð۱	eg Jusic	k		
Actn: R							TRANSACTION	DATE	LICENSE PLATE, "T" o	r "C" NUN
Timica		•	MY	14901			5/19/03	,	, 45203F	
		• • •					"TICKET NUM	BER	"B" or BOX NUM	IBER
							20000464	Ø	<i>:</i>	
						11	16	NBOUND LOAD	ORIGINATED FROM	., (1 -
		•						e de la company		
INBOUND W	/EIGHT	OUTBOUN	D WEIGHT	NET WEIGHT			Ţ.·	DRIVER	R'S NAME	
75650		29200		46460						
,	TIME IN		1	TIME OUT		,	TRACTOR NU	MBER	TRAILER NUI	VBER
(Z)	7:03 A	*]	Z	7:12 AM						
ı		VEHICLE DI	SCRIPTION		É	# OF F	RECYCLED BALE	S OUTBOUND	TRUCKING CO'S RELE	ASE NUM
AUSTIN								•		
		NO.	TES 1		- 7	i, CA	DEX OR CUSTO	M'S INFO	CCSWMD "PASS"	NUMBER
							to recourt on	TRUCKIN	G COMPANY	
						DEC	PART 364 HAULII	NG PERMIT #	CCSWMD CONTAMINA	TED PERI
OUANTITY	UNIT		DESCE	RIPTION	BA	TE.	EXTENSION	SURCHARGE	TOTAL	:
23.23	Ton	Cootae		Boil By W						· ·
that shows	1011	C. C. 77 (C. C.) 11	ranace e	DOLL LIY VY		/ [1.54			1	
	.									
•		+								
·	<u> </u>	NEW AND 11	(T	TENDEDED			IANOE ANGUINE	I CHE	CK NUMBER	
		NETAMOUN	11	TENDERED		CF	IANGE AMOUN	- CHE	Or NOWDEN	
	\$ 13	21.96	,	10.00			\$0.00			

\$121.96 \$0.00 \$0.00	NETAMOUNT	TENDERED	CHANGE AMOUNT	CHECK NUMBER
	\$121.96	40.00	\$ 0.00	

Each hauler must fill in the following information and sign, or disposal privileges may be revoked.

I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

THESE MATERIALS CAME FROM THIS ALL

Sign Here	X	()	Coleman
C		α	

THESE MATERIALS CAME FROM THIS ADDR (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)

Cheming County Solia Waste Management District

.690 Lake Street, Box 558 Emilia, NY 14902-0588 Phone (607) 737-298 Fax (607) 737-2967

490

Elmina: City of Emira 317 East Church Stree		· ' 🔄	reg (Jusici	₹ .		•
Attn: Ron Hawley (Eri		1	TRANSACTION	DATE	LICENSE, PLATE, "T" or "C	 C" NUM
Elmira	NY 14901	-	5/19/03:		45203PA	
•		;	TICKET NUME	BER	"B" or BOX NUMBE	:R":"
	,		E000491	7		
		ř .	a A IN	BOUND LOAD	ORIGINATED FROM 6 115, 4	4 * *
			• •			
INBOUND WEIGHT , OUTBOUND \	WEIGHT NET WEIGHT		.,	DRIVER	R'S NAME	
TIME INSTRUCTOR	LTUO BMITH Place		TRACTOR NUM	BER ¹ / 11	TRAILER NUMBE	ER
Ø1:26 PM			BEOLOUED B. 1. E.			= > 11 (1) (1)
VEHICLEIDES MAROUN AUSTIN	CRIPTION CONTROL OF 171	#OF	RECYCLED BALES	2 ON I BOOND	TRUCKING CO'S RELEAS	E NUM:
NOTE	S	ji lị C.	ADEX OR CUSTO	M'S INFO	ĆCSWMD "PASS" NUI	MBER
·				TRUCKING	2 COLUDANIV	
			Same water 12 Fo	THUCKING	COMPANY. La	
•		DEC	PART 364 HAULIN	IG PERMIT#	CCSWMD CONTAMINATE	D PERI
QUANTITY UNIT	DESCRIPTION	RATE	EXTENSION	SURCHARGE	TOTAL	-:
SS. 21 Ton Contami	nated Soil By We	eight \$5.	E5 \$116.	50 % 0. 00	\$116.60	
	·	1				
<u> </u>						
NET AMOUNT	TENDERED	C	HANGE AMOUNT	CHEC	CK NUMBER	
\$115.60	\$ 20, 2020		\$ 0.00			
Each hauler must	fill in the following info	rmation and	sign, or dispo	sal privilege	s may be revoked.	
I certify that the Materi	al was all generated in Cl	nemung Cour	ity and that it d	oes not conta	in hazardous materials	.

Each hauler must fill in the following information and sign, or disposal privileges may be revoked.
I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.
MARDEL A COMPANIA OF A CONTRACT OF A CONTRAC

Sign Here X Land Control

THESE MATERIALS CAME FROM THIS ADDR (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW .



Cheming County Solid Waste Management District

1390 Lane Street, Isox 588; Ermilat, NY 4902-0588 1 hone (607), 737-2980 (607), 737-2967

Flairs City of Emira (Frie Street) Bren Insick

317 East Church Street			•
Attn: Ron Hawley (Erie St)		TRANSACTION DATE	LICENSE PLATE, "T" or "C" NU
Elmira NY	14901	5/19/03.	452Ø3PA
•		TICKET NUMBER :	" "B" or BOX NUMBER
• •		20004937	
		INBOUND LOAD	ORIGINATED FROM A SET 1500
INBOUND WEIGHT . OUTBOUND WEIGHT	NET WEIGHT	中心 DRIVE	R'S NAME
74740 29240	45500		

TIME IN THE PROPERTY.	ぎ アグジュロー A TIME/OUT	1.	TRACTOR NUMBER 1 ADS	TRAILER NUMBER
Ø2:22 PM	Ø2:32 PM			i
VEHICLE	DESCRIPTION: Property of	:	# OF RECYCLED BALES OUTBOUND	TRUCKING CO'S RELEASE NU!
MARDON AUSTIN	•			
	OTES		CADEX OR CUSTOM'S INFO	CCSWMD "PASS" NUMBEF
			TRUCKIN	G COMPANY
			DEC PART 364 HAULING PERMIT #	CCSWMD CONTAMINATED PEF

QUANTITY	UNIT	DESCRIPTION		RATE	EXTENSION	SURCHARGE	TOTAL
88.75	Ton C	ontaminated Soi	1 By We	eight \$5.	R5 \$119.	4 \$0.00	\$119.44
						i	

NET AMOUNT	TENDERED	CHANGE AMOUNT	CHECK NUMBER
\$119,44	\$ ଅ . ଅଥ	\$0.00	
		,	·

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here	X	بدائم المحتوف	50m22mm
•		· , /	, mar. 1

THESE MATERIALS CAME FROM THIS ADDF (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)



Cheming County Solid Waste Management District

1690 Eake Street, Box 588, Edmira, NY 14902-6588 Phone (607) 737-298) • Fax (607) 737-2967

490

Elmina City of Emina (Erie Street)

317 East Church Street

Attn: Ron Hawley (Erie St)

Elmira

ΝY 14901 Grey Jusick

TRANSACTION DATE	LICENSE PLATE, "T" or "C" NUA				
5/20/03	45203PA				
TICKET NUMBER	"B" or BOX NUMBER				
20004965					
INBOUND LOAD ORIGINATED FROM					

		• *			
INBOUND WEIGHT	. OUTBOUND WEIGHT	NET WEIGHT	į	DRIVE	R'S NAME
69780	5938Ø	40400	_		
TIME IN		TIME OUT		TRACTOR NUMBER	TRAILER NUMBER
Ø8:04 F	Ju O	មដ្ឋ AM			
	VEHICLE DESCRIPTION.	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	· · · · · ·	# OF RECYCLED BALES OUTBOUND	TRUCKING CO'S RELEASE NUIV
TMARCON AUSTIN	\ \				
	NOTES	9		CADEX OR CUSTOM'S INFO	CCSWMD "PASS" NUMBER
				TRUCKIN	G COMPANY .
				DEC PART 364 HAULING PERMIT #	CCSWIND CONTAMINATED PER

QUANTITY	UNI	DESCRI	PTION	RATE	EXTENSION	SURCHARGE	TOTAL
20.2	โดก	Contaminated	Soil By We	ight \$5.	25 \$106.	45 \$0.00	1128.25
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-			·				-
							1

NET AMOUNT	TENDERED	CHANGE AMOUNT	CHECK NUMBER
\$106.05	\$12,210	\$0.00	
		•	

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X

THESE MATERIALS CAME FROM THIS ADDRI

450

Elmina City of Emira (Erie Street)

317 East Church Street

Cheming County Solid Waste Management District

156 Hase Storet, Box 585, Elara, NY 14 (024)585. Phone (607) 737-2980 + Pax (607) 37-2967

Greg Jusick

Attn: Ro	on Hawle	ey (Erie St)				TRANSACTION	DATE.	LICENSE PLATE, "T" or "C" NUM
Elmira		NY	14901	5/20/03			45203PA	
				TICKET NUMBER			"B" or BOX NUMBER "."	
						2000498	Ø	
					:	.: <u>.</u> II	NBOUND LOAD	ORIGINATED FROM
		···						
INBOUND W		OUTBOUND WEIGHT	NET WEIGHT	: '			DRIVER	R'S NAME
746/00		29360	45240					
			TIME OUT		``	TRACTOR NU	MBER	TRAILER NUMBER
[9:00 AM		9:11 AM					
		HICLE DESCRIPTION	nylin 18 T	1	#.OF F	RECYCLED BALE	S OUTBOUND	TRUCKING CO'S RELEASE NUME
MAROON A	MRITH	***	1					
		NOTES	1	, , ,	: CA	DEX OR CUSTO	OM'S INFO	CCSWMD "PASS" NUMBER
					L.,			
i .					- Varia	5-2-19-6-1	TRUCKING	COMPANY (, , , ,
					050	PART 364 HAUL!	NO DEDMIT #	CCCIAGAD COAPTAA AIATATED DEDL
:					DEC	FART 304 HAULI	NG PEMIVILL#	CCSWMD CONTAMINATED PERM
:								
QUANTITY	UNIT	DESCR	IPTION.	RA	TĘ	EXTENSION	SURCHARGE	TOTAL
22152	Ton C	ontaminated	Soil By We	ight	\$5.	25 \$118.	76. \$0.00	\$118.7£
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ļ								
	NE.	T AMOUNT	TENDERED		CH	IANGE AMOUNT	CHE	CK NUMBER
	\$118	. 76	\$0.00			\$0.00		:
	71.10) u / C)	40.00 0 40.00			ti king santa	:	!
		•					<u>`</u>	
	Each har	uler must fill in th	e following info	rmatio	n and	sign, or dispe	osal privilege	s may be revoked.
I	certify that	the Material was al	l generated in Ch	emung	Count	ty and that it o	does not conta	in hazardous materials.
Cian II		W Co	A A CONTRACTOR OF THE SECOND			THES	E MATERIAL	S CAME FROM THIS ADDRE
Sign H	ere 🔽	<u> </u>	Tomate Town				(PLEASE FILL IN T	HE AUDRESS ON THE LINES BELOW)
		J. 1						
PRINT	Name	Grother L	7/800A	$A^{\cdot \cdot}$				
(110111		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 340 1 7				<u> </u>	
								



Chemung County Solid Waste Management District

1690 Lake Street, Box 588, E. n. a, NY 14902-0588 Plione (607) 737-2980 + Fax (607) 737-2967

-490 -Elmina (Citÿlof	Emira	Enië	Street)	数约3. 8 .	Gr	en Jusica	· '		1 1	, f () k	
317 Eas	t Churc	h Stre	et									
Attn: R	on Hawl	ey (Er	ie St)		. ja	1 (1994)	TRANSACTION	DATE :		LICENSE PLAT	E, <u>"</u> T".o	r."C" NUMBER
Elmira Citylof Emira (Erie Street) 317 East Church Street Attn: Ron Hawley (Erie St) Elmira NY 14901 TRANSACTION DATE : LICENSEPLATE; T.O. 5/20/03 45203PF TICKET NUMBER 180 ON NUME 20004993 1 180 ON DOME ON THE STREET ON THE												
	** /* .			-			"TTICKET NUME	BER:	** : . 	B"or B	NUN XC	MBER ` ::
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INBOUND W	EIGHT	OUTBOUND	WEIGHT	NET WEIG	SHT II.	;			RIVER'	S NAME .	``	÷ 11.
70180	;	29360			, .	•				, , .		11
	TIME IN STA	files comp) ((1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*TIME OUT	112	٦ ١	TRACTOR NUM	MBER ε	1 7	TRAIL	ER'NU	MBER ≨ 🛉
[Z)*					-					7 6 4		<u>i .</u>
_	V: : . : V	EHICLE DE	SCRIPTION	V. Samonia I'V		#.OF I			UND	TRUCKING, CO)'S RELE	ASE NUMBER
MARCON A	AUSTIN		,				<u></u>					
	and the second	NOT	ES	S CA WAY CO.	- 11	: CA	DEX OR CUSTO	M'S INF	5	CCSWMD	"PASS"	NUMBER :
	.7.			`# · ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	;	•				,		.1
1					:	-11	Stephen Late Care	Ţ, Ţ,R	UCKING	COMPANY.:	1,4	1 - 1 - 1
							·	_				·
•						DEC	PART 364 HAULII	NG PERM	1T #	CCSWMD CO	NTAMINA	TED PERMIT
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							1				TOTAL	
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EU, 41	Ton	lontam	inated	Soil By	Weight	\$5.	25 \$107.	15 \$6	1. WW	\$ 1 10 / 1	12	2.1 -
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Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

THESE MATERIALS CAME FROM THIS ADDRESS (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)

164°

1690 Lake Street, Box 588, Elmar, 185, 14902-6888 Phone (607) 737-2980 - 1 ax (c07) 737-2-67 Ý

90 lmira City of Emira (Erie Street) 17 East Church Street oth: Ron Hawley (Erie St)

Greg Jusick

ittn: Ron Hawley (Erie St)				TRANSACTION	DATE	LICENSE PLATE, "T" or "C" NUMBER
T m i C B	14901			5/20/03		45203FA
			1	TICKET NUME	BER	"B" or BOX NUMBER
				2000501	9	•
				IN	BOUND LOAD C	DRIGINATED FROM
INBOUND WEIGHT OUTBOUND WEIGHT	NET WEIGHT	* .	.,	1	DRIVER	'S NAME :
TIME IN 2016 CONTROL OF CONTROL OF	TIME OUT	1:	` }	TRACTORNUM	MBER :	TRAILER NUMBER
11:43 AM 2 11	:53 AM			•	I	_
VEHICLE DESCRIPTION	Street Street		# OF F	ÉCYCLED BALE	S OUTBOUND	TRUCKING, CO'S RELEASE NUMBER
MRCOH AUSTIN						
NOTES	e e e e e	•	: CA	DEX OR CUSTO	M'S INFO	CCSWMD "PASS" NUMBER
•						
•			,		TRUCKING	COMPANY -
			DEC F	PART 364 HAULIN	NG PERMIT #	CCSWMD CONTAMINATED PERMIT
					1	
QUANTITY UNIT DESCRI	PTION	RA	TE	EXTENSION	SURCHARGE	TOTAL

 NET AMOUNT	TENDERED	CHANGE AMOUNT	CHECK NUMBER	
#106.37	\$1712 (717)	\$2.00		

Contaminated Soil By Weight \$5.25 \$106.87 50.00

Each hauler must fill in the following information and sign, or disposal privileges may be revoked.

