

# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blairstone Road  
Tallahassee, Florida 32399-2400

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

August 27, 2008

Gregory Reynolds  
Water Recovery Inc  
1819 Albert St  
Jacksonville, FL 32202- 1103

## BE IT KNOWN THAT

Water Recovery Inc  
1819B Albert St  
Jacksonville, FL 32202- 1103

	Initials _____
	Date _____

## IS HEREBY REGISTERED AS A USED OIL

Transporter, Transfer Facility, Processor, Marketer, Filter Transporter,  
Filter Transfer Facility, Filter Processor

pursuant to Chapter 62-710, Florida Administrative Code (F.A.C)  
The Department of Environmental Protection hereby issues  
Registration Number **FLR000069062** on August 27, 2008

**This registration will expire on 06/30/2009**

This certificate documents receipt of your annual registration  
and annual report. It shall be displayed in a prominent place  
at your facility. This certificate and your cancelled check  
are your receipts.

**Richard C. Neves**  
**Environmental Specialist III**  
**Hazardous Waste Regulation**  
**Permitting**

**Sullivan, Theresa A.**

---

**From:** Sullivan, Theresa A.  
**Sent:** Wednesday, August 27, 2008 9:33 AM  
**To:** 'greynolds@wrijax.com'  
**Subject:** Used Oil certificate for Water recovery Inc.  
**Attachments:** Water recovery Inc\_JacksonvilleUO.pdf

Gregory,

In an effort to provide a more efficient service, the Florida Department of Environmental Protection's Hazardous Waste Management Section is forwarding the attached document(s) to you by electronic correspondence in lieu of a hard copy through the normal postal service.

We ask that you verify receipt of this document by simply hitting "reply" to this message, with no message text required. If your email address has changed or you anticipate that it will change in the future, or if for some reason you need a hard copy of this documents, please advise accordingly in your reply. You may also update this information by contacting me at the number below.

The attached document(s) are in "pdf" format and will require Adobe Reader 6 or higher to open. You may download a free copy of this at [www.adobe.com./products/acrobat/readstep2.html](http://www.adobe.com./products/acrobat/readstep2.html).

Please note, our documents are sent virus free. However, if you use Norton anti-virus software, a warning may appear when attempting to open the document. Please disregard this warning if it happens.

We look forward to your reply and should you have any questions regarding the attached document(s), as stated previously, you may contact me at the number below.

Thank you,

*Theresa Sullivan*  
*Bureau of Solid and Hazardous Waste*  
*2600 Blairstone Road, MS-4550*  
*Tallahassee, FL 32399*  
*Fax: 850-245-8803*  
*Ph: 850-245-8706*  
[theresa.a.sullivan@dep.state.fl.us](mailto:theresa.a.sullivan@dep.state.fl.us)



Department of Environmental Protection  
Post Office Box 3070 Tallahassee, Florida 32399-2400

DEP Form #62-710.901(1)  
Form Title Application for Registration  
Used Oil & Oil Filter Handlers  
Effective Date June 9, 2005

## Application for Registration Used Oil and Oil Filter Handlers\*

MAR 03 2008

\*Handlers are any persons subject to the registration requirements of Rule 62-710.500 and 62-710.850, F.A.C. (see item 4b below)  
For registration period July 1, 2008 through June 30, 2009

Please print or type

1. Business Name Water Recovery Inc FEID No. 52-2183567  
DBA (Doing Business As) \_\_\_\_\_ Telephone No. (904) 475-9320  
Business Mailing Address: 1819 Albert St.  
City: Jacksonville County: Duval State: FL Zip Code: 32202  
Site Address: \_\_\_\_\_  
City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

2. Name of Contact Person (if different from owner/operator) Gregory Reynolds  
Telephone No. (904) 475-9320 email: greynolds@wrjax.com

3. The records required under the provisions of Rule 62-710.510, F.A.C. are kept (check one):  
☐ at our mailing (business) address ☒ at the site (facility) address

4. Include the registration fee of \$100.00, in the form of a check or money order payable to Florida Department of Environmental Protection. Permitted Used Oil Processing Facilities are exempt from this fee.

4a. Registration Status: \_\_\_\_\_ New ☒ Renewal EPA ID No. FLR 0000 1090102

4b. Check boxes which apply to your used oil/used oil filter activity(ies).

Used Oil: ☒ Transporter ☒ Transfer Facility ☒ Collection Center/Aggregation Point ☒ Marketer ☐ Processor  
☐ Burner of off-spec used oil

Used Oil Filter: ☒ Transporter ☒ Transfer Facility ☒ Processor ☐ End User

### 5. Certification

5a. General Certification to be signed by all Registrants:

To the best of my knowledge and belief I certify the information provided in this application is true, accurate and correct.

Gregory Reynolds  
Name of Authorized Person (Print or Type)

Jo. Reynolds  
Signature of Authorized person

2/29/08  
Date

5b. Specific Certification to be signed by all Used Oil Transporters

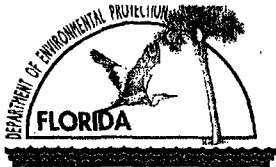
(Except those exempted by Rule 62-710.600(1), F.A.C.)

I certify as a Used Oil Transporter that the training program and financial responsibility required under Section 62-710.600, F.A.C., are in place, current and being adhered to. If any modifications have been made to the originally approved training program, they are explained in attachments to this registration form. Evidence of financial responsibility is demonstrated by the attached Used Oil Transporter Certificate of Liability Insurance, DEP form 62-710.901(4), F.A.C.

Gregory Reynolds  
Name of Authorized Person (Print or Type)

Jo. Reynolds  
Signature of Authorized person

2/29/08  
Date



## Certificate of Liability Insurance Used Oil Transporters

Please Print or Type Form

1. Steadfast Insurance Company, (the Insurer), 1400 American Lane, Schaumburg, IL  
(Name of the Insurer) (Address of the Insurer)

hereby certifies that it has issued liability insurance to: Water Recovery, Inc. (the Insured),  
(Name of the Insured)

P.O. Box 330569, Atlantic Beach, FL whose EPA Identification number is FLR000069092  
(Address of the Insured) 32233

This insurance complies with the insured's obligation to demonstrate the financial responsibility required by Florida

Administrative Code Rule 62-710.600(2)(d). [See page 2 on the back side of this Form]

The insurance is primary and the company shall be liable for amounts up to \$ 1,000,000 less the deductible or retention of \$ 250,000 for each accident exclusive of legal defense costs. If a deductible or retention is applied, its amount may not exceed 10% of the equity of the Insured.

This coverage is provided under policy number PLC 9033254-00, issued on April 5, 2007.  
(Date)

The expiration date of said policy is 01/18/2010 or the annual renewal date is 01/18/2010.  
(Date) (Date)

2. The Insurer further certifies the following with respect to the insurance described in Paragraph 1:

- Bankruptcy or insolvency of the insured shall not relieve the Insurer of its obligations under this policy.
- The Insurer is liable for the payment of amounts within any deductible applicable to the policy, with a right of reimbursement by the Insured for any such payment made by the Insurer.
- Whenever requested by the Secretary (or designee) of the Florida Department of Environmental Protection (FDEP), the Insurer agrees to furnish to the Department a signed duplicate original of the policy and all endorsements.
- Cancellation of the insurance, whether by the Insurer or the Insured or by any other termination of the insurance (e.g. expiration or non-renewal), will be effective only upon written notice and only after the expiration of thirty (30) days after a copy of such written notice is received by the Secretary of the FDEP as evidenced by certified mail return receipt.
- The Insurer shall not be liable for the payment of any judgment or judgments against the insured for claims resulting from accidents which occur after the termination of the insurance described herein, but such termination shall not affect the liability of the Insurer for the payment of any such judgments resulting from accidents which occur during the time the policy is in effect.

I hereby certify that the Insurer is licensed to transact the business of insurance, or eligible to provide insurance as an excess or surplus line insurer, in one or more States, including Florida.

Jeff Wyatt  
(Signature of Insurer or Authorized Representative)

Authorized Representative of

Jeff Wyatt  
(Type Name)

Steadfast Insurance Company  
(Name of Insurer)

Regional Vice President  
(Title)

1400 American Lane, Schaumburg, IL  
(Address of Representative)

**ACORD CERTIFICATE OF LIABILITY INSURANCE**DATE (MM/DD/YY)  
02/04/08**PRODUCER**Aon Risk Services, Inc. of Florida  
13901 Sutton Park Drive South  
Suite 360 - Building C  
Jacksonville FL 32224 USATHIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY  
AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS  
CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE  
COVERAGE AFFORDED BY THE POLICIES BELOW.