I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X

Jan G. Cone

THESE MATERIALS CAME FROM THIS ADDRESS (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)

490

Cheming County Solid Waste Management District 690 Lake Street, box 5 × E mad, NY 14502-058 Phone (6)(7)(737-298) + Fax (od7)(737-2907)

TRANSACTION DATE LICENSE PLATE, TO O'C NUMBER 5/20/03 4-5/2079A TICKET NUMBER: 18 or BOX NUMBER 10 or BOX N	Elmina (City o	f:Emira (Erie ch Street	Street)		Θ۲	eg Jusicl	≺		
NSOUND WEIGHT OUTBOUND WEIGHT NET WEIGHT DRIVER'S NAME							TRANSACTION	DATE	LICENSE PLATE	"T" or "C" NUMB
TICKET NUMBER BY OF BOX NUMBER 200050005 INBOUND LOAD OR-GINATED FROM. INBOUND LOAD OR-GINATED FROM. INBOUND LOAD OR-GINATED FROM. INBOUND LOAD OR-GINATED FROM. INBOUND LOAD OR-GINATED FROM. INBOUND LOAD OR-GINATED FROM. INBOUND LOAD OR-GINATED FROM. INBOUND LOAD OR-GINATED FROM. INBOUND LOAD OR-GINATED FROM. INBOUND LOAD OR-GINATED FROM. INBOUND LOAD OR-GINATED FROM. ITALER NUMBER TRACTOR NUMBER						1: 2		1		
INBOUND WEIGHT OUTBOUND WEIGHT NET WEIGHT DRIVER'S NAME 29360 374600 TIME IN 2 TIME OUT 10:51 AM 11:00 AM VEHICLE DESCRIPTION FOR ECYCLED BALES OUTBOUND TRUCKING CO'S RELEASE NUMBER **OF RECYCLED BALES OUTBOUND T	C. 1 111 2 1 C.		.,.			: ' ~		REB !		
INBOUND WEIGHT OUTBOUND WEIGHT NET WEIGHT SAME 29360 37460 TIME OUT TRACTOR NUMBER TRAILER NUMBER 10:51 AM 11:00 AM VEHICLE DESCRIPTION FOR RECYCLED BALES OUTBOUND TRUCKING CO'S RELEASE NUMBER **OF RECYCLED BALES						_			B di BOX	TOWNELLI
TIME NOTES TIME OUT TIME OUT TRACTOR NUMBER TRACTOR NUMBER TRACTOR NUMBER TRACTOR NUMBER TRACTOR NUMBER TRACTOR NUMBER TRACTOR NUMBER TRACTOR NUMBER TRACTOR NUMBER TRACTOR NUMBER # OF RECYCLED BALES OUTBOUND # OF RECYCLED BALES OUTBOUND # OF RECYCLED BALES OUTBOUND # OF RECYCLED BALES OUTBOUND # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES # OF RECYCLED BALES #				·		• ;	N	IBOUND LOAD (DRIGINATED FROM	. : 1 1
TIME IN 11: 00 AM VEHICLE DESCRIPTION NOTES DEC PART 364 HAULING PERMIT # CCSWMD CONTAMINATED PERMIT TRUCKING COMPANY; DEC PART 364 HAULING PERMIT # CCSWMD CONTAMINATED PERMIT 19: 73 Fon Contaminated Soil By Weight \$5. 25 \$98.3 100.00 \$93.33 NET AMOUNT TENDERED CHANGE AMOUNT CHECK NUMBER PART AMOUNT TENDERED CHANGE AMOUNT CHECK NUMBER Sign Here Contaminated Soil By Weight Sign, or disposal privileges may be revoked. Sign Here Contaminated Soil Chemung County and that it does not contain hazardous materials. THESE MATERIALS CAME FROM THIS ADDRES.			·				_			
TIME IN 11:00 AM 10:51 AM 11:00 AM WEHICLE DESCRIPTION NOTES POF RECYCLED BALES OUTBOUND TRUCKING CO'S RELEASE NUMBER **OF RECYCLED BALES OUTBOUND TRUCK		/EIGHT			1	i		DRIVER	SNAME	
#OF RECYCLED BALES OUTBOUND TRUCKING CO'S RELEASE NUMBER #OF RECYCLED BALES OUTBOUND TRUCKING CO'S RELEASE NUMBER #OF RECYCLED BALES OUTBOUND TRUCKING CO'S RELEASE NUMBER #OF RECYCLED BALES OUTBOUND TRUCKING CO'S RELEASE NUMBER CADEX OR CUSTOM'S INFO COSWMD 'PASS' NUMBER TRUCKING COMPANY	68880						·			
WENTER DESCRIPTION NOTES #OF RECYCLED BALES OUTBOUND TRUCKING CO'S RELEASE NUMBER					1.		TRACTOR NUM	MBER	TRAILER	NUMBER
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NOTES CADEX OR CUSTOM'S INFO COSWMD "PASS" NUMBER			VEHICLE DESCRIPTION	popular to the	:	#:OF	RECYCLED BALE	S OUTBOUND	TRUCKING CO'S F	ELEASE NUMBI
DEC PART 364 HAULING PERMIT * CCSWMD CONTAMINATED PERMIT 19.73 For Contaminated Soil By Weight \$5.25 \$98.3 \$10.00 \$93.32 Net amount Tendered Change amount Check Number	MARGON A	AUSTIN							<u>-</u>	
DEC PART 364 HAULING PERMIT # CCSWMD CONTAMINATED PERMIT OUANTITY UNIT DESCRIPTION RATE EXTENSION SURCHARGE TOTAL 19.73 Fon Contaminated Soil By Waight \$5.25 \$98.3 \$10.00 \$93.33 NET AMOUNT TENDERED CHANGE AMOUNT CHECK NUMBER \$98.33 \$0.00 \$0.00 Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials. Sign Here THESE MATERIALS CAME FROM THIS ADDRESS ON THE LINES BELOW)		.,	NOTES		١.	ii ca	DEX OR CUSTO	M'S INFO	CCSWMD "PAS	SS" NUMBER
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DUANTITY UNIT DESCRIPTION RATE EXTENSION SURCHARGE TOTAL 19.73 For Contaminated Soil By Waight \$5.25 †98.3 †0.00 \$93.33 NET AMOUNT TENDERED CHANGE AMOUNT CHECK NUMBER \$98.33 \$0.00 \$0.00 Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials. Sign Here THESE MATERIALS CAME FROM THIS ADDRESS ON THE LINES BELOW)	1					DEC	DADT 264 HALLIA	IC DEDMIT	CCCMMD CONTA	AINIATED DEDIA
NET AMOUNT TENDERED CHANGE AMOUNT CHECK NUMBER \$98.33 \$0.00 \$0.00 Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials. Sign Here THESE MATERIALS CAME FROM THIS ADDRESS ON THE LINES BELOW)						DEC	PART 304 HAULII	NG FERIVIT #	CCSVVIVID CONTAI	AINATED PENINI
NET AMOUNT TENDERED CHANGE AMOUNT CHECK NUMBER \$98.33 \$0.00 \$0.00 Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials. Sign Here THESE MATERIALS CAME FROM THIS ADDRESS ON THE LINES BELOW)	i									
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Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials. Sign Here THESE MATERIALS CAME FROM THIS ADDRESS ON THE LIMES BELOW.)	18.73	Ton	Contaminated	Soil By Wa	ight	\$5.	25 498.3	୍ ୪୯% ଓଡ଼ି	\$ 93. BB	
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Sign Here X 2/2 THESE MATERIALS CAME FROM THIS ADDRESS ON THE LIMES BELOW)	I	certify th	at the Material was a	ll generated in Ch	iemun	g Coun	ty and that it o	loes not conta	in hazardous ma	terials.
			01 63			_				
PRINT Name (1964) And And And And And And And And And And	Sign H	iere 🗡	Kymen & M.	Harris Charles				(PLEASE FILL IN T	HE ADDRESS ON THE LIF	JES BELOW)
PRINT Name 1 200 de la 1 ml Martin M				,	,					
TININI INDINO 1727 III W TIGGE WALLER	PRINT	Name	OFFE & LO	11841621	ŗ					

hemung County Solid Waste Management District

1690 Lake Street, box 288 T Indian NY | 4962 0558 Phone (607) 737-2980 | + 1 ax +697 | 737-2967

C

490 Elmina City of Emina (Enie Street) Greg Jusick 317 East Church Street Attn: Ron Hawley (Erie St) TRANSACTION DATE LICENSE PLATE, "T" or "C" NUI 5/20/03 Elmira NY - 14901 45203PA TICKET NUMBER "B" or BOX NUMBER 20005032 INBOUND LOAD ORIGINATED FROM INBOUND WEIGHT OUTBOUND WEIGHT **NET WEIGHT** DRIVER'S NAME 72000 42620 29380 TIME IN STATE 1 100 TIME OUT TRACTOR NUMBER TRAILER NUMBER 12:39 PM 12:49 PM VEHICLE DESCRIPTION ជ្ជា : # OF RECYCLED BALES OUTBOUND TRUCKING CO'S RELEASE NUM MOROON AUSTIN NOTES CADEX OR CUSTOM'S INFO CCSWMD "PASS" NUMBER TRUCKING COMPANY, DEC PART 364 HAULING PERMIT # CCSWMD CONTAMINATED PER QUANTITY UNIT DESCRIPTION EXTENSION SURCHARGE TOTAL Contaminated Soil By Welight 21.31 Ton \$111.BE **NET AMOUNT** TENDERED CHANGE AMOUNT CHECK NUMBER \$111.88 \$0.00 \$0.00

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

THESE MATERIALS CAME FROM THIS ADDR (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW) Sign Here X PRINT Name

Chemung County Solid Waste Management District

to90 Lake Street Box 558, Elman NY 14902-0588 Phone (607) 737-2930 - Hax (607) 737-2967

Elmina City) of Emira (Erie Street)

317 East Church Street Attn: Ron Hawley (Erie St)

Elmira

EURADS PRIMAING DE MISEHEAUS NY 14845-2895

19.94

NY 14901 Greg Jusick

TRANSACTION DATE	LICENSE PLATE, "T" or, "C" NU
5/20/03	45203PA
TICKET NUMBER	" "B" or BOX NUMBER
20005039	
INBOUND LOAD	ORIGINATED FROM 17 (3)

6.9

\$0. 2£

	•							
INBOUND WEIGHT OUTBOUND WEIGHT NET WEIGHT							DRIVER	S NAME .
69300	ć	29420	35880					
	IME IN CO.	1.0	* TIME OUT	:	١.,	TRACTOR NUM	ABER!	TRAILER NUMBER
Ø1:	:31 PM		01:40 PM					
. *	V	HICLE DESCRIPTI	ON waterway Fig. 1.1	. ';	#-OF P	ECYCLED BALE	SOUTBOUND	TRUCKING CO'S RELEASE NU
	JSTIN							
11	3.77 × 4.77 × 3.	NOTES	y to a transfer	· ;i	· CA	DEX OR CUSTO	M'S INFO	CCSWMD "PASS" NUMBER
		•						
						one and it	TRUCKING	COMPANY
:		•			:DEC F	PART 364 HAULIN	NG PERMIT#	CCSWMD CONTAMINATED PE
QUANTITY	UNIT	DES	SCRIPTION -	B.A	ATE	EXTENSION	SURCHARGE	TOTAL
,	0							

NET	AMOUNT	TENDERE	D CI	HANGE AMOUNT	CHECK	KNUMBER
\$104.	. 69	\$120, (202)		. \$121.61121		

Contaminated Soil By Weight \$5.25

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Ton

THESE MATERIALS CAME FROM THIS ADD IN (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)

\$104.69

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90 lmina Dity of Emira (Erie Street) 17 East Church Street ttn: Ron Hawley (Erie St)

🧎 : Greg Jusick

TRANSACTION DATE	LICENSE PLATE, "T", or "C" NUMBE				
5/20/03	45803PA				
TICKET NUMBER	"B" or BOX NUMBER				
20005052					
INBOUND LOA	D ORIGINATED FROM				
DRIVI	ER'S NAME				
TRACTOR NUMBER	TRAILER NUMBER				

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NY

14901

OF RECYCLED BALES OUTBOUND TRUCKING CO'S RELEASE NUMBER

CADEX OR CUSTOM'S INFO CCSWMD 'PASS' NUMBER

TRUCKING COMPANY

DEC PART 364 HAULING PERMIT # CCSWMD CONTAMINATED PERMIT #

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NET AMOUNT	TENDERED	CHANGE AMOUNT	CHECK NUMBER	
\$99 . 54	\$Ø. ØØ	\$0.00		

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here	X	0780	Cook of the	,	٠
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THESE MATERIALS CAME FROM THIS ADDRESS: (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)

PRINT Name

Ry Coleman



Cheming County Solid Waste Management District

1090 Lak (Street Box 558, Elmar), 35/4/002/t/85/ Photie (CJ7, 757, 986) + 1 ax (C67, 737, 276)



lmina.City of Emira (Erie Street) 7 East Church Street

Greg Jusick

- 7 wast	t Uhunci	n Stre	et								
tn: Ro	on Hawl	ey (Er	ie St)					TRANSACTION	DATE	LICENSE PLATE, "T	" or "C" NUMBER
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Each hauler must fill in the following information and sign, or disposal privileges may be revoked.

I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here 🗶

Deep Bettle

THESE MATERIALS CAME FROM THIS ADDRESS: (FLEASE FILL IN THE ADDRESS ON THE LINES BELOW)

RINT Name

Grey Steller

Cheming County Solid Waste Management District

1690 Lake Stress, Box 38 J. Hanna, NY 49 E 6553

COSTOMER				.ab	Paone (6(**) ** (7-29	od + Pay (607 7-7 2567
490 Elmina City: 317 East Chu	of Emira (Eric rch Street	Street)		Breg Jus	sick	
	wley (Erie St)			TRANSAC'	TION DATE	LICENSE PLATE, "T" or "C".NU
Elmira	NY			5/20/2		45006PA
					NUMBER	"B" or BOX NUMBER
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	NOTES		;, <u> </u>	CADEX OR CL	USTOM'S INFO	CCSWMD "PASS" NUMBER
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\$106.58 \$0.00 \$0.00

Each hauler must fill in the following information and sign, or disposal privileges may be revoked.

I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

THESE MATERIALS CAME FROM THIS AND THE ADDRESS ON THE LINES AND ON THE PROPERTY OF THE Sign Here X

THESE MATERIALS CAME FROM THIS ADDR (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)

Elmira



Chemung County Solid Waste Management District

1690 faste Street, dox 1851 dlmm, NY | 4902-0588 Phone | 60°1 717-2983 | + Eav (607 | 737 | 2967

Cheming County Solid W 1690 faste Street, dog 18 Phone | 60" (747-298)

490 Elmina City of Emina (Enie Street) 317 East Church Street Actn: Ron Hawley (Enie St)

NY

14901

主義の例4771 INBOUND LOAD ORIGINATED FROM

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INBOUND WEIGHT OUTBOUND WEIGHT NET WEIGHT			ì	DRIVER'S NAME					
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BlueAustinTr	uck Erie&Home								
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\$96.00 \$0.00 \$0.00

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I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

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THESE MATERIALS CAME FROM THIS ADDRES (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)

PRINT Name

* . . .



490 Elmira D 317 East				Stree	t)		Ly	nn T. F	ield Sy			
Attn: Ro								TRANSACTIO	N DATE.	.: 1	LICENSE PLATE, "T"	or "C" NUM
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Sign H	ere 🗶	1/10	1 811.	Le				THE	SE MATERI	ALS	CAME FROM THE	SADDE

PRINT Name

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Chemung County Soilo Waste Management District

16/0 Lake Speed Lox 558, Elonia NY | 4902-0585 Phone (007) 737-2980 | (max 30)7, 737-2967

Lynn T. Field Jr. -

Attn: Ron Hawley (Erie St)	COSTOMER	
· · · · · · · · · · · · · · · · · · ·	490 Elmina City of Emina (Enie 317 East Church Street	Street)
	Attn: Ron Hawley (Erie St) Elmira NY	14901

TRANSACTION DATE	LICENSE PLATE, "IT" or "C". NUI.
5/16/23	71022
TICKET NUMBER	"B" or BOX NUMBER"
20004786	
INBOUND LOAD	ORIGINATED FROM
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·								
INBOUND WI	EIGHT .	OUTBOUND WEIGHT	NET WEIGHT		-	,	DRIVER	'S NAME .
75580		31780	43800			96	eq Stotia	er Parmit 03-16
Ţ	TIME IN (20)	1 11 11/19 1 10 1	TIME OUT	1 t	``	TRACTOR NUM	MBER ·	TRAILER NUMBER
	:40 AM	1:	1:50 AM					
:	V	EHICLE DESCRIPTION	a sa sa sa sa sa sa sa sa sa sa sa sa sa	, .	# OF F	ECYCLED BALE	S OUTBOUND	TRUCKING CO'S RELEASE NUME
BlueAust	inTruc	k Erie&Homa						
1 -		NOTES	* * ***	:	: CA	DEX OR CUSTO	M'S INFO	CCSWMD "PASS" NUMBER
						nosig cor ico	TRUCKING	COMPANY
					DEC	PART 364 HAULIN	NG PERMIT#	CCSWMD CONTAMINATED PERM
QUANTITY	UNIT	DESCR	IPTION	RA	TE	EXTENSION	SURCHARGE	TOTAL
21.9	Ton	Contaminated	Soil By We	ight	\$5.	25 \$114.	98 17.60	\$.34.58

NET AMOUNT	TENDERED	CHANGE AMOUNT	CHECK NUMBER
\$114.98	50.00	‡Ø.ØØ	

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X

THESE MATERIALS CAME FROM THIS ADDRE: (PLEASE FILL IN THE ADDRESS ON THE LIMES BELOW)

20.39



gement District

14902-0585 14902-0585 1130-2960

1125.47

Greg Jusick

Chemung County Solid Waste Manag
1690 Lake Street, Box 558 E. Lira, NY 1
Phone (6) 7 (737-298) (+ Fax (60%)