PHONE (904) 724-2001

FAX (904) 223-1155

**INSURERS AFFORDING COVERAGE****INSURED**Water Recovery, LLC  
P O Box 330569  
Atlantic Beach FL 32233-2613 USA

INSURER A Steadfast Insurance Company

INSURER B Zurich American Ins Co

INSURER C Zenith Insurance Co

INSURER D

INSURER E

**Poor Original****COVERAGES:** This Certificate is not intended to specify all endorsements, coverages, terms, conditions and exclusions of the policies shown.

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
B	GENERAL LIABILITY	GL09033253-01 General liability	01/18/08	01/18/09	EACH OCCURRENCE	\$1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY				FIRE DAMAGE (Any one fire)	\$100,000
	CLAIMS MADE <input checked="" type="checkbox"/> OCCUR				MED EXP (Any one person)	\$5,000
	GENERAL AGGREGATE LIMIT APPLIES PER				PERSONAL & ADJ INURY	\$1,000,000
	<input type="checkbox"/> POLICY <input type="checkbox"/> PROJECT <input type="checkbox"/> LOC				GENERAL AGGREGATE	\$3,000,000
					PRODUCTS - COMBOP AGG	\$3,000,000
B	AUTOMOBILE LIABILITY	BAP9162216-01	01/18/08	01/18/09	COMBINED SINGLE LIMIT (Per accident)	\$1,000,000
	<input checked="" type="checkbox"/> ANY AUTO				BODILY INJURY (Per person)	
	<input type="checkbox"/> ALL OWNED AUTOS				BODILY INJURY (Per accident)	
	<input type="checkbox"/> SCHEDULED AUTOS				PROPERTY DAMAGE (Per accident)	
	<input type="checkbox"/> HIRED AUTOS					
	<input type="checkbox"/> NON OWNED AUTOS					
	GARAGE LIABILITY				AUTO ONLY - EX ACIDENT	
	<input type="checkbox"/> ANY AUTO				OTHER THAN AUTO ONLY - EX AGG	
	EXCESS LIABILITY				EACH OCCURRENCE	
	<input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE				AGGREGATE	
	<input type="checkbox"/> DEDUCTIBLE					
	<input type="checkbox"/> RETENTION					
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	Z069628401 Workers Compensation USL&W Inc	01/18/08	01/18/09	<input checked="" type="checkbox"/> W/ STATE-TOY LIMITS <input type="checkbox"/> OTHER	
					E.L. EACH ACCIDENT	\$1,000,000
					E.L. DISEASE - POLICY LIMIT	\$1,000,000
					E.L. DISEASE - FA EMPLOYEE	\$1,000,000
A	OTHER	PLC903325400	02/15/07	01/18/10	Per Claim Limit	\$1,000,000
	<input checked="" type="checkbox"/> Pollution/Env Imp				Aggregate Limit	\$2,000,000

**DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/EXCLUSIONS ADDED BY ENDORSEMENT/SPECIAL PROVISIONS**

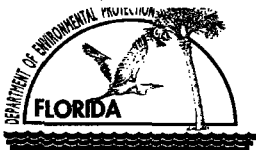
Certificate Holder is noted as Additional Insured/lessor with respect to General Liability as required by written contract and ATIMA.

**CERTIFICATE HOLDER****CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Aon Risk Services, Inc. of Florida



# Department of Environmental Protection

FDEP, MS 4555, 2600 Blair Stone Road Tallahassee, Florida 32399-2400

DEP Form #62-710.901(3)  
Form Title Annual Report by Used Oil  
and Used Oil Filter Handlers  
Effective Date June 9, 2005

## Annual Report by Used Oil and Used Oil Filter Handlers\*

(\*Handlers are any persons subject to the registration requirements of rule 62-710.500 and 62-710.850, F.A.C. [See Section A, Box 5 below])  
for reporting period January 1, 2007 through December 31, 2007

Use the information recorded in your Record Keeping Form [62-710.901(2)] or equivalent to complete this document

### SECTION A TO BE COMPLETED BY ALL REGISTERED PERSONS

1. Company Name: Water Recovery Inc. 2. Telephone No. 904) 475 9320  
Site Address: 1819 Albert Street  
Jacksonville FL 32202 3. EPA ID No. FLR 0000 169062  
☐ Check box if any of the above items (1-3) have changed since your last registration  
4. Name of person preparing report (please print) Gregory Reynolds  
Title Vice President + General Mgr Phone number (if different from #2, above) ( )  
5. Type of operation (check as many as apply to your operations)  
Used Oil: ☐ Transporter ☐ Transfer Facility ☐ Collection Center/Aggregation Point ☐ Processor ☐ Marketer  
☐ Burner (of off-specification used oil)  
Used Oil Filter: ☒ Transporter ☒ Transfer Facility ☒ Processor ☐ End User

### SECTION B USED OIL (TO BE COMPLETED BY ALL REGISTERED USED OIL HANDLERS. USED OIL FILTER HANDLERS SEE SECTION C)

1. Amount (in gallons) of Used Oil and Oily Wastes collected

- a. In Florida.....  
b. From out of state.....

Automotive	Industrial	Mixed	Total
	559963		559963
	186654		186654
c. Beginning Inventory.....			10000 est
d. Total (sum of totals from Lines a + b + c).....			806618

2. Amount (in gallons) of Used Oil and Oily Wastes Managed

- N - Not an end use, transferred to another facility for storage or processing.....  
O - Marketed as an on-specification used oil fuel.....  
F - Marketed as an off-specification used oil fuel.....  
I - Marketed for an industrial process.....  
B - Burned as an off-specification used oil fuel .....
- D - Disposed of  
Landfilled.....  
Treated at a wastewater treatment unit.....  
Incinerated.....

In State	Out of State
0	579668
136950	
	90000 est

3. Total amount (in gallons) of used oil managed.....  
4. End of year, on hand estimate (Difference between Lines 1D and Line 3).....

**SECTION C USED OIL FILTERS (OPTIONAL)** (USE TABLE BELOW FOR CONVERSIONS)

CHECK COLUMN IF OUT OF STATE ↓

1. Number of filters on hand from previous year.....
2. Number of used oil filters collected.....
3. Total number of used oil filters on hand at beginning of year.....
4. Disposition of used oil filters collected:
  - a. Transferred to another registered facility.....
  - b. Burned for energy recovery at a Waste-To-Energy facility.....
  - c. Transferred directly to a metal foundry for recycling.....
  - d. TOTAL.....
5. End of year, on had estimate (Difference between Lines 3 and Line 4d).....
6. Gallons of used oil collected as a result of filter processing.....
7. Gallons of used oil transferred to a used oil handler (transporter or processor).....
8. Volume of oily waste collected and managed as a result of filter processing.....
9. Description of oily waste management.....


**DIRECTIONS FOR SECTION C**

Conversion Table

One 55-gallon drum of <b>crushed</b> used oil filters = approximately <b>400</b> used oil filters
One 55 gallon drum of <b>uncrushed</b> used oil filters = approximately <b>250</b> used oil filters
One ton of drained used oil filters = approximately <b>2,350</b> used oil filters

1. Enter the number of Used Oil Filters on hand, from previous year's inventory.
2. Enter the number of Used Oil Filters collected.
3. Enter the sum of Line 1 + Line 2.
4. Enter the number of filters managed by your facility in blocks 4a-c. Enter the sum of 4a-c in block 4d .
5. Enter the number of filters on hand at your site as of December 31, last year.
6. Fill in the number of gallons of used oil collected by your filter operation.
7. Enter the number of gallons transferred to a used oil transporter or processor.
8. List the volume (gallons or cubic yards) of the oily wastes collected through your filter handling. Oily wastes are identified in Chapter 62-710.201(1) of the Florida Administrative Code and include bottom sludges, sorbents, wipes etc.
9. Describe how oily wastes were managed (sent to a WTE, hazardous waste facility, landfilled after appropriate testing, etc.).