490 Elmina City of Emira (Erie 217 East Church Street	Street)
Attn: Ron Hawley (Erie St)	14901

TRANSACTION DATE	LICENSE PLATE, "T" or_"C" NUM			
5/19/03	45206PA			
TICKET NUMBER	"B" or BOX NUMBER " "			
20004912				
INBOUND LOAD ORIGINATED FROM				

•							1
INBOUND WEIGHT	OUTBOUND WEIGHT	NET WEIGHT	4			DRIVER	'S NAME
72720	32540	40180					
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 NET AMOUNT	TENDERED	CHANGE AMOUNT	CHECK NUMBER	

Contaminated Soil By Weight \$5.25

\$105.47 \$0.00 \$0.00

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Sign Here X Stell Shall	THESE MATERIALS CAME FROM THIS ADDRI
PRINT Name April 1997	

Chemung County Solid Waste Management District 169 (Like's), ac. Lox 588, i.h. am. 5Y 150,24-88 Phoae (GI7) 737, 980 + 4 ax GU7) 137-2-67



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ign Here X Hay Still THESE MATERIALS CAME FROM THIS ADDRESS:	Lign Here X Hay Still	, or disposal	privileges	s may be revoked	1.
	· · · · · · · · · · · · · · · · · · ·				
	· · · · · · · · · · · · · · · · · · ·	THESE MA	AT ERIALS EAS E FILL IN TH	S CAME FROM TI HEADDRESS ON THE LINE	HIS ADDRESS:
	RINT Name Loca Statler				
DINT Name () () () ()	3 K IIV I INAITIE /2/2/2 3/4/2/2/ *				
KINI Name 15/64 Hotel #	177 TOTAL TRANSPORT				

Cheming County Solid Waste Management District

To90 Lake Street, hos 588. Elitin JNY 14/02-0588 Pino te (not) 7.77/25/80 (c) Fax (6/7) 737-2967

490

317 East Chur				· ·	nn T. Fi		1105105 01 175 175	
Attn: Ron Hav Elmina	ttn: Ron Hawley (Erie St) Imira NY 14901				5/16/03		LICENSE PLATE, "T	
					TICKET NUMI	BER	"B" or BOX NU	MBEF
, s - 1	to a				2000481	22	i ,	
•				: !		NBOUND LOAD	ORIGINATED FROM	· 1: 2:
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76E40	32160	44080	[fg.5	en Svoti	er Permit 03	-16
TIME IN	prototo grades rea	TIME OUT	Ţ:	<u>'\</u>	TRACTOR NU		TRAILER N	JMBEF
@2:27_F		08:36 PM						
1 .	VEHICLE DESCRIPTION	V (41 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		# OF F	RECYCLED BALE	SOUTBOUND	TRUCKING CO'S REL	EASE
BlueBustinTru	ck Erie&Home		{					
	NOTES	e from the	· .i [; ÇA	DEX OR CUSTO	M'S INFO	CCSWMD "PASS	" NUME
		•][
				7 i	and the second of the second	TRUCKIN	G COMPANY	<u>. · </u>
							, 	
				DEC	PART 364 HAULI	NG PERMIT#	CCSWIND CONTAMIN	IATED F
·							<u> </u>	
QUANTITY UNIT	UNIT DESCRIPȚION RA		RAT	Έ.	EXTENSION	SURCHARGE	TOTAL	L · ·
22.04 Ton	Contaminated	Soil By We	ight	\$5.	25 \$115.	71 ඈව. ඔය	\$115,71	
٠.	;							
	NETAMOUNT	TENDERED		CH	ANGE AMOUNT	Chi	CK NUMBER]
7;]	\$115.71 · \$0.00				70.02			

Each haufer must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X	Her Starte	THESE MATERIALS CAME FROM THIS ADD (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)
	1/1	1. (1. (1. (1. (1. (1. (1. (1. (1. (1. (
PRINT Name	breg Striffer	

F

HOP" HEADS PHINTING HORSEHEADS NY 148MS 20893 330031172

Cheming County Solid Waste Management District

1690 Lave Street, Box 588, Elinia, NY 14902-0588 Phone (507) 137-1980 (*) Fax (C)77, 737, 2967

490 Elmina Dity of Emira (Erie Street) 317 East Church Street

Lynn T. Field Jr. -

Attn: R	on Haw	ley (Erie St)	,	L	+	THANSACTION	DAIE	LICENSE PLATE, "I".	or "C"_NUM
Elmina		N'				5/16/03		71000	
<u> </u>						TICKET NUME	BER 1 11 11	"B" or BOX NU	MBER"
	* ,					2000 48C	4.		
					;	In	BOUND LOAD	RIGINATED FROM :	W 3 15
		•							
INBOUND W	/EIGHT	OUTBOUND WEIGHT	NET WEIGHT	#	- }	,	. DRIVER	'S NAME	****
73360 32060 41300						3.1	en Statia	- Parkit 03	-16
ļ	TIME IN	nd denský i j	**TIME OUT	:.	3)	TRACTOR NU	MBER	TRAILER NU	MBER
- Zi:	1:30 P		01:40 PM						
. 1		VEHICLE DESCRIPTION	Ŋ, ., . t tr - tr	[# OF F	RECYCLED BALE	S OUTBOUND	TRUCKING CO'S REL	EASE NUME
AlbeAnsi	tinTru	ck Erie&Home		[
1.		NOTES			T. CA	DEX OR CUSTO	M'S INFO	CCSWMD "PASS"	NUMBER
	•								
					• 1	Long to Long to the	TRUCKING	COMPANY.	·
					·DEC	PART 364 HAULIN	IG PERMIT #	CCSWMD CONTAMIN	ATED PERM
				L					
QUANTITY	UNIT	DESC	RIPTION	RAT	E	EXTENSION	SURCHARGE	TOTAL	
20.65	Ton	Contaminated	Soil By We	inht	\$5.	25 \$108.	+1 +2: 800	i v.8.4:	
			,				,		
								<u>:</u>	
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	\$ 1.0	Ø8.41	\$ Ø . ØØ			40.00	1		

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X

THESE MATERIALS CAME FROM THIS ADDRE (PLEASE FILL IN THE ADDRESS ON THE LIMES BELOW)

Cheming County Solid Waste Management District

16: 11 dk : \$52et Box 553, 2 m/a NY 1-011438: Thore to 7: 737-1980 - Fax: 5077-371296

Lynn T. Field Jr.

490			
Elmira	Dity of Emira	(Erie	Street)
317 Eas	st Church Stree	ŧŧ	
Attn: F	on Hawley (Eri	e St)	
Fluira		NY	14901

	TRANSACTION DATE	LICENSE PLATE, "T" or "C" NUL
	5716703	T (2) 抗性(性管)
ı	TICKET NUMBER	"B" or BOX NUMBER
	20004779	
	INBOUND LO	AD ORIGINATED FROM A SECOND 1 4

•				
INBOUND WEIGHT	OUTBOUND WEIGHT	NET WEIGHT	DRIVE	R'S NAME
67760	28620	39140	Bary Colen	an Permish បិនិ-16
TIME IN	and that a life of the second	TIME OUT	TRACTOR NUMBER	TRAILER NUMBER
11:14 6	<u> </u>	1:23_AM		
	VEHICLE DESCRIPTION		# OF RECYCLED BALES OUTBOUND	TRUCKING CO'S RELEASE NUM
RedSustinTruc	<u>ok Erie&Home</u>			
	NOTES		CADEX OR CUSTOM'S INFO	CCSWIND "PASS" NUMBER
			TRUÇKIN	G COMPANY III
			DEC PART 364 HAULING PERMIT #	CCSWIMD CONTAMINATED PERI
 				1

	QUANTITY	UNII	DESCH	IPTION	HATE	EXTENSION	SURCHARGE	IOTAL	:
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									I
		NE	T AMOUNT	TENDERED	CH	IANGE AMOUNT	CHECK	NUMBER	

NET AMOUNT _		TENDERED	CHANGE AMOUNT	:_	CHECK NUMBER	
\$102.74	,	\$21. 200	\$0.00			

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X

THESE MATERIALS CAME FROM THIS ADDRI

Chemung County Solid Waste Management District

1590 Lake Street, Box 585, (Ilmina, NY) (49)2-0588 Phone | 6(7) 737-295 | Fax (607 | 757-2957

Elmina City of Emina (Enie Street)

317 East Church Street

UNIT

Attn: Ron Hawley (Erie St)

Elmina

QUANTITY

490

14901

Lynn T. Field Jr.

TRANSACTION DATE	LICENSE PLATE, "T" or "C" NUMB
5/16/03	MRHCK#PP
TICKET NUMBER	"B" or BOX NUMBER
20004802	1
!' INBOUND LOAD	ORIGINATED FROM, Color From

SURCHARGE

•					
INBOUND WEIGHT ,	OUTBOUN	D WEIGHT .	NET WEIGHT		DRIVER'S NAME
74000	28800		45200		Gary Coleman Permit# 03-16
TIME IN ¹⁰	Tid soff, d		TIME OUT	,	TRACTOR NUMBER TRAILER NUMBER
01:16 P	M	(<u>Z</u>) :	1:25 PM		
1	VEHICLE DE	ESCRIPTION	military to the		#:OF RECYCLED BALES OUTBOUND TRUCKING CO'S RELEASE NUMBER
RedAustinIrus	k Erie	И-1оше			
***	, NO.	TES	e compa		CCSWMD "PASS" NUMBER
					V.
					TRUCKING COMPANY
		,	,		DEC PART 364 HAULING PERMIT # CCSWMD CONTAMINATED PERMI
II .					

	NE	TAMOUNT	TENDER	D	CHANG	E AMOUNT	CHE	CK NUMBER	
	·								
EE.6	Ton C	ontaminated	Soil By U	Weight	\$5. 25	\$118.6	5 40,00	\$118.	00

\$118.65 \$0.00 \$0.00	NET AMOUNT	TENDERED	CHANGE AMOUNT	CHECK NUMBER
	\$118.65	\$Ø. ඔወ	\$0.00	

RATE

EXTENSION

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X

THESE MATERIALS CAME FROM THIS ADDRES (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)

PRINT Name

DESCRIPTION

TOTAL



Cheming County Solid Waste Management District 109 Uske Street Liv 550 (1 to 1 NY 147), 0335 Phone (607 73 -278 U + 1 (1607) 737 204



400 18 19 0

limina (817 Elasi				Street)		Gr e	g Jusici			
rta: R						T	RANSACTION	DATE	LICENSE PLATE, "T"	or "C" NUMBE
in a rea		,	NA	14901		5/20/03			456:066	
					-	: .	TICKET NUME	BER	"B" or BOX NU	MBER -
						_	2000502	4		
							11	NBOUND LOAD	ORIGINATED FROM	i ar i
INBOUND W	/EIGHT	OUTBOUN	ID WEIGHT	NET WEIGHT				DRIVE	R'S NAME	
0300		32980		47380						
- <u>-</u>			109	TIME OUT			TRACTOR NUM	MBER	TRAILER NU	MBER
1.2	:06 P	M	1 2	1:14 PM		<u></u>				
		VEHICLE D	ESCRIPTION.	14225	:]	# OF RE	CYCLED BALE	S OUTBOUND	TRUCKING CO'S RELI	EASE NUMBER
LUL AUS	RITE									
	• ••	NO	TES	• • • •	.	: CAD	EX OR CUSTO	M'S INFO	CCSWMD "PASS"	NUMBER ::
					-	. [TRUCKIN	G COMPANY .	
						DEC PA	ART 364 HAULII	NG PERMIT#	CCSWMD CONTAMINA	ATED PERMIT
QUANTITY	UNIT		DESCR	IPTION '	RATE		EXTENSION	SURCHARGE	TOTAL	
D. E.B	Ton	Contai	minated	Suil By We	ight	45.	25 (124.)	1129 - 200 - 2000	1114.88	
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		NET AMOU	NT	TENDERED		СНА	NGE AMOUNT	CHE	CK NUMBER	
	9:1	24, 22	,	\$ (2) (2) (2)			\$0.00		i	
		- 1 4 42, 1007								
									,	
	Each	hauler mu	ist fill in th	e tollowing infor	rmation	and si	ign, or dispo	osai privilege	s may be revoked.	. ,

I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

THESE MATERIALS CAME FROM THIS AI

Sign Here X	HU Me	the	 THESE MATERIALS CAME FROM THIS ADDRESS (PLEASE FILLING HE ALDRESS ON THE LINES BELOW.)
PRINT Name	6189	Stella	



Cheming County Solid Waste Management District

1690 take Street Bit (588) dam a NY 149/2 (588) Phone (50.7) (37/2580) + Pax (5/7) 75/7-29/7



Imira City of Emira (Erie Street)

	_		
Gren	Ju	5 1	.c⊦

i Esst Unurch Street					
n: Ron Hawley (Erie St)		TRANSACTION DATE	: LICENSE PLATE, "T" or "C" NUMBER		
•	14901	5/20/03	4 58:06FA		
		TICKET NUMBER	'B" or BOX NUMBER		
		20005037			
		INBOUND LOAD ORIGINATED FROM			
OUND WEIGHT OUTBOUND WEIGHT	NET WEIGHT 71980	DRIVE	R'S.NAME		
	ME OUT	TRACTOR NUMBER	TRAILER NUMBER		
VEHICLE DESCRIPTION		# OF RECYCLED BALES OUTBOUND	TRUCKING CO'S RELEASE NUMBER		
T AUSTIN					
NOTES		CADEX OR CUSTOM'S INFO	CCSWMD "PASS" NUMBER		
		TRUCKING COMPANY.			
		DEC PART 364 HAULING PERMIT #	CCSWIAD CONTAMINATED PERMIT #		
AATTY LINIT DECORIDE	ON BA	TE EVTENICION CHIDOLIA ZOT	TOTAL		

TITANTITY	UNIT	Di	ESCRIPTION		RATE	<u> </u>	XTENSION	SURCHARGE	TOTAL	
95	Ton	Contaminat	ed Soil	By We	ight	\$5. 25	\$110.	20 fg. 20	1018.22	
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•		NET AMOUNT	T	ENDERED		CHAN	GE AMOUNT	C::E0	KNUMBER	
ſ	31	10.20	40	. 00		4	0.00			
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Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X Met Shills	THESE MATERIALS CAME FROM THIS ADDRESS:
RINT Name / Shiffer	



Chemiung County Solid Waste statiagediene District 16941 ake Sneet Boy 588, Elin a NY 14962-0588 Phone (607) 737-2980 + Fa : 607) 737-2967

Lynn T. Field Jr.

A CD17s					•
4 2 6	S	1,121,2			51 ()
Elmira	a Cit	y of E	mira	(Erie	Street)
317 Ea	ast C	hurch	Stree	t	
Attn:	Ron	Hawley	(Eri	e 5t)	
That sees	:.			MY	14901

TRANSACTION DATE	LICENSE PLATE, "T", or "C" NUME
5716703	TRUCKIPO
TICKET NUMBER	"B" of BOX NUMBER"
20004768	

INBOUND LOAD ORIGINATED FROM

INBOUND WEIGHT	OUTBOUNI	D WEIGHT	NET WEIGHT		: DRIVE	R'S NAME
68920	28640		40280		Gary Colem	an Fermit# 03-16
	וינידופי סטראי	2 3 y 10 1 x	TIME OUT	:	TRACTOR NUMBER	TRAILER NUMBER
10:18	AM ·	1.0	0:28 AM			7 to 1 to 1
	VEHICLE DE	SCRIPTION			# OF RECYCLED BALES OUTBOUND	TRUCKING CO'S RELEASE NUMBI
RedAustinTro	uck Erie8	Home				
	NOT	res		٠.	CADEX OR CUSTOM'S INFO	CCSWMD "PASS" NUMBER
					TRUCKIN	G COMPANY :
					DEC PART 364 HAULING PERMIT #	CCSWMD CONTAMINATED PERMI

QUANTITY	UNIT	DESC	RIPTION	RATE	EXTENSION	SURCHARGE	TOTAL
30.14	Ton C	ontaminated	Soil By W	eight \$5.	25 \$105.	74 \$2. 20	\$105.74
	-						
	;						
	NE	TAMOUNT	TENDERE) C	HANGE AMOUN	CHEC	KNUMBER

 NET AMOUNT
 TENDERED
 CHANGE AMOUNT
 CHECK NUMBER

 \$105.74
 \$0.00
 \$0.00

Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X

Son Lolum

THESE MATERIALS CAME FROM THIS ADDRES (PLEASE FILL IN THE 4DDRESS ON THE LINES BELOW)

PRINT Name

TARY Lelenn

Elmina

Chemung County Solid Waste Management District

1664), il. Street, Box (8), Elliorth N 1, 46 (2, 1883) Photo (+17) (73 - 2883) (+ Eux co. 7, 7575) (47)

490 Elmina Dity of Emira (Erie Street) 317 East Church Street Attn: Ron Hawley (Erie St)

MΥ

14901

Lynn T. Flesd Jr. :

IFTRANSACTION DATE	, LICENSE PLATE, "T", or "C" NUN
512.1.6.2003	2015年100代封持56
TICKET NUMBER	" "6" or BOX NUMBER"
20004757	
1; INBOUND LOAD	ORIGINATED, FROM, A. F. Briston

: 1	NET WEIGHT	OUTBOUND WEIGHT	INBOUND WEIGHT		
	12760	28680/	71440		
	E OUT	महार पुरुष अस्ति । अस्य नावर् । व	· TIME IN		
	23 AML	1 27	09:11 AM		
# (VEHICLE DESCRIPTION	VEHICLE DI		
	RedAustinTruck Erie&Home				
1		NOTES			

Bary Colema	an Penasta 03-16
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DRIVER'S NAME

TRUCKING COMPANY. DEC PART 364 HAULING PERMIT # CCSWMD CONTAMINATED PERI.

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Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here X

THESE MATERIALS CAME FROM THIS ADDRIVE ASE FILL IN THE ADDRIVE SON THE LINES BELOW!

PRINT Name



Cheming County Solid Waste Management District

1090 Late succi, box 583, Emiria, NY 45/1-058 Phone coto: 737-2980 + Fax toto: 757-2967

Lynn	Τ.	Ψi	e l	ك	Y

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Elmina City of Emina	(Erie	Street:
317 East Church Stre	et	
Attn: Ron Hawley (Er Elmira	ie St)	
Elmina	NY	14901

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5/16/03	TRUCKARR
TICKET NUMBER	"B" or BOX NUMBER
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Each hauler must fill in the following information and sign, or disposal privileges may be revoked. I certify that the Material was all generated in Chemung County and that it does not contain hazardous materials.

Sign Here 🗙	Ital some	THESE MATERIALS CAME FROM THIS ADDITION (PLEASE FILL IN THE ADDRESS ON THE LINES BELOW)
PRINT Name	GARY ColeMAN	



Chemong County Sona Waste Management District 169. Lake Stren, Box 585 (4), Eq. NY 14/02-0588 Phote (6)(7) (27/298) + 1 ax 6/37 (7/7/2967)



490

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		HICLE DESCRIPTION			# OF F	RECYCLED BALE	SOUTBOUND	TRUCKING CO'S RE	LEASE NUMBER
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					-	, , ;, ,,v ,	TRUCKING	G COMPANY :	··
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Cheming County Solid Waste Management District 1.39. Lake Street, box 583. 2 mala, NY (4932-0.88 | Those (607) 737-2931 | Fax (607) 737-2947

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APPENDIX F

NYSDEC TAGM 4046

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New York State Department of Environmental Conservation (REVISED)

MEMORANDUM

TO: FROM: SUBJECT: Regional Hazardous Waste Remediation Engineers, Bureau Directors and Section Chiefs Michael J. O'Toole, Jr., Director, Division of Hazardous Waste Remediation Revised TAGM - Determination of Soil Cleanup Objectives and Cleanup Levels

Muchill !

DATE:

JAN 24 1994

Attached is the revised Division Technical and Administrative Guidance Memorandum (TAGM) on Determination of Soil Cleanup Objectives and Cleanup Levels in its final form. The changes are to the Tables of Appendix A. They are minor in nature and do not change the content of the TAGM. The changes include:

- 1. Alphabetizing contaminants in Table 1 through Table 4.
- 2. The addition of a few contaminants to Table 1 and Table 2.
- 3. Table 4 has been revised to indicate that background levels for lead vary widely and provide a range for undeveloped and developed areas. It also has been revised to indicate that site-specific form(s) of cyanide should be considered when establishing soil cleanup objectives for cyanide.

If you have any questions, please contact Ajay Shroff of my staff at (518)485-8792.

Attachment

cc:

T. Jorling

J. Lacey

M. Gerstman

A. DeBarbieri

E. Sullivan

T. Donovan

C. Sullivan

J. Eckl

R. Davies

R. Dana

C. Goddard

C. Costopoulos

P. Counterman

J. Davis "

J. Kelleher

J. Colguhoun

D. Persson

J. Printup

M. Bermingham

D. Johnson

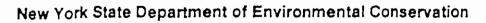
M. Kadlecek

Regional Directors

Regional Engineers

Regional Solid and Haz. Waste Engrs.

Regional Citizen Participation Spec.





TO: FROM: SUBJECT:

DATE:

MEMORANDUM

Regional Haz. Waste Remediation Engineers, Bureau Dirs. & Section Chiefs Michael J. O'Toole, Jr., Director, Div. of Hazardous Waste Remediation DIVISION TECHNICAL AND ADMINISTRATIVE GUIDANCE MEMORANDUM: DETERMINATION OF SOIL CLEANUP OBJECTIVES AND CLEANUP LEVELS

JAN 24 1994

The cleanup goal of the Department is to restore inactive hazardous waste sites to predisposal conditions, to the extent feasible and authorized by law. However, it is recognized that restoration to predisposal conditions will not always be feasible.

Michal files

1. INTRODUCTION:

This TAGM provides a basis and procedure to determine soil cleanup levels at individual Federal Superfund, State Superfund, 1986 EQBA Title 3 and Responsible Party (RP) sites, when the Director of the DHWR determines that cleanup of a site to predisposal conditions is not possible or feasible.

The process starts with development of soil cleanup objectives by the Technology Section for the contaminants identified by the Project Managers. The Technology Section uses the procedure described in this TAGM to develop soil cleanup objectives. Attainment of these generic soil cleanup objectives will, at a minimum, eliminate all significant threats to human health and/or the environment posed by the inactive hazardous waste site. Project Managers should use these cleanup objectives in selecting alternatives in the Feasibility Study (FS). Based on the proposed selected remedial technology (outcome of FS), final site specific soil cleanup levels are established in the Record of Decision (ROD) for these sites.

It should be noted that even after soil cleanup levels are established in the ROD, these levels may prove to be unattainable when remedial construction begins. In that event, alternative remedial actions or institutional controls may be necessary to protect the environment.

2. BASIS FOR SOIL CLEANUP OBJECTIVES:

The following alternative bases are used to determine soil cleanup objectives:

(a) Human health based levels that correspond to excess lifetime

cancer risks of one in a million for Class A¹ and B² carcinogens, or one in 100,000 for Class C³ carcinogens. These levels are contained in USEPA's Health Effects Assessment Summary Tables (HEASTs) which are compiled and updated quarterly by the NYSDEC's Division of Hazardous Substances Regulation;

- (b) Human health based levels for systemic toxicants, calculated from Reference Doses (RfDs). RfDs are an estimate of the daily exposure an individual (including sensitive individuals) can experience without appreciable risk of health effects during a lifetime. An average scenario of exposure in which children ages one to six (who exhibit the greatest tendency to ingest soil) is assumed. An intake rate of 0.2 gram/day for a five-year exposure period for a 16-kg child is assumed. These levels are contained in USEPA's Health Effects Assessment Summary Tables (HEASTs) which are compiled and updated quarterly by the NYSDEC's Division of Hazardous Substances Regulation;
- (c) Environmental concentrations which are protective of groundwater/drinking water quality; based on promulgated or proposed New York State Standards;
- (d) Background values for contaminants; and
- (e) Detection limits.

A recommendation on the appropriate cleanup objective is based on the criterion that produces the most stringent cleanup level using criteria a, b, and c for organic chemicals, and criteria a, b, and d for heavy metals. If criteria a and/or b are below criterion d for a contaminant, its background value should be used as the cleanup objective. However, cleanup objectives developed using this approach must be, at a minimum, above the method detection limit (MDL) and it is preferable to have the soil cleanup objectives above the Contract Required Quantitation Limit (CRQL) as defined by NYSDEC. If the cleanup objective of a compound is "non-detectable", it should mean that it is not detected at the MDL. Efforts should be made to obtain the best MDL detection possible when selecting a laboratory and analytical protocol.

The water/soil partitioning theory is used to determine soil cleanup objectives which would be protective of groundwater/drinking water quality for its best use. This theory is conservative in nature and assumes that contaminated soil and groundwater are in direct contact. This theory is based upon the ability of organic matter in soil to adsorb organic chemicals. The approach predicts the maximum amount of contamination that may remain in soil so that leachate from the contaminated soil will not violate groundwater and/or drinking water

standards.

- (1) Class A are proved human carcinogens
- (2) Class B are probable human carcinogens
- (3) Class C are possible human carcinogens

This approach is not used for heavy metals, which do not partition appreciably into soil organic matter. For heavy metals, eastern USA or New York State soil background values may be used as soil cleanup objectives. A list of values that have been tabulated is attached. Soil background data near the site, if available, is preferable and should be used as the cleanup objective for such metals. Background samples should be free from the influences of this site and any other source of contaminants. Ideal background samples may be obtained from uncontaminated upgradient and upwind locations.

3. <u>DETERMINATION OF SOIL CLEANUP GOALS FOR ORGANICS IN SOIL</u> FOR PROTECTION OF WATER QUALITY

Protection of water quality from contaminated soil is a two-part problem. The first is predicting the amount of contamination that will leave the contaminated media as leachate. The second part of the problem is to determine how much of that contamination will actually contribute to a violation of groundwater standards upon reaching and dispersing into groundwater. Some of the contamination which initially leaches out of soil will be absorbed by other soil before it reaches groundwater. Some portion will be reduced through natural attenuation or other mechanism.

PART A: PARTITION THEORY MODEL

There are many test and theoretical models which are used to predict leachate quality given a known value of soil contamination. The Water-Soil Equilibrium Partition Theory is used as a basis to determine soil standard or contamination limit for protection of water quality by most of the models currently in use. It is based on the ability of organic carbon in soil to adsorb contamination. Using a water quality value which may not be exceeded in leachate and the partition coefficient method, the equilibrium concentration (Cs) will be expressed in the same units as the water standards. The following expression is used:

Allowable Soil Concentration $Cs = f \times K\infty \times Cw \dots$ (1)

Where: f = fraction of organic carbon of the natural soil medium.

Koc = partition coefficient between water and soil media. Koc can be estimated by the following equation:

log Koc = 3.64 - 0.55 log S

S = water solubility in ppm Cw = appropriate water quality value from TOGS 1.1.1

Most Koc and S values are listed in the Exhibit A-1 of the USEPA Superfund Public Health Evaluation Manual (EPA/540/1-86/060). The Koc values listed in this manual should be used for the purpose. If the Koc value for a contaminant is not listed, it should be estimated using the above mentioned equation.

PART B: PROCEDURE FOR DETERMINATION OF SOIL CLEANUP OBJECTIVES

When the contaminated soil is in the unsaturated zone above the water table, many mechanisms are at work that prevent all of the contamination that would leave the contaminated soil from impacting groundwater. These mechanisms occur during transport and may work simultaneously. They include the following: (1) volatility, (2) sorption and desorption, (3) leaching and diffusion, (4) transformation and degradation, and (5) change in concentration of contaminants after reaching and/or mixing with the groundwater surface. To account for these mechanisms, a correction factor of 100 is used to establish soil cleanup objectives. This value of 100 for the correction is consistent with the logic used by EPA in its Dilution Attenuation Factor (DAF) approach for EP Toxicity and TCLP. (Federal Register/Vol. 55, No. 61, March 29, 1990/Pages 11826-27). Soil cleanup objectives are calculated by multiplying the allowable soil concentration by the correction factor. If the contaminated soil is very close (<3' - 5') to the groundwater table or in the groundwater, extreme caution should be exercised when using the correction factor of 100 (one hundred) as this may not give conservative cleanup objectives. For such situations the Technology Section should be consulted for site-specific cleanup objectives.

Soil cleanup objectives are limited to the following maximum values. These values are consistent with the approach promulgated by the States of Washington and Michigan.

- 1) Total VOCs ≤ 10 ppm.
- 2) Total Semi VOCs ≤ 500 ppm.
- 3) Individual Semi VOCs ≤ 50 ppm.
- 4) Total Pesticides ≤ 10 ppm.

One concern regarding the semi-volatile compounds is that some of these compounds are so insoluble that their Cs values are fairly large. Experience (Draft TOGS on Petroleum

Contaminated Soil Guidance) has shown that soil containing some of these insoluble substances at high concentrations can exhibit a distinct odor even though the substance will not leach from the soil. Hence any time a soil exhibits a discernible odor nuisance, it shall not be considered clean even if it has met the numerical criteria.

DETERMINATION OF FINAL CLEANUP LEVELS:

Recommended soil cleanup objectives should be utilized in the development of final cleanup levels through the Feasibility Study (FS) process. During the FS, various alternative remedial actions developed during the Remedial Investigation (RI) are initially screened and narrowed down to the list of potential alternative remedial actions that will be evaluated in detail. These alternative remedial actions are evaluated using the criteria discussed in TAGM 4030, Selection of Remedial Actions at Inactive Hazardous Waste Sites, revised May 15, 1990, and the preferred remedial action will be selected. After the detailed evaluation of the preferred remedial action, the final cleanup levels which can be actually achieved using the preferred remedial action must be established. Remedy selection, which will include final cleanup levels, is the subject of TAGM 4030.

Recommended soil cleanup objectives that have been calculated by the Technology Section are presented in Appendix A. These objectives are based on a soil organic carbon content of 1% (0.01) and should be adjusted for the actual organic carbon content if it is known. For determining soil organic carbon content, use attached USEPA method (Appendix B). Please contact the Technology Section, Bureau of Program Management for soil cleanup objectives not included in Appendix A.

Attachments

T. Jorling cc:

J. Lacey

M. Gerstman

A. DeBarbieri

E. Sullivan

T. Donovan

C. Sullivan

J. Eckl

R. Davies

R. Dana -

C. Goddard

E. McCandless

P. Counterman

J. Davis

J. Kelleher

J. Colquhoun

D. Persson

A. Carlson

M. Birmingham

D. Johnson

B. Hogan

Regional Directors

Regional Engineers

Regional Solid and Haz. Waste Engrs.

Regional Citizen Participation Spec.

APPENDIX A
TABLE 1
Recommended soil cleanup objectives (mg/kg or ppm)
Voiatile Organic Contaminants

		•		b **	USEPA Healt	h Based	-	
Contaminant	Partition	Groundwater	Allowable	Soil Cleanup	(ppm)	•		***
	coefficient	Standards/	Soil conc.	objectives to				Rec.soil
	Koc	Criteria Cw	ppm.	Protect GW,	Carcinogens	Systemic	CRQL	Clnup Obje
		ug/Lorppb.	C#	Quality (ppm)	<u>, </u>	Toxicants	(ppb)	(pps)
Acetone	2.2	50	0.0011	0.11	N/A	8,000	10	. 0.2
Benzene	83	0.7	0.0006	0.06	24	N/A	5	0.06
Senzoic Acid	54*	50 .	0.027	2.7 .	. N/A	300,000	5	2.7
2-Butanone MEK	4.5*	50 .	0.003	0.3	N/A	4,000	10	0.3
Carbon Disulfide	54*	50 -	0.027	2.7	N/A	8,000	5	2.7
Carbon Tetrachloride	110*	5	0.006	0,6	5.4	60	5	0.6
Chlorobenzene	330	5	0.017	1.7	N/A	2,000	5	1.7
Chloroethane	37*	50	0.019	1.9	N/A	N/A	10	1.9
:hloroform	31	7	0.003	0.30	114	800	5	0.3
) ibromoch Loromethane	N/A	50	N/A	N/A	N/A	N/A	5	H/A
1,2-Dichtorobenzene	1,700	4.7	0.079	7.9	R/A	N/A	330	7.9
1,3-Dichlorobenzene	310 *	5	0.0155	1.55	N/A	N/A	330	1.6
4-Dichlorobenzene	1,700	5	0.065	8.5	N/A	N/A	330	8.5
, 1-Dichloroethane	30	5	0.002	0.2	N/A	N/A	5	0.2
1,2-Dichloroethane	14	5	0.001	0.1	7.7	H/A	5	0.1
1,1-Dichloroethene	65	5	8.004	0.4	12	700	5	0.4
<pre>2-Dichloroethene(trans)</pre>	· 59	5	0.003	0.3	N/A	2,000	5	0.3
5-dichtoropropene	51	. 5	0.003	0.3	N/A	N/A	5	0.3
thylbenzene	1,100	5	0.055	5.5	N/A	8,000	5	5.5
13 Freon(1,1,2 Trichloro-	·				•••	-,	•	
1,2,2 Trifluoroethane)	1,230*	5	0.060	6.0	N/A	200,000	5	6.0
ethyl ene chloride	21	5	0.001	0.1	93	5,000	5	0.1
-Hethyl-2-Pentanone	19*	50	0.01	1.0	N/À	H/A	10	1.0
etrachloroethene	277	5	0.014	1.4	14	800	5	1.4
,1,1-Trichloroethane	152	5	0.0076	0.76	N/A	7,000	5	0.8
,1,2,2-Tetrachloroethane	118	5	0.006	0.6	35	N/A	5	0.6
,2,3-trichloropropene	68	5	0.0034	0.34	N/A	80	5	0.4
,2,4-Trichlorobenzene	670 *	5	0.034	3.4	N/A	X/A	330	3.4
luene	300	5	0.015	1.5	N/A	20,000	5	1.5
fichloroethene	126	5	0.007	0.70	64	N/A	5	0.7
inyl chloride	57	2	0.0012	0.12	N/A	N/A	10	0.2
lenes	240	5	0.012	1.2	N/A	200,000		1.2

N/A is not available

Partition coefficient is calculated by using the following equation: log Koc = -0.55 log S + 3.64, where S is solubility in water in ppm.