Any questions concerning this form may be referred to the Used Oil Coordinator, MS 4555, Department of Environmental Protection on 2600 Blair Stone Road, Tallahassee, FL 32399-2400, Phone (850) 245-8754, email: [sebrina.bolton@dep.state.fl.us](mailto:sebrina.bolton@dep.state.fl.us), OR Phone (850) 245-8755, email: [richard.neves@dep.state.fl.us](mailto:richard.neves@dep.state.fl.us)

# FAX Cover Sheet

Fax # (850)-245-8811



Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

☐ Solid Waste Section

☒ Hazardous Waste Management

DATE: 2/27/08

TO: Amanda Lawson

Organization Water Recovery

FAX # 904-475-9409

Telephone # \_\_\_\_\_

FROM: Sebrena Belton

Telephone # 850-245-8754

Pages: 5 (including Fax Cover)

cc: \_\_\_\_\_

RE: Water Recovery, Inc.

☐ Urgent

☐ For Review

☐ Please Comment

☐ Please Reply

☐ Please Recycle

## COMMENTS:

Amanda please disregard the "ME #" written on the form, that's in our system.  
If you have further questions please give me a call.

Thank  
Sebrena

Please contact me if you have any trouble receiving this fax. Thank you.



TRANSMISSION VERIFICATION REPORT

TIME : 02/27/2008 15:35

DATE, TIME	02/27 15:33
FAX NO./NAME	619044759449
DURATION	00:01:57
PAGE(S)	05
RESULT	OK
MODE	STANDARD
	ECM

**RECEIVED**

MAY 14 1986

HAZARDOUS WASTE

---

**ENVIRONMENTAL TECHNOLOGY, INC.**

---

ENVIRONMENTAL TECHNOLOGY, INC.  
PETROLEUM & INDUSTRIAL WASTE SERVICES

Price Lists  
April 1986

## Table of Contents

	<u>Page</u>
Introduction to Environmental Technology, Inc.	1
Petroleum & Industrial Waste Services	2
Standard Price Lists & Selling Terms	3
Laboratory Services & Price List	5
Selling Terms	9
Procedures for Acceptance	10
Contingent Liability Statement	12
EPA Rulings	14
Manifest	20

## INTRODUCTION TO ENVIRONMENTAL TECHNOLOGY, INC.

Environmental Technology, Inc. (E.T., Inc.) is an industrial services company with a broad range of technical and cleaning related skills and capabilities. With offices and treatment centers in Jacksonville and Miami, Florida and in Richmond, Virginia we can efficiently service the Southeastern United States.

Enclosed is information on our range of technical services, our revised standard price list, and our new procedures for acceptance and manifesting of used oils, including residues and mixtures containing oil.

The new EPA "final rule," Vol. 50, No. 230, published in the Federal Register on November 9, 1985, stringently regulates used oil burned for energy recovery. The final rule effects certain prohibitions on the marketing and burning of used oil and therefore, affects the distribution in commerce of used oils (including residues and mixtures containing oil) by transporters, recyclers, marketers, and burners. The final rule establishes used oil specifications, analysis and recordkeeping requirements, manifesting and invoicing requirements, certification notices to suppliers and notifications to the EPA. All of the provisions of the final rule became effective on March 31, 1986. A copy of most of the final rule and excerpts from two new proposed rules are enclosed for your information.

Environmental Technology, Inc. has committed itself to full and strict compliance with the new regulations and all other applicable regulatory requirements relating to our activities. To best facilitate compliance and help streamline work flow, we are adopting a new waste stream acceptance and manifesting program. To protect against contaminating our process by the potential inadvertant introduction of hazardous waste, we will from this point forward prequalify and categorize each waste stream for our recycling process and the acceptability of waste streams from a regulatory point of view. Our prequalification and acceptance procedures are effective immediately. Our new manifesting procedure became effective April 15, 1986.

We believe the enclosed materials will adequately explain our new programs, however, if you have any questions about these new procedures or about the new used oil rules please call Phil Sparta at 1-800-325-6631-Tone-387 or 904-355-2157 or Scott Schneider at 804-231-2232. If you would like a single copy of the final rule, call the RCRA Hotline, 1-800-424-9346 or 202-382-3000.