All other Koc values are experimental values.

Correction Factor (CF) of 100 is used as per TAGM #4046

* As per TAGM #4046, Total VOCs < 10 ppm.

:

a. Allowable Soil Concentration Cs = f x Cw x Koc

b. Soil cleanup objective = Cs x Correction Factor (CF)

te: Soil cleanup objectives are developed for soil organic carbon content (f) of 1%, and should be adjusted for the actual soil organic carbon content if it is known.

APPENDIX A (cont.)

TABLE Z

Recommended Soil Cleanup Objectives (mg/kg or ppm).

Somi-Volatile Organic Contaminants

			2	b **	USEPA Healt	h Based		
Contaminant	Partition coefficient Koc	Groundwater Standards/ Criteria CM ug/i or ppb.	Alloumble Soil conc. .ppm. Cs	Soil Cleanup objectives to Protect GW Quality (ppm)	(pp. Carcinogens			
	4,600	20	0.9	90.0	N/A	5,000	330	50.0*
(cenaphthene	2,056*	20	0.41	41.0	N/A	N/A	330	41.0
icenaphthylene	13.8	5	0.001	0.1	123	N/A °↓	330	0.1
miline		50	7.00	700.0	N/A	20,000	330	50.0*
Inthracene	14,000	0.002	0.03	3.0	0.224	N/A	330	0.224 or
Benzo(a)anthracene	1,380,000	0.002(ND)	0.110	11.0	0.0609	N/A	330	0.061 or
lenzo(a)pyrene	5,500,000	0.002	0.011	1.1	R/A	N/A	330	1.1
Benzo(b)fluoranthene	550,000		8.0	800	N/A	N/A	330	50.01
senzo(g,h,i)perylene	1,600,000	5 0.002 :		1.1	N/A	N/A	330	1.1
Benzo(k)fluoranthene	550,000	0.00L	0.011	435.0	50	2,000	330	50.0
ois(2-ethylhexyl)phthalat	te 8,706*	50	4.35		N/A	20,000	330	50.0
utylbenzylphthlate	2,430	50	1.215	122.0	H/A	N/A	330	0.4
hrysene	200,000	0.002	0.004	0.4	200	300	330	0.220 or
-Chloromiline	43 ***		0.0022	0.22		N/A	330	0.240 or
-Chloro-3-methylphenol	47	5	0.0024	0.24	N/A	400	330	0.8
-chitorophenoi	15*	50	0.008	0.8	N/A		330	6.2
ibenzofuran	1,230*	5	0.062	6.2	N/A	N/A	330	0.014 or
(benzo(a,h)anthracene	33,000,000	50	1,650	165,000	0.0143	N/A		K/A
3'-Dichiorobenzidine	N/A	N/A	N/A	N/A	X/A	N/A	N/A	0.4
,4-Dichlorophenol	380	1	0.004	0.4	N/A	200	330	
4-Dinitrophenol	38	5	0.002	0.2	N/A	200	1,600	0.200 or
,6 Dinitrotoluene	196*	5	0.01	1.0	1.03	N/A	330	1.0
	142	50	0.071	7.1	N/A	60,000	330	7.1
iethylphthlate	40	50	0.020	2.0 . '	¥/A	80,000	330	2.0
imethylphthlate	162*	50	0.081	8.1	N/A	8,000	330	8.1
i-n-butyl phthalate		50	1.2	120.0	N/A	2,000	330	50.0
i-n-octyl phthlate	2,346*	50	19	1900.0	N/A	3,000	330	50.0
luoranthene	38,000		3.5	350.0	N/A	3,000	330	50.0
Luorene	7,300	50	0.014	1.4	0.41	60	330	0.4
exachlorobenzene	3,900	0.35		3.2	H/A	N/A	330	3.2
ndeno(1,2,3-cd)pyrene	1,600,000	0.002	0.032	4.40	1,707	20,000	330	4.41
sophoron e	88.31*	50	0.044	36.4	H/A	N/A	330	36.4
-methylnaphthalene	727*	50	0.364		N/A	N/A	330	0.100 or
-Hethylphenol	15	5	0.001	0.1	N/A	4,000	330	0.9
-Hethylphenol	17	50	0.009	0.9		300	330	13.0
aphthalene	1,300	10	0.130	13.0	N/A	40	330	0.200 or
itrobenzene	36	5	0.002	0.2	N/A	N/A	1,600	0.430 or
-Nitroaniline	86	5	0.0043	0.43	N/A		330	0.330 or
-Witrophenol ·	65	5	. 0.0033	0.33	N/A	X/A	1,600	0.100 or
-Nitrophenol	21	5	0.001	0.1	N/A	N/A	-	0.500 or
-Mitroaniline	93	5	0.005	0.5	N/A	N/A	1,600	1.0 or M
entachlorophenol	1,022	1	0.01	1.0	N/A	2,000	1,600	50.0
enanthrene	4,365*	50	2.20	220.0	H/A	N/A	330	0.03 or 1
henol	27	1	0.0003	0.03	H/A	50,000	330	
yrene	13,295*	50	6.65	665.0	N/A	2,000	330	50.0
,4,5-Trichlorophenal	6 89*		0.001	0.1	N/A	8,000	330	0.1

APPENDIX A (cont.)
TABLE 3
Recommended soil cleanup objectives (mg/kg or.ppm)
Organic Pesticides / Herbicides and PCBs //.

		•	a .	ь ' **	USEPA Healt	th Based		
Contaminant	Partition	Groundwater	Allowable	Soil Cleanup	(ppm)	,		
	coefficient	Standards/ Criteria Cw ug/l or ppb.	Soil conc. ppm. Cs	objectives to Protect GW Quality (ppm)	Carcinogens	Systemic Toxicants	CROL	*** Rec.soil Cinup Obje
	•					•	(ppb)	
Aldrin	96,000	MD(<0.01)	0.005	0.5	0.041	2	8	0.041
alpha - BHC	3,800	ND (<0.05)	0.002	0.2	0.111	A/K	8	0.11
beta - BHC	3,800	ND(<0.05)	0.002	0.2	3.89	N/A	8	0.2
delta - BHC	6,600	ND(<0.05)	0.003	0.3	N/A	X/A	8	0.3
Chlordane	21,305*	0.1	0.02	2.0	0.54	50	80	0.54
2,4-D	104*	4.4	0.005	0.5	N/A	800	800	0.5
4,4'-DDD	770,000*	ND(<0.01)	0.077	7.7	2.9	X/A	16	2.9
4,4'-DDE .	440,000*	NO(<0.01)	0.0440	4.4	2.1	N/A	16	2.1
4,44-DDT	243,000*	ND(<0.01)	0.025	2.5	2.1	40	16	2.1
ibenzo-P-dioxins(PCDD)	•	•		•				
2,3,7,8 TCDD	1709800	0.000035	0.0006	0.06	N/A	N/A	N/A	N/A
Dieldrin	10,700*	MD(<0.01)	0.0010	0.1	0.044	4	16	0.044
indosul fan I	8,168*	0.1	0.009	0.9	N/A	N/A	16	0.9
indosulfan II	8,031*	0.1	0.009	0.9	R/A	N/A	16	0.9
ndosulfan Sulfate	10,038*	0.1	0.01	1.0	N/A	N/A	16	1.0
ndrin .	9,157*	MD(<0.01)	0.001	0.1	N/A	20	8	0.10
hdrin keytone	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
seema - BHC (Lindane)	1,080	HD(<0.05)	0.0006	0.06	5.4	20	8	0.06
amma - chlordene	140,000	0.1	0.14	14.0	0.54	5	80	0.54
eptachlor ·	12,000	ND(<0.01)	0.0010	0.1	0.16	40	8	0.10
eptachlor epoxide	220	ND(<0.01)	0.0002	0.02	0.077	0.8	8	0.02
ethoxychlor	25,637	35.0	9.0	900 .	N/A	400	80	***
itotane	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
irathion	760	1.5	0.012	1.2	N/A	500	8	1.2
CBs	17,510*	0.1	0.1	10.0	1.0	H/A		1.0(Surfac 10(sub-sur
lychlorinated dibenzo-								10(300-50)
furans(PCDF)	N/A	N/A	N/A	N/A	N/A	H/A	N/A	#/A
lvex	2,600	0.26	0.007	0.7	H/A	600	330	0.7
4,5-T	53	35	0.019	1.9	N/A	200	330	1.9

^{8.} Allowable Soil Concentration Cs = f x Cw x Koc

b. Soil cleanup objective = Cs x Correction Factor (CF)

N/A is not available

Partition coefficient is calculated by using the following equation: log Koc = -0.55 log S + 3.64, where S is solubility in water in ppm.

All other Koc values are experimental values.

^{**} Correction Factor (CF) of 100 is used as per TAGM #4046 *** As per TAGM #4046, Total Pesticides < 10 ppm.

PCBs as per PCB guidance document), and should be adjusted for the actual soil organic Carbon content if it is known.

a. Allowable Soil Concentration Cs = f x Cw x Koc .

b. Soil cleanup objective = Cs x Correction Factor (CF)

N/A is not available MDL is Method Detection Limit

Partition coefficient is calculated by using the following equation:

log Koc = -0.55 log S + 3.64, where S is salubility in water in ppm. Other Koc values are experimental values.

Correction Factor (CF) of 100 is used as per TAGN #4046

*** As per TAGN #4046, Total VOCs < 10 ppm., Total Semi-VOCs < 500 ppm. and Individual Semi-VOCs < 50 ppm.

** Koc is derived from the correlation Koc = 0.63 Kow (Determining Soil Response Action Levels.... EPA/540/2-89/057). Kow is obtained from the USEPA computer database 'MAIN'.

Note: Soil cleanup objectives are developed for soil organic carbon content (f) of 1%, and should be adjusted for the actual soil organic carbon content if it is known.

APP[HO]X A . 1ABLE 4

Recommended Soil Cleanup Objectives (mg/kg or pom) for Heavy Metals

Target Anolyte List (TAL) Me

	Protect		•	****
Contaminants	Water	Eastern USA	CROL	Rec.sail
•	Oustity	Beckground	mg/kg	Circo Objet.
	ppm	ppn	or poin	(ppm)
			 	
Aluminum	X/X	. 33,000	2.0	SB
Antimony	A/K	N/Y	0.6	\$8
Arsenic	X/X	3-12 **-	0.1	7.5 or \$8
Barium	X/X	15-600	2.0	300 or S8
Beryllium -	×/A	0-1.75	0.05	0.16(HEASI) or S8
Cachiun	H/A	0.1-1	0.05	1 or S8
Cateion	N/K	130 - 35,000 **	50.0	82
Chronium	N/A	.1'.5-40 **	0.1	10 or SB
Cobalit	¥/A	2.5-60 **	0.5	30 or \$8
Copper	N/A	1-50	0.25	25 or SB
Cyanide	¥/A	N/A	0.1	•••
lron	X/A	2,000 - 550,000	1.0	2,000 or SB
Lead	N/A	••••	0.03-	SB
Kagnes ium	N/A	100 - 5,000	50.0	รตั
Kanganese	.X/X	50 - 5,000	0.15	88
תרכערץ .	N/A	0.001-0.2	0.802	0.1 ~
lickel	X/X	0.5-25	0.4	13 or sa
otassium	R/A	8,500 - 43,000 **	50.0	\$-8
elenium	N/A	0.1-3.9	0.05	2 or \$8
ilyer	N/A	N/A	0.1	S 8
odium	X/A	6,000 - 8,000	. 50.0	SB
hallium	X/A	N/A	0.1	58
anadium	X/A	1-300-	0.5	150 or 58
inc	X/A	9-50	0.2	20 or \$8

Note: Some forms of metal salts such as Aluminum Phosphide, Calcium Cyanide, Potassium Cyanide,
Copper cyanide, Silver cyanide, Sodium cyanide. Zinc phosphide, Thallium salts, Vanadium pentoxide,
and Chromium (VI) compounds are more toxic in nature. Please refer to the USEPA HEASTs database
to find cleanup objectives if such metal salts are present in soil.

SB is site background N/A is not available

- * CRDL is contract required detection limit which is approx. 10 times the CRDL for water.
- ** New York State background
- *** Some forms of Cyanide are complex and very stable while other forms are pH dependent and hence are very unstable. Site-specific form(s) of Cyanide should be taken into consideration when
 - establishing soil cleanup objective.
- **** Background levels for lead vary widely. Average levels in undeveloped, rural areas may range from 4-61 ppm. Average background levels in metropolitan or suburban areas or near highways are much higher and typically range from 200-500 ppm.
- as reported in a 1984 survey of reference material by E. Carol McGovern, NYSDEC.

Contaminant	CAS	Partition	Recommended	Groundwater	Allowable Soil	Soil Cleanup	USEPA Health		Detection	Rec.soil
	Registry	coefficient	EPA Method	Standards/	Concentration	objectives to	(HEAST)	(ppn)	Limit	Cleanup
	Number	Koc		Criteria Cw	Cs¹	Protect GW	Carcinogens	Systemic	Solid	Objective
				ug/l or ppb.	(ppm)	Quality (ppm)	_	Toxicants	(ppb)	(ppm)
Benzene	71-43-2	83	8021/8260	0.7	0.0006	0.06	24	N/A	2	0.06 or MDL
Ethylbenzene	100-41-4	1,100	8021/8260	5	0.055	5.5	N/A	8,000	2	5.5
Toluene	108-88-3	300	8021/8260	5	0.015	1.5	N/A	20,000	2	1.5
Mixed Xylenes	N/A	240	8021/8260	5	0.012	1.2	N/A	200,000	2	1,2
Lsopropylbenzene	98-82-8	454	8021/8260	5	0.023	2.3	N/A	3,100	1	2.3
n-Propylbenzene	103-65-1	741	8021/8260	5	0.037	3.7	NA	N/A	i	3.7
p-Isopropy toluene	99-87-6	2,114	8021/8260	5	0.11	11.0	N/A	N/A	1	10.0*
1,2,4 - Trimethylbenzene	95-63-6	2,590	8021/8260	5	0.13	13.0	N/A	N/A	1	10.0*
1,3,5 - Trimethythenzene	108-67-8	661	8021/8260	5	0.033	3.3	N/A	N/A	1	3.3
n-Butyl-Benzene	104-51-8	2,455	8021/8260	5	0.12	12.0	N/A	N/A	1	10.0*
sec-Butyl-Benzene	135-98-8	2,200	8021/8260	5	0.11	11.0	N/A	N/A	1	10.0*
Tert-Butyl-Benzene	98-06-6	2,200	8021/8260	5	0.11	11.0	N/A	N/A	į.	10.0*
Naphthalene	91-20-3	1,300	8021/8260/8270	10	0.13	13.0	N/A	300	1(330)	13.0
Anthracene	120-12-7	14,000	8270	50	7.00	700.0	N/A	20,000	330	50.0**
Acenaphthene	83-32-9	4,600	8270	20	0.92	92.0	N/A	5,000	330	50.0**
Acenaphthy lene	208-96-8	2,056	8270	50	1.03	103.0	N/A	N/A	330	50.0**
Benz(a)anthracene	56-55-3	1,380,000	8270	0.002	0.028	2.8	0.224	N/A	330	0.224 or MDL
Benzo(b)fluoranthene	205-99-2	550,000	8270	0.002	0.011	1.1	0.220	N/A	330	0.220 or MDL
Benzo(k)fluoranthene	207-8-9	550,000	8270	0,002	0.011	1.1	0.220	N/A	330	0.220 or MDL
Benzo(g,h,i)perylene	191-24-2	1,600,000	8270	5	80.00	8,000.0	N/A	N/A	330	50.0**
Benzo(a)pyrene	50-32-8	5,500,000	8270	0.002	0.11	11.0	0.061	N/A	330	0.061 or MDL
Chrysene	218-01-9	200,000	8270	0.002	0,004	0.40	N/A	N/A	330	0.4
Dibenzo(a,h)anthracene	53-70-3	3,300,000	8270	50	1,650.00	165,000.0	0.0143	N/A	330	0.0143 or MDL
Fluoranthene	206-14-0	38,000	8270	50	19.00	1,900.0	N/A	3,000	330	50.0**
Fluorene	86-73-7	7,300	8270	50	3.65	365.0	N/A	3,000	330	50.0**
Indeno(1,2,3-cd)pyrene	193-39-5	1,600,000	8270	0.002	0.032	3.2	N/A	N/A	330	3,2
Phenanthrene	85-01-5	4,365	8270	50	2.18	218.0	N/A	N/A	330	50.0**
Pyrene	129-00-0	13,295	8270	50	6.65	665.0	N/A	2,000	330	50.0**
N/A- Not Applicable	*As per TAGM 40	46 individual and	the sum of VOCs not lis	ted (Tentatively Ide	entified Compounds(TICs) <u>1</u> ≤ 10 ppm				
The state of the s	I									

^{**}As per TAGM 4046 individual non-curcinogenic semivolatiles < 50 ppm and total semivolatiles not listed (Tentatively Identified Compounds(T7Cs))< 500ppm

TAGM 4046

MDL - Method Detection Limit

Dilution Attenuation Factor - see

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^{1 -} Allowable concentration with no Note: Soil cleanup objectives are developed for soil organic carbon content (/) of 1%, and should be adjusted for the actual soil organic carbon if it is known.

Contaminant	CAS	Partition	Recommeded	Groundwater	Allowable Soil	Soil Cleanup	USEPA He	alth Based	Detection	Rec soil
	Registry	coefficient	EPA	Standards/	Concentration	objectives to	(HEAST)]	Limit	Cleanup
	Number	Koc	Method	Criteria C _n	Cs ^t	Protect GW			Solid	Objective
				ug/Lorppb	(ppm)	Quality (ppm)*	Carcinogens	Systemic	(քթե)	(ppm)
	<u> </u>						(bbtu)	Toxicants		
			l . <u>_</u>					(ppn)		
Benzene	71-43-2	83	8021/8260	0.7	0.0006	0.06	24	N/A	2	0.06 or MDL
Ethylbenzene	100-41-4	1,100	8021/8260	5	0.055	5.5	N/A	8,000	2	5.5
Тошеле	108-88-3	300	8021/8260	5	0.015	1,5	N/A	20,000	2	1.5
Mixed Xylenes	N/A	240	8021/8260	5	0.012	1.2	N/A	200,000	2	1.2
Isopropylbenzene	98-82-8	454	8021/8260	5	0.023	2.3	N/A	3,100]	2.3
n-Propylbenzene	103-65-1	741	8021/8260	5	0.037	3.7	N/A	N/A	1	3.7
p-Isopropyltoluene	99-87-6	2,114	8021/8260	5	0.11	11.0	N/A	N/A	1	10.0*
I,2,4 - Trimethylbenzene	95-63-6	2,590	8021/8260	5	0.13	13.0	N/A	N/A	1	10.0*
1,3,5 - Trimethylbenzene	108-67-8	661	8021/8260	5	0.033	3.3	N/A	N/A	1	3.3
n-Buryl-Benzene	104-51-8	2,455	8021/8260	5	0.12	12.0	N/A	N/A	3	10.0*
sec-Butyl-Benzene	135-98-8	2,200	8021/8260	5	0.11	11.0	N/A	N/A	1	10.0*
Tert-Butyl-Benzene	98-06-6	2,200	8021/8260	5	0.11	11.0	N/A	N/A	1	10.0*
Naphthalene	91-20-3	1,300	8021/8260	10	0.13	13.0	N/A	300	i	13.0
Methyl-Tert-Butyl-Ether (MTBE)**	1634-04-4	12	8021/8260**	10	0.0012	0.12	N/A	N/A	1	0,12
N/A Not montionable	BAL TACINA 10	مخد مسم احتاظ عاد	aum of VOCs and listed CT		d Commended TIC	41\< 10 nom				

N/A - Not applicable

MDL - Method Detection Limit

Attenuation Factor - see TAGM 4046

^{*}As per TAGM 4046 individual and the sum of VOCs not listed (Tentatively Identified Compounds(TICs)) 10 ppm

^{1.} Allowable concentration with no Dilution * Methyl t-buyt other (MTBE) is not a target compound of Methods 3021 and \$260, but MTBE may be determined using these methods with appropriate quality assurance and quality control measures Note: Soil cleanup objectives are developed for soil organic content (f) of 1 %, and should be adjusted for the actual soil organic content if it is known

Appendix A Table 1 Recommended Soil Cleanup objectives for Volatile Organic Compounds

Volatile Organic Compounds 1998

Contaminant	CAS	Partition	Groundweter	Governdwater	Soil Cleanup	USEPA Hea	th Based	Rec.soil	Detection	Norations
	Registry	coeffici c at	Standards/	Standards /	objectives to	(HEAST)]	Cleanup -	Limit	į
	Number Koc	Criteria ug/I or ppb	Criteria Designation	Protect GW Quality (ppm)			Objective	1 }		
					Carcinogens (ppm)	Systemic Toxicants	(ppm)			
		1				Ì	(ppm)			
n-Butyl-Benzene	104-58-8	3523	5	P	17.62	N/A	N/A	18		
sec-Butyl-Brazene	135-98-8	4982	5	P	24.91	N/A	NIA	25		
Isopropylbenzene	98-82-8	94B	5	P	4.74	N/A	3100	5		
p-laopropyltoluene	99-87-6	2,114	5	P	10,57	N/A	N/A	11		
Methyl-Tert-Butyl-Ether (MTBE)	1634-04-4	12	10	G	0.12	N/A		D.12		B
N-Propylbenzene	103-65-1	2800	5	P	14.00	N/A	NA	14		
1,2,4-Trimethylbenzene	95-63-6	2590	5	P	12.95	N/A	NIA	13		
1,3,5 - Trimeflylbenzene	108-67-8	661	5	. P	3.31	N/A	NIA	3.3		

A- Cleanup objective reflects changes to groundwater standards in June 1998 version of TOGS 1,1.1

B - A groundwater standard is under review and has not been finalized yet 10 pph was used to reflect the guidance value published in the April 2000 amendment to TOGS 1.1.1

N/A - Not available

MDL - Method detection limit

APPENDIX G

RECORD OF DECISION



Division of Environmental Remediation

Environmental Restoration Record of Decision

Former American LaFrance Site Elmira (C), Chemung County Site Number B-00011-8

March 2002

New York State Department of Environmental Conservation
GEORGE E. PATAKI, Governor Erin M. Crotty, Commissioner

DECLARATION STATEMENT ENVIRONMENTAL RESTORATION RECORD OF DECISION

Former American LaFrance Environmental Restoration Site City of Elmira, Chemung County, New York Site No. B-00011-8

Statement of Purpose and Basis

The Record of Decision (ROD) presents the selected remedy for the Former American LaFrance environmental restoration site which was chosen in accordance with the New York State Environmental Conservation Law.

This decision is based on the Administrative Record of the New York State Department of Environmental Conservation (NYSDEC) for the Former American LaFrance environmental restoration site and upon public input to the Proposed Remedial Action Plan (PRAP) presented by the NYSDEC. A listing of the documents included as a part of the Administrative Record is included in Appendix B of the ROD.

Assessment of the Site

Actual or threatened release of hazardous substances and petroleum products from this site, if not addressed by implementing the remedy selected in this ROD, presents a current or potential threat to public health and the environment.

Description of Selected Remedy

Based on the results of the Site Investigation/Remedial Alternatives Report (SI/RAR) for the Former American LaFrance site and the criteria identified for evaluation of alternatives, the NYSDEC has selected removal of the underground storage tank, establishment of grass cover, development of a soil management plan, and deed restriction. The components of the remedy are as follows:

- removal of an underground storage tank (UST) containing 6000 gallons of non-hazardous # 6 fuel oil and approximately 500 cubic yards of associated contaminated soil in accordance with 6NYCRR Part 613 and TAGM 4046;
- establishment of grass cover over the exposed soil areas of the site to minimize exposure to surface soil;

- development of a long-term soil management plan (SMP) to address remaining contaminated soils excavated at the site during future redevelopment or excavation. The plan will include but not be limited to soil management, characterization, and disposal in accordance with applicable NYSDEC regulations. Additionally, the SMP will include placement of a minimum one foot thick soil cover in all areas of the site to be green space under the proposed redevelopment plan. A geotextile fabric or similar material will be installed between the soil cover and the existing surface soils to stabilize and serve as a demarcation between the cover and the contaminated soils below. Areas to be paved or where buildings are planned will not require the placement of the soil cover. The SMP must be submitted to and approved by the NYSDEC before any redevelopment or excavation occurs at the site; and
- implementation of a deed restriction to limit future site use to industrial or commercial use. The future commercial use of the site will exclude activities such as day care centers. Further, the deed restriction will require that site redevelopment or excavation shall proceed in compliance with the approved SMP and, that the future property owners shall annually certify to the NYSDEC that the remedy continues to be maintained in accordance with the ROD

New York State Department of Health Acceptance

The New York State Department of Health concurs with the remedy selected for this site as being protective of human health.

Declaration

The selected remedy is protective of human health and the environment, complies with State and Federal requirements that are legally applicable or relevant and appropriate to the remedial action to the extent practicable, and is cost effective.

Date

3/28/2002

Michael J. O'Toole, Jr., Directo

Division of Environmental Remediation

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Environmental Restoration RECORD OF DECISION

Former American LaFrance Site City of Elmira, Chemung County Site No. B-00011-8 March 2002

SECTION 1: SUMMARY OF THE RECORD OF DECISION

The New York State Department of Environmental Conservation (NYSDEC), in consultation with the New York State Department of Health (NYSDOH), has selected this remedy to address the threat to human health and/or the environment created by the presence of hazardous substances at the Former American LaFrance brownfield site.

The 1996 Clean Water/Clean Air Bond Act provides funding to municipalities for the investigation and cleanup of brownfields. Under the Environmental Restoration (Brownfields) Program, the State may provide grants to the City of Elmira to reimburse up to 75 percent of the eligible costs for site remediation activities. Once remediated the property can then be reused.

This 4.357-acre site is located at the western corner of Erie Street and Home Street in a New York State Economic Development Zone in the City of Elmira. The site is currently a vacant parcel owned by the City of Elmira. As more fully described in Sections 3 and 4 of this document, plating, painting, and machine shop operations as well as the presence of an underground storage tank have resulted in the disposal of a number of hazardous substances, including organic compounds, heavy metals and petroleum-based products at the site. These disposal activities have resulted in the following potential threats to the public health and the environment:

- a potential threat to human health associated with ingestion and/or inhalation of contaminated surface soil and dust; and
- a potential environmental threat associated with release of petroleum-based compounds from the underground storage tank to groundwater.

In order to eliminate or mitigate the potential threats to public health and /or the environment that the hazardous substances disposed at the Former American LaFrance brownfield site may have caused, the following remedy was selected to allow for proposed commercial/industrial use of the site:

- removal of an underground storage tank (UST) containing 6000 gallons of non-hazardous # 6 fuel oil and approximately 500 cubic yards of associated contaminated soil in accordance with 6NYCRR Part 613 and TAGM 4046;
- establishment of grass cover over the exposed soil areas of the site to minimize exposure to surface soil;
- development of a long-term soil management plan (SMP) to address remaining contaminated soils excavated at the site during future redevelopment or excavation. The plan will include but not be limited to soil management, characterization, and disposal in accordance with applicable NYSDEC regulations. Additionally, the SMP will include placement of a minimum one foot thick soil cover in all areas of the site to be green space under the proposed redevelopment plan. A geotextile fabric or similar material will be installed between the soil cover and the existing surface soils to stabilize and serve as a demarcation between the cover and the contaminated surface soils. Areas to be paved or where buildings are planned will not require the placement of the soil cover. The SMP must be submitted to and approved by the NYSDEC before any redevelopment or excavation occurs at the site; and
- implementation of a deed restriction to limit future site use to industrial or commercial use. The future commercial use of the site will exclude activities such as day care centers. Further, the deed restriction will require that site redevelopment or excavation shall proceed in compliance with the approved SMP and, that the future property owners shall annually certify to the NYSDEC that the remedy continues to be maintained in accordance with this ROD.

The selected remedy, discussed in detail in Section 8 of this document, is intended to attain the remediation goals selected for this site in Section 6 of this ROD in conformity with applicable standards, criteria, and guidance (SCGs).

SECTION 2: <u>SITE LOCATION AND DESCRIPTION</u>

The 4.357-acre site is located in a light industrial/commercial-residential setting in the City of Elmira, Chemung County. It is bounded on the west by the Consolidated Rail property, on the east by Erie Street, on the north by East LaFrance Street, and on the south by Home Street. Currently, the site is a vacant plot. The area is served by public water and sewer facilities. The nearest public water supply wells are located approximately 1.5 miles west of the site. The Chemung River is located approximately ¾ of a mile north of the site. The Former Chemung Foundry, a simultaneously investigated brownfield project (Site # B-00014-8), is located within ¼ mile of the site. Please refer to Figure 1 for a site location plan.

SECTION 3: SITE HISTORY

3.1: Operational/Disposal History

The site is the location of a former fire truck manufacturing facility (1903-1980). All phases of fire truck and fire extinguisher manufacturing took place on this site. There are no waste disposal records available. Fire trucks were undercoated at this facility which may have released petroleum compounds at the site. Also foundries, machine shops, paint shops, paint spray booths and plating operations may have released heavy metals and organic compounds at the site.

The site was acquired by the City of Elmira in the early 1980s through tax foreclosure proceedings. In 1983, an oil spill containing polychlorinated biphenyls (PCBs) occurred at the site due to illegal salvaging of transformers stationed on the roofs of site buildings.

3.2: Environmental Restoration History

The 1983 PCB spill at the site was immediately cleaned up by the City of Elmira under NYSDEC supervision. The cleanup met the levels established by existing regulations. Approximately 250 cubic yards of contaminated material were removed from the site for appropriate off-site disposal. In 1984, all the buildings on the property were demolished by the City of Elmira and the debris disposed of off-site. In December 1996, a Phase I Environmental Assessment report was prepared by the City of Elmira. The Phase I report identified two potential environmental concerns: 1) liquid tar-like material on the ground surface and 2) unknown potential environmental conditions as the result of former industrial site use.

In 1997, the project was accepted as an Environmental Restoration Project under Title 5 of the New York State 1996 Clean Water/Clean Air Bond Act, making it eligible for up to 75% State financial assistance.

SECTION 4: SITE CONTAMINATION

To determine the nature and extent of contamination by hazardous substances at this environmental restoration site, the City of Elmira has completed a Site Investigation/Remedial Alternatives Report (SI/RAR).

4.1: Summary of the Site Investigation

The purpose of the SI was to define the nature and extent of contamination resulting from previous activities at the site. The SI was conducted between September 1998 and February 2000. A report entitled Site Investigation Report for the Former American LaFrance Site dated December 2000 has been prepared which describes the field activities and findings of the SI in detail.

The SI included the following activities:

- collection of surface soil samples to determine the potential for human exposure to contaminants;
- geophysical (magnetometer) survey to determine the presence of underground tanks;
- excavation of test pits to verify the anomalies identified during the geophysical survey;
- soil gas sampling to determine if volatile organic compounds are present in soil; and
- installation of soil borings and monitoring wells for analyses of soils and groundwater as well as physical properties of soil and hydrogeologic conditions.

To determine which media (soil, groundwater, etc.) are contaminated at levels of concern, the SI analytical data were compared to environmental standards, criteria, and guidance (SCGs). Groundwater and drinking water SCGs identified for the Former American LaFrance site are based on NYSDEC Ambient Water Quality Standards and Guidance Values and Part 5 of the New York State Sanitary Code. For soils, NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 provides soil cleanup guidelines for the protection of groundwater, background conditions, and health-based exposure scenarios. In addition for soils, background concentration levels can be considered for certain categories of contaminants.

Based on the Site Investigation results in comparison to the SCGs and potential public health and environmental exposure routes, certain media and areas of the site require remediation. These are summarized below. More complete information can be found in the SI Report.

Chemical concentrations are reported in parts per million (ppm). For comparison purposes, where applicable, SCGs are provided for each medium.

4.1.1: Site Geology and Hydrogeology

The site overburden is comprised of gravelly fill and foundation remnants of previous buildings to a depth of approximately 5 feet. The subsurface soils are Howard gravelly silt loam consisting of deep, well-drained and somewhat excessively drained, medium-textured soils that developed in stratified glacial outwash deposits of sand and gravel.

The site is located over a major aquifer on a tributary of the Susquehanna River Basin on the south side of the City of Elmira. Groundwater occurs at a depth of approximately 10 feet below ground surface and flows in a northeasterly direction.

4.1.2: Nature of Contamination

As described in the SI report, soil and groundwater samples were collected at the site to characterize the nature and extent of contamination. Results of the SI indicate the site contamination is attributable to industrial activity. Test pits were excavated, based on the

anomalies identified during the geophysical survey. No buried tanks, other than the known buried tank containing non-hazardous # 6 fuel oil, were found. No evidence of hazardous waste disposal was found. Surface soils and subsurface soils at isolated locations are contaminated with elevated levels of metals and semivolatile organic compounds (SVOCs). Analyses of surface soils have also detected slightly elevated levels of PCBs at one location. Data indicate on-site groundwater is not impacted. Figure 2 presents the sample locations for soil and groundwater.