## PETROLEUM & INDUSTRIAL WASTE SERVICE

Environmental Technology, Inc. (E.T., Inc.) is a comprehensive industrial and petroleum waste engineering and service firm. Some of our service offerings are:

TANK & LAGOON CLEANING  
BULK PETROLEUM TANK CLEANING  
WASTE SITE & SURFACE IMPOUNDMENT REMEDIATION AND/OR CLOSURE  
ENVIRONMENTAL ASSESSMENT  
GROUNDWATER MONITORING & REMEDIATION  
BARGE AND VESSEL TANK CLEANING & DEGASSING  
RCRA ENGINEERING AND COMPLIANCE  
HAZARDOUS WASTE BROKERS

E.T., Inc. has accumulated 12 years of valuable experience in industrial waste service. Over the years we have developed a thorough breadth of specialized knowledge and technology in addition to assembling a large inventory of sophisticated waste handling equipment. Among some of the more notable companies we have successfully completed waste projects for and that we offer as references are:

E.I. DuPont & Co.  
Parkersburg, West Virginia  
W.O. Lay, Plant Manager

FMC Corporation  
Fredericksburg, Virginia  
J. Petit, Plant Manager

Exxon Co.  
Roanoke, Virginia  
Price Wingate, General Mgr.

Crown Central Petroleum  
Baltimore, Maryland  
Vince Brulinski  
Director of Operations

Keller Industries  
Miami, Florida  
Jack Luckhardt, Manager  
Corporate Safety & Health

Belcher Oil Co.  
Miami, Florida  
Tommy Green, Engineer

STANDARD PRICE LIST AND SELLING TERMS  
Effective April 15, 1986

I. Legal disposition of used oils, including residues and mixtures containing oil.

Oily waste water (waste water containing trace amounts of oil) . . . . .	\$0.15 per gallon
Water soluble industrial cooling, cleaning, and/or lubricating waste oil streams (emulsifying oils) . . . . .	0.27 per gallon
Off-specification waste oil (outlined in acceptance and manifesting procedures section) . . . . .	0.27 per gallon
In-specification waste oily material (outlined in acceptance and manifesting procedures section) . . . . .	negotiated on a per shipment basis
Sludge non-hazardous . . . . .	1.85 per gallon

II. Transport and legal disposition of drummed organic and nonorganic sludges that are not listed hazardous waste and do not exhibit a characteristic of hazardous waste.

A. \$82.00 per 55 gallon drum plus \$2.50 per loaded mile transport fee.

III. Transport and legal disposition of sludges and liquids that are listed hazardous wastes or exhibit any characteristics of hazardous wastes.

A. Contact E.T., Inc. for assistance, approvals, and pricing.

IV. Demurrage. After one hour beyond scheduled truck loading time. \$60.00 per hour.

V. Immediate acceptance of a waste stream. Where E.T., Inc. agrees to the immediate acceptance of a waste stream material without prior sample analysis, there will be a surcharge of 30% with a minimum of \$400.00.

VI. Pumping charges (if necessary) - \$85.00/hour.

VII. All prices are F.O.B. 1) Environmental Technology, Inc. (E.T., Inc.), Jacksonville, Florida. 2) E.T., Inc., Miami, Florida. 3) E.T., Inc., Richmond, Virginia.

Environmental Technology, Inc. transportation prices are:

\$2.50 per loaded mile with a minimum  
transportation charge of \$250.00 per load



LABORATORY SERVICES AND PRICE LIST

A. Analysis of used oil, including residues and mixtures containing oil, for the purpose of determining its specification. Costs: \$150.00 each.