4.1.3: Extent of Contamination

Table I summarizes the extent of contamination for the contaminants of concern in soil, compares the data with the SCGs for the site, and indicates the frequency of exceeding SCGs. The following media were investigated and a summary of the findings is presented below.

Soil

The results of the SI indicate contamination in surface soil (0 - 3 inches) with metals, SVOCs, and PCBs exceeding SCGs (TAGM 4046 Recommended Soil Cleanup Objectives). The highest metal concentration detected was mercury at 6.5 ppm (SCG - 0.1 ppm). The highest concentrations of SVOCs detected include benzo(a)anthracene at 2.7 ppm (SCG - 0.224 ppm), chrysene at 2.7 ppm (SCG - 0.4 ppm), benzo(b)fluoranthene at 2.9 ppm (SCG - 1.1 ppm), benzo(k)fluoranthene at 1.2 ppm (SCG - 1.1 ppm), and benzo(a)pyrene at 2.4 ppm (SCG - 0.061 ppm). The highest concentration of PCBs (Aroclor 1260) detected was 1.4 ppm (SCG - 1 ppm).

The SI results also indicate isolated locations of subsurface soil contamination by metals, SVOCs, and a volatile organic compound (VOC) exceeding SCGs (TAGM 4046 Recommended Soil Cleanup Objectives). The highest concentrations of metals detected include arsenic at 17.2 ppm (SCG - 7.5 ppm or site background), lead at 640 ppm (SCG - 200 to 500 ppm), and mercury at 0.85 ppm (SCG - 0.1 ppm) in a sample collected from 1.5 - 2.5 feet below the surface at test pit B1; barium at 342 ppm (SCG - 300 ppm or site background) in a sample collected from 1 - 3 feet below the surface at soil boring G-8; and cadmium at 12.7 ppm (SCG - 1 ppm or site background) in a sample collected from 2 - 4 feet below the surface at soil boring G-4. The highest concentrations of SVOCs detected include benzo(a)anthracene at 16 ppm (SCG - 0.224 ppm), benzo(a)pyrene at 12 ppm (SCG - 0.061 ppm), chrysene at 26 ppm (SCG - 0.4 ppm), 2-methylnaphthalene at 62 ppm (SCG - 36.4 ppm), naphthalene at 15 ppm (SCG - 13 ppm), and phenanthrene at 53 ppm (SCG - 50 ppm) in a sample collected from 3 - 6 feet below the surface at test pit H1 near the UST. The highest VOC concentration detected was TCE at 1.4 ppm (SCG - 0.7 ppm) in a sample collected from 3.5 - 4 feet below the surface at soil boring GW-3.

Groundwater

The SI results indicate the November 2, 2001 groundwater analyses detected slightly elevated levels of certain metals, but these samples contained excessive turbidity. Generally, metals remain tightly bound to the soil and are not readily soluble in water. The January 11, 2001 samples collected with a low-flow pump (turbidity < 50 NTU) did not detect metals or detected them at

levels well below the SCGs. VOCs detected are below the SCGs. Groundwater results are presented in Table 2.

Waste Materials

The waste material in the underground storage tank was sampled and analyzed for Toxicity Characteristic Leaching Procedure (TCLP) and target compound list parameters. The results indicate the material is non-hazardous and is # 6 fuel oil.

4.2: Summary of Human Exposure Pathways

This section describes the types of human exposures that may present added health risks to persons at or around the site. A more detailed discussion of the health risks can be found in Section 6.0 of the SI report.

An exposure pathway is the manner by which an individual may come in contact with a contaminant. The five elements of an exposure pathway are: 1) the source of contamination; 2) the environmental media and transport mechanisms; 3) the point of exposure; 4) the route of exposure; and 5) the receptor population. These elements of an exposure pathway may be based on past, present, or future events.

The potential exposure pathways identified at the site are incidental ingestion, inhalation, and dermal contact with contaminated surface soil by people entering the site. Also, these three would be possible future exposure pathways for on-site utility and construction workers, if the site were redeveloped for industrial or commercial purposes.

Groundwater use is unlikely in the area around the site because homes and businesses are provided with public water from a distant source.

4.3: Summary of Environmental Exposure Pathways

This section summarizes the types of environmental exposures and ecological risks which may be presented by the site. The following pathways for environmental exposure or ecological risks have been identified:

There are no nearby surface waters or wildlife habitats that could be impacted by contaminated surface soils. Therefore, no current environmental exposure pathways exist at the site. However, measures must be taken to mitigate potential environmental concerns from the underground storage tank.

SECTION 5: ENFORCEMENT STATUS

Potentially Responsible Parties (PRPs) are those who may be legally liable for contamination at a site. This may include past owners and operators, waste generators, and haulers. Since no viable PRPs have been identified, there are currently no ongoing enforcement actions. However,

legal action may be initiated at a future date by the State to recover State response costs should PRPs be identified. The City of Elmira will assist the State in its efforts by providing all information to the State which identifies PRPs. The City will also not enter into any agreement regarding response costs without the approval of the NYSDEC.

SECTION 6: <u>SUMMARY OF THE REMEDIATION GOALS AND THE PROPOSED USE</u> <u>OF THE SITE</u>

Goals for the remedial program have been established through the remedy selection process stated in 6 NYCRR Part 375-1.10. The overall remedial goal is to meet all SCGs and be protective of human health and the environment. At a minimum, the remedy selected must eliminate or mitigate all significant threats to public health and to the environment presented by the hazardous substances disposed at the site through the proper application of scientific and engineering principles.

The proposed future use for the Former American LaFrance site is light industrial or commercial. The goals selected for this site are:

- to reduce, control, or eliminate to the extent practicable the contamination present within the site soil:
- to eliminate the potential for direct human exposure to contaminated soils on-site; and
- to prevent, to the extent possible, migration of site contaminants in the site soil to groundwater.

SECTION 7: SUMMARY OF THE EVALUATION OF ALTERNATIVES

The selected remedy must be protective of human health and the environment, be cost effective and comply with other statutory requirements. Potential remedial alternatives for the Former American LaFrance site were identified, screened and evaluated in a remedial alternatives report. This evaluation is presented in the report entitled Remedial Alternatives Report dated December 2000. In-situ treatment of the petroleum contaminated soil associated with the fuel oil tank was not viable because: 1) the consistency of the product is such that air sparging and vapor extraction are not appropriate treatments and 2) an oxygen release compound (ORC) has been evaluated and found to be prohibitive in cost compared to source removal. Therefore, the evaluation of remedial alternatives focused on source removal options. A summary of the detailed analysis follows.

As presented below, the time to implement reflects only the time required to implement the remedy, and does not include the time required to design the remedy or procure contracts for design and construction.

7.1: Description of Remedial Alternatives

The potential remedies are intended to address the contaminated soils and groundwater at the site.

Alternative 1 - No Action

Present Worth: \$ 2	8,188
Capital Cost:	. \$0
Annual O&M:	1.875
Time to Implement:	NA

The No Action alternative is typically evaluated as a procedural requirement and as a basis for comparison. It only requires continued long-term monitoring of the existing wells, allowing the site to remain in an unremediated state. The source (UST) would continue to release contaminants to subsurface soil, and eventually, groundwater. Therefore, this alternative would not provide any additional protection to human health or the environment.

Alternative 2 - Source (UST) Removal, Grass Cover, Soil Management Plan, and Deed Restriction

Present Worth:	87
Capital Cost:	87
Annual O&M:	0
Time to Implement:	hs

This alternative would include removal of the UST containing 6,000 gallons of non-hazardous # 6 fuel oil) and an estimated 500 cubic yards of associated contaminated soil in accordance with 6NYCRR Part 613 and TAGM 4046. It would also include establishment of grass cover over the exposed soil areas to minimize exposure to surface soil until development commences. Additionally, a soil management plan (SMP) would be developed that would include but not be limited to soil management, characterization, and disposal in accordance with applicable NYSDEC regulations. The SMP would also include placement of a minimum one foot thick soil cover in all areas of the site to be green space under the future redevelopment plan. A geotextile fabric or similar material would be installed between the soil cover and the existing surface soils to stabilize and serve as a demarcation between the cover and the contaminated soils below. Areas to be paved or where buildings are planned would not require the placement of the soil cover. A deed restriction would be placed on the property to limit future site use to industrial or commercial use. Future commercial use of the site would exclude such activities as day care centers. Further, the deed restriction would require that the site redevelopment or excavation shall proceed in compliance with the NYSDEC-approved SMP and, that the future property owners shall annually certify to the NYSDEC that the remedy continues to be maintained in accordance with the site ROD.

Alternative 3 - Source (UST) Removal, Contaminated Surface Soil Removal, Soil Management Plan, and Deed Restriction

Present Worth:	5 564,630
Capital Cost: S	564,630
Annual O&M:	\$0
Time to Implement:	. 1 year

This alternative would include all the remedial components of Alternative 2, except grass cover. Additionally, this alternative would include excavation and removal of surface soil to a depth of 6 inches with contaminant concentrations exceeding TAGM 4046 levels. It is estimated that 3,500 cubic yards of contaminated surface soil would be removed from the site and disposed of at a NYSDEC- permitted landfill. The deed restriction required would be similar to the one described in Alternative 2.

Alternative 4 - Source (UST) Removal and Removal of Contaminated Surface and Subsurface Soil Exceeding SCGs

Present Worth:	\$ 664,889
Capital Cost:	\$ 664,889
Annual O&M:	\$0
Time to Implement:	1.5 years

This alternative would include removal of the UST as described in Alternatives 2 and 3. Additionally, this alternative would include excavation and removal of surface and subsurface soil (up to 3 feet below grade) with contaminant concentrations exceeding TAGM 4046 levels. It is estimated that up to 4000 cubic yards of contaminated soil would be removed from the site and disposed of at a NYSDEC-permitted landfill.

7.2: Evaluation of Remedial Alternatives

The criteria used to compare the potential remedial alternatives are defined in the regulation that directs the remediation of environmental restoration project sites in New York State (6 NYCCR Part 375). For each of the criteria, a brief description is provided followed by an evaluation of the alternatives against that criterion. A detailed discussion of the evaluation criteria and comparative analysis is included in the Remedial Alternatives Report.

The first two evaluation criteria are termed threshold criteria and must be satisfied in order for an alternative to be considered for selection.

1. <u>Compliance with New York State Standards. Criteria. and Guidance (SCGs)</u>. Compliance with SCGs addresses whether or not a remedy will meet applicable environmental laws, regulations, standards, and guidance.

The most significant SCGs that the remedy at this site should meet are: 6NYCRR Part 613, Section 613.9 - Closure of Out-of Service Tanks; Division of Environmental Remediation Technical and Administrative Guidance Memorandum (TAGM) # 4046 - Determination of Soil Cleanup Objectives and Cleanup levels: 6NYCRR Part 703 - groundwater standards: and 10NYCRR Part 5 - drinking water standards.

Alternative I would not meet the New York State SCGs as no action beyond continued monitoring will occur, leaving unacceptable contamination in soil. Alternatives 2 and 3 would include source (UST) removal and remediate contaminated surface soil to comply with SCGs, but would not remediate isolated areas of contaminated subsurface soil. Alternative 4 would include source (UST) removal and would remediate contaminated surface soil as well as isolated locations of contaminated subsurface soil, to comply with SCGs. However, for the intended industrial or commercial use of the site. Alternatives 2, 3, and 4 would meet the remedial goals established for the site.

2. <u>Protection of Human Health and the Environment</u>. This criterion is an overall evaluation of each alternative's ability to protect public health and the environment.

Alternative 1 would not meet this criterion because it involves no remedial action, leaving unacceptable contamination in soil. Alternatives 2 and 3 include source (UST) removal and remediation of surface soil. Also, a soil management plan would be implemented during site restoration and future ground intrusive site activities to protect on-site workers. These measures would help minimize current and future human and environmental exposures. Alternative 4 would also remediate subsurface soil. For intended industrial or commercial use of the site, however, Alternatives 2, 3, and 4 would all be protective of human health and the environment and would meet this criterion.

The next five "primary balancing criteria" are used to compare the positive and negative aspects of each of the remedial strategies.

3. <u>Short-term Effectiveness</u>. The potential short-term adverse impacts of the remedial action upon the community, the workers, and the environment during the construction and/or implementation are evaluated. The length of time needed to achieve the remedial objectives is also estimated and compared against the other alternatives.

There would be no short-term impacts from the implementation of Alternative 1. Alternatives 2, 3 and 4 would disturb contaminated soil and would have potential to generate fugitive dust. However, remedial actions under these alternatives include a soil management plan which should minimize exposure to workers and the nearby community. Therefore, Alternatives 2, 3 and 4 would equally satisfy this criterion.

4. <u>Long-term Effectiveness and Permanence</u>. This criterion evaluates the long-term effectiveness of the remedial alternatives after implementation. If wastes or treated residuals remain on-site after the selected remedy has been implemented, the following items are evaluated: 1) the

magnitude of the remaining risks; 2) the adequacy of the controls intended to limit the risk; and 3) the reliability of these controls.

Alternative I would not meet this criterion as it would leave contaminants on-site without controls. Alternatives 2 and 3 would include placement of 12 inches of soil cover to address soil contamination. Additionally, Alternative 3 would include excavation and removal of contaminated surface soil. Alternatives 2 and 3 would also include deed restrictions limiting site use, and a soil management plan for future ground intrusive site activities to protect workers and the community. Alternative 4 provides the most comprehensive removal action and thus best achieve this criterion. For the intended industrial or commercial use of the site, however, all these are considered adequate and reliable long-term controls. Therefore, Alternatives 2, 3 and 4 would all satisfy this criterion, with Alternative 4 being a more permanent remedy, as it removes all soils contaminated above SCGs.

5. Reduction of Toxicity, Mobility or Volume. Preference is given to alternatives that permanently and significantly reduce the toxicity, mobility or volume of the hazardous substances at the site.

Alternative 1 would not meet this criterion as it does not involve any remedial action. Alternative 2 would reduce volume (UST removal) and mobility (soil cover) of site contaminants. Alternative 3 would reduce the volume of contaminants more than Alternative 2 by removing contaminated surface soil. Alternative 4 would reduce the volume of contaminants more than Alternative 3 as, in addition to removing contaminated surface soil, it would also remove contaminated subsurface soil. Therefore, Alternatives 4 would better satisfy this criterion than Alternative 3. Likewise, Alternative 3 would better satisfy this criterion than Alternative 2.

6. <u>Implementability</u>. The technical and administrative feasibility of implementing each alternative are evaluated. Technical feasibility includes the difficulties associated with the construction and the ability to monitor the effectiveness of the remedy. For administrative feasibility, the availability of the necessary personnel and material is evaluated along with potential difficulties in obtaining specific operating approvals, access for construction, etc.

Alternative 1 would meet this criterion as no action would be required. Alternatives 2 and 3 are easy to implement and effectively monitor and would meet this criterion. Alternative 4 would entail a greater level of effort in light of the deeper excavation, however, this could be accomplished via standard construction techniques.

7. Cost. Capital and operation and maintenance costs are estimated for each alternative and compared on a present worth basis. Although cost is the last balancing criterion evaluated, where two or more alternatives have met the requirements of the remaining criteria, cost effectiveness can be used as the basis for the final decision. The costs for each alternative are presented in Table 3.

This final criterion is considered a modifying criterion and is taken into account after evaluating those above. It is evaluated after public comments on the Proposed Remedial Action Plan have been received.

8. Community Acceptance - Concerns of the community regarding the SI/RAR reports and the Proposed Remedial Action Plan have been evaluated. The "Responsiveness Summary" included as Appendix A presents comments received and the Department's response to the concerns raised. In general the public comments received were supportive of the selected remedy. Several comments were received, however, pertaining to cancer cases in the area. These comments mainly included reference to the 1972 Chemung River floods that brought contamination to their properties, including contaminants from the American LaFrance property. The comments did not require any change in the remedy.

SECTION 8: SUMMARY OF THE SELECTED REMEDY

Based on the results of the SI/RAR, and the evaluation presented in Section 7, the NYSDEC is selecting Alternative 2 as the remedy for this site.

This selection is based on the evaluation of the four alternatives developed for this site. With the exception of the No Action alternative, each of the alternatives will comply with the threshold criteria for the intended industrial or commercial future site use and will achieve the remedial goals. In addition, except the No Action alternative, all alternatives are similar with respect to the majority of the balancing criteria. The only major difference between these alternatives is cost. While Alternatives 2, 3, and 4 will remove the fuel oil tank and associated contaminated soil, Alternatives 3 and 4 will provide limited additional environmental benefit at substantial increase in cost. For the intended industrial or commercial use of the site, all the three alternatives are considered technically similar. Therefore, Alternative 2 (UST removal, grass cover, soil management plan, and deed restriction) is the selected remedy for this site. Please refer to Figure 3 for a conceptual sketch of the selected remedy.

The estimated present worth cost to implement the remedy is \$204,887 which is the cost to construct the remedy. No operation and maintenance costs are involved in this remedy.

The elements of the selected remedy are as follows:

- removal of an underground storage tank (UST) containing 6000 gallons of non-hazardous # 6 fuel oil and approximately 500 cubic yards of associated contaminated soil in accordance with 6NYCRR Part 613 and TAGM 4046;
- establishment of grass cover over the exposed soil areas of the site to minimize exposure to surface soil:
- development of a long-term soil management plan (SMP) to address remaining contaminated soils excavated at the site during future redevelopment or excavation. The plan will include but not be limited to soil management, characterization, and disposal in

accordance with applicable NYSDEC regulations. Additionally, the SMP will include placement of a minimum one foot thick soil cover in all areas of the site to be green space under the proposed redevelopment plan. A geotextile fabric or similar material will be installed between the soil cover and the existing surface soils to stabilize and serve as a demarcation between the cover and the contaminated surface soils. Areas to be paved or where buildings are planned will not require the placement of the soil cover. The SMP must be submitted to and approved by the NYSDEC before any redevelopment or excavation occurs at the site; and

implementation of a deed restriction to limit future site use to industrial or commercial use. The future commercial use of the site will exclude activities such as day care centers. Further, the deed restriction will require that the site redevelopment or excavation shall proceed in compliance with the approved SMP and, that the future property owners shall annually certify to the NYSDEC that the remedy continues to be maintained in accordance with this ROD.

SECTION 9: HIGHLIGHTS OF COMMUNITY PARTICIPATION

As the part of the Former American LaFrance site environmental restoration project, a number of Citizen Participation activities were undertaken in an effort to inform and educate the public about conditions at the site and the potential remedial alternatives. The following public participation activities were conducted for the site.

- A repository for documents pertaining to the site was established.
- A site mailing list was established which included nearby property owners, local political officials, local media, and other interested parties.
- A fact sheet containing the information about the upcoming environmental investigation was distributed using the mailing list in September 1998.
- A fact sheet announcing the public meeting and the availability of the Proposed Remedial Action Plan (PRAP) was distributed using the mailing list in February 2002.
- In March 2002, a Responsiveness Summary was prepared and made available to the public, to address the comments received during the public comment period for the PRAP.

Table 1
Former American LaFrance Environmental Restoration Site
City of Elmira, Chemung County

Nature and Extent of Contamination

MÉDIÚM	CATEGORY	CONTAMINANT OF CONCERN	CONCENTRATION RANGE*	FREQUENCY OF EXCEEDING SCGs OR BACKGROUND	SCG/ BACKGROUND
Soil (subsurface)	volatile organic compounds (VOCs)	trichlorethene (TCE)	ND - 1.4	2 of 20	0.7
	SVOCs	2-methylnaphthalene	ND - 62	1 of 20	36.4
		benzo(a)anthracene	ND - 16	4 of 20	0.224
		benzo(a)pyrene	ND - 12	4 of 20	0.061
		chrysene	ND - 26	4 of 20	0.4
		naphthalene	ND - 15	1 of 20	13
		phenanthrene	ND - 53	1 of 20	50
	metals	arsenic	ND - 17.2	1 of 20	7.5
		cadmium	ND - 12.7	1 of 20	10
		lead	4.86 - 640	1 of 20	200 - 500**
		mercury	ND - 0.85	5 of 20	0.1
		barium	65.2 - 342	1 of 20	300
Soil	SVOCs	benzo(a)anthracene	ND - 2.7	2 of 3	0.224
(surface)		chrysene	ND - 2.7	2 of 3	0.4
		benzo(b)fluoranthene	ND - 2.9	2 of 3	1.1
		benzo(k)fluoranthene	ND - 1.2	1 of 3	1.1
		benzo(a)pyrene	ND - 2.4	2 of 3	0.061
	metals	mercury	0.089 - 6.5	2 of 3	0.1
	PCBs	arochlor 1260	ND - 1.4	1 of 3	1

* soil concentrations are expressed in ppm.

^{**}Typical range of average background levels in metropolitan or suburban areas.

Table 2 Former American LaFrance Environmental Restoration Site City of Elmira, Chemung County

Compounds/Analytes Detected in Groundwater

Category	Compound/ Analyte of Concern	MW-1		MW-2		MW-3		SCGs
		11/2/99	.1/11/01*	. 11/2/99 .	-1/11/01*	-11/2/99 .	1/11/01*	ngayon—proje
V'OCs	acetone	ND	NA	0.041	NA ·	ND	NA	0.05
	chloroform	0.005	NA	ND	NA	ND	NA	0.007
metals	arsenic	0.006	ND	0.034	ND/ND	0.065	ND/ND	0.025
	barium	0.199	0.16	0.3	0.22/0.245	1.17	0.162/0.172	1
	cadmium	ND	ND	ND	ND/ND	ND	0.001/ND	0.005
	chromium	0.01	ND	0.027	ND/ND	0.057	ND/ND	0.05
	lead	0.01	0.011	0.021	0.004/ND	0.12	0.035/0.0077	0.025
	mercury	ND	ND	ND	ND/ND	0.0006	ND/ND	0.0007

Notes: -All concentrations are in ppm

⁻ND = none detected, NA = not analyzed -NYSDEC split sample results are in bold type

^{*1/11/01} samples were collected with low-flow pump

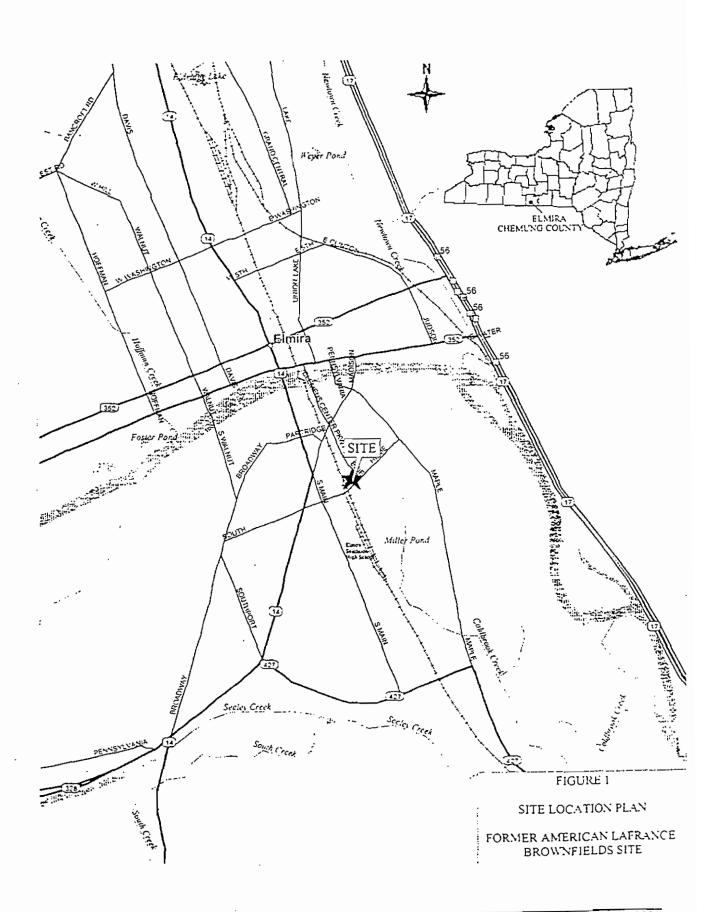
Table 3
Former American LaFrance Environmental Restoration Site
City of Elmira, Chemung County

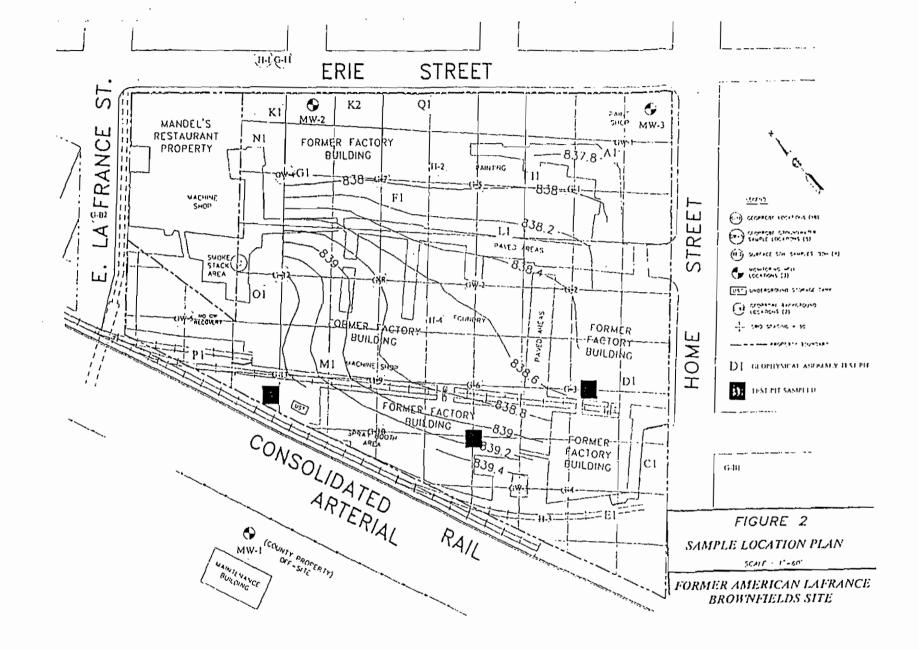
Remedial Alternative Costs

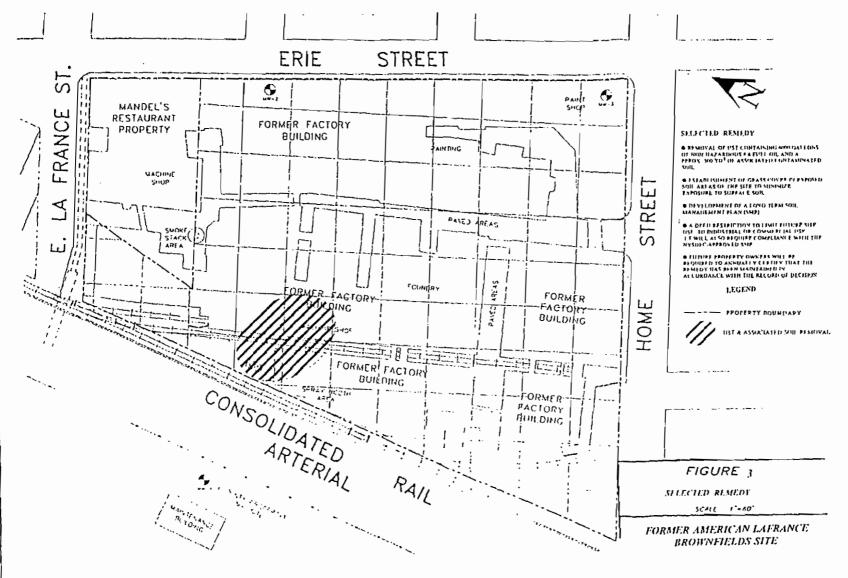
Number	Remedial Alternative Description	Capital Cost	Annual O&M	Present Worth of Annual O&M	Total Present Worth
1	No action	50	\$1,875	\$28,188*	\$28,188
2	Source (UST) removal, grass cover, soil management plan, and deed restriction	\$204,887	0	0	\$204,887
3	Source (UST) removal, contaminated surface soil removal, soil management plan, and deed restriction	\$564,630	0	0	\$564.630
4	Source (UST) removal and contaminated surface and subsurface soil removal	\$664.889	0	0	\$664,889

Note: Cost estimates are for feasibility study comparison purposes only and are not to be used for construction budgeting or bid purposes.

^{*} Present worth cost for 30 years @ 5% interest rate.







RESPONSE 9: Based on the results of the site investigation, the only hot spot at the site is the location of the underground storage tank. The PRAP includes excavation, removal, and appropriate off-site disposal of the underground tank with 6000 gallons of #6 fuel oil and associated contaminated soil. Surface soils and pockets of subsurface soils are contaminated with semivolatile organic compounds and metals at levels above the NYSDEC Recommended Soil Cleanup Objectives, but these areas are not considered hot spots.

COMMENT 10: Were Sanborn maps used to indicate what type of manufacturing was done at the site in the past?

RESPONSE 10: Yes, available Sanborn maps from 1887 to 1990 were used to indicate the types of activities that occurred at the site in the past. American LaFrance Company operated at this site from 1925 to 1980 under different names: American LaFrance Fire Engine Co., American LaFrance and Foamite Co., American LaFrance Foamite Corporation, American LaFrance - a division of Sterling Precision Instruments, and American LaFrance - a division of Automatic Sprinkler Corporation.

COMMENT 11: Will the soil management plan mandate proper disposal of the excavated soil? Can you be sure this soil won't end up in someone's back yard?

RESPONSE 11: As outlined in the PRAP, a soil management plan would be developed by the City of Elmira and approved by the NYSDEC. The soil management plan would ensure that the soils excavated at the site are properly characterized, and contaminated soil disposed of in accordance with applicable NYSDEC regulations.

COMMENT 12: The building on the corner of Erie Street and Mechanic Street is being excavated without soil sampling. American LaFrance used that building as a paint shop. Why wasn't this building ever tested? The State taxes we pay should cover this testing. Can DOH initiate a soil sampling of this site? Would it be the DOH or DEC who would test this building and site?

RESPONSE 12: The building on the corner of Erie street and Mechanic Street is privately owned and not a part of this project. The City owned 4.35-acre former American LaFrance site was investigated under the State's Brownfields Program. As explained in Response 4, the fund provides financial assistance to municipalities to investigate and/or remediate brownfield properties known or suspected to be contaminated with hazardous substances or petroleum. The State would not investigate an off-site property, even if it may have been historically used by the industry at the Brownfield site unless, it is determined that the on-site contamination has impacted that off-site property. Based on the results of investigation at the Former American LaFrance site, the State does not believe any off-site properties are impacted by the on-site contamination. Therefore, the site you describe was not investigated. If you have information regarding hazardous waste disposal at the property on the corner of Erie Street and Mechanic Street, please submit it to the New York State Department of Environmental Conservation, 6274 E. Avon-Lima

Road, Avon, NY 14414, Attn: Todd Caffoe, P.E.; we will evaluate this information and assess if sampling is warranted.

COMMENT 13: Who determines how the fact sheets are mailed? I live on Falck Street and got the mailings, but I know other people who would like to be on the mailing list.

RESPONSE 13: The Project Manager working with the Citizens Participation Specialist determines how fact sheets are mailed. By NYSDEC policy, residents adjacent to the site, property owners adjacent to a site, and owners of rights of way adjacent to a site (e.g. utilities), are added to the list. In addition, the municipality may add names to the list. In this case, the City of Elmira added names of residents and property owners beyond the adjacent property owners.

Additionally, a portion of the mailing list includes media, elected officials, environmental interest groups, Federal, State, and Local Government agencies. Document repositories are set up to send all information on the site cleanup to public access points, such as libraries, town halls, or neighborhood associations. Fact sheets are also put on the NYSDEC's regional website.

There are return mailers attached to fact sheets sent out. The mailers allow people who are on the initial list to add/change/or delete names from the mailing list. Therefore, if a friend or neighbor did not receive the mailing, they have the opportunity to send back the mailer and request to be added to the mailing list. The fact sheets also have the names and numbers of the project manager and Citizens Participation Specialist to contact for inclusion or deletion from the mail list. All citizens are welcome to be placed on any mailing list for any site they may be interested in.

COMMENT 14: Can acid rain mix with the contaminants and create any sort of chemical compound mixture that is hazardous and can effect the community?

RESPONSE 14: Metals and semivolatile organic compounds in site soil exceed the NYSDEC Recommended Soil Cleanup Objectives. Acid rain can cause very small amounts of metals present in soil to leach into groundwater and surface water. However, all soils are not equally susceptible to acidification. Counteracting forces such as the buffering capacity of soil, texture, pH, salt content, and soil permeability could mitigate the overall final effect. At this site, concentrations of metals detected in groundwater are well below the New York State groundwater standards. Additionally, drinking water in the area is supplied by the Elmira Water Board. The semivolatile organic compounds (SVOCs) present in soil at the site would not be affected by acid rain. Therefore, no adverse effects from site contaminants are anticipated because of acid rain.

APPENDIX B - ADMINISTRATIVE RECORD

Former American LaFrance site Environmental Restoration Proposed Remedial Action Plan City of Elmira, Chemung County

Proposed Remedial Action Plan dated February 2002
 Groundwater Sampling Report dated January 11, 2001
 Final Remedial Alternatives Report dated December 2000
 Final Site Investigation Report dated December 2000
 Addendum # 2 to Final Site Investigation Work Plan dated July 1999
 Addendum # 1 to Final Site Investigation Work Plan dated May 1999
 Data Usability Summary Report (DUSR) dated May 1999

Final Site Investigation Work Plan dated September 1998

Brownfield Application dated April 1997

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