B. Other available analysis:

DESCRIPTION	PRICE EACH
(1) Physical Properties	
Color .....	\$ 7.50
Conductance .....	\$ 7.50
Total Hardness .....	\$ 12.00
Calcium Hardness .....	\$ 12.00
Odor .....	\$ 12.00
pH .....	\$ 6.00
Temperature .....	\$ 6.00
Turbidity .....	\$ 8.00
Dissolved Oxygen .....	\$ 8.00
Corrositivity .....	\$ 40.00
(2) Residue	
Total Solids .....	\$ 15.00
Total Dissolved Solids .....	\$ 15.00
Total Suspended Solids .....	\$ 15.00
Settleable Solids .....	\$ 15.00
Total Volatile Solids .....	\$ 25.00
Volatile Suspended Solids .....	\$ 25.00
(3) Nutrients	
Ammonia, as H .....	\$ 15.00
Unionized Ammonia .....	\$ 18.00
Total Kjeldahl Nitrogen .....	\$ 20.00
Organic Nitrogen .....	\$ 20.00
Nitrate-Nitrate, as N .....	\$ 16.00
Nitrate, as N .....	\$ 16.00
Nitrite, as N .....	\$ 16.00
Total Phosphorus .....	\$ 20.00
Ortho Phosphorus .....	\$ 16.00
Hydrolyzable Phosphorus .....	\$ 20.00
(4) Metals	
Aluminum .....	\$ 20.00
Antimony .....	\$ 20.00
Arsenic .....	\$ 20.00
Barium .....	\$ 20.00
Beryllium .....	\$ 20.00
Boron .....	\$ 30.00
Cadmium .....	\$ 20.00

Calcium .....	\$	20.00
Chromium .....	\$	20.00
Cobalt .....	\$	20.00
Copper .....	\$	20.00
Gold .....	\$	20.00
Iridium .....	\$	20.00
Iron .....	\$	20.00
Lead .....	\$	20.00
Lithium .....	\$	20.00
Magnesium .....	\$	20.00
Manganese .....	\$	20.00
Mercury .....	\$	30.00
Molybdenum .....	\$	20.00
Nickel .....	\$	20.00
Osmium .....	\$	25.00
Palladium .....	\$	20.00
Platinum .....	\$	20.00
Potassium .....	\$	20.00
Rhenium .....	\$	20.00
Rhodium .....	\$	20.00
Ruthenium .....	\$	20.00
Selenium .....	\$	20.00
Silicon .....	\$	20.00
Silver .....	\$	20.00
Sodium .....	\$	20.00
Strontium .....	\$	20.00
Thallium .....	\$	20.00
Tin .....	\$	25.00
Titanium .....	\$	20.00
Vanadium .....	\$	20.00
Zinc .....	\$	20.00
(5) Demands		
Biochemical Oxygen Demand .....	\$	25.00
Chemical Oxygen Demand .....	\$	25.00
Chlorine Demand .....	\$	40.00
(6) Organics		
Oil & Grease (Gravimetric) .....	\$	25.00
Oil & Grease (IR) .....	\$	60.00
Total Organic Carbon .....	\$	35.00
Total Recoverable Petroleum Hydrocarbons ....	\$	50.00
Total Phenolics (4AAP) .....	\$	35.00
Methylene Blue Active Substances .....	\$	25.00
NTA .....	\$	50.00
EPA Method 601 .....	\$	120.00
EPA Method 602 .....	\$	120.00
EPA Method 603 .....	\$	120.00
EPA Method 604 .....	\$	150.00
EPA Method 605 .....	\$	120.00
EPA Method 606 .....	\$	120.00

EPA Method 607 .....	\$ 120.00
EPA Method 608 .....	\$ 120.00
EPA Method 609 .....	\$ 120.00
EPA Method 610 .....	\$ 120.00
EPA Method 611 .....	\$ 120.00
EPA Method 612 .....	\$ 120.00
EPA Method 613 .....	\$ 300.00
EPA Method 624 .....	\$ 350.00
EPA Method 625 (Acid Extractables) .....	\$ 400.00
(Base Neutral Extractables).....	\$ 400.00
(Acid & Base Neutral Extractables)....	\$ 700.00
Trihalomethanes (THM) .....	\$ 75.00
1/2-Dibromoethane (EDB) .....	\$ 75.00
Aldicarb (Temik) .....	\$ 120.00
Organophosphorus Pesticides .....	\$ 120.00
PCB (oil) .....	\$ 100.00
PCB (water) .....	\$ 120.00
Organochlorine Pesticides .....	\$ 120.00
Penoxycid Herbicides .....	\$ 120.00
(7) Primary Metals .....	\$ 125.00
(8) DER List	
8 VOC's .....	\$ 350.00
118 SOC's .....	\$ 1,100.00
(9) Priority Pollutants	
129 Organics .....	\$ 975.00
129 Organics & 13 Metals & Phenols & Cyanide.	\$ 1,200.00
(10) Hazardous Waste	
Flash Point .....	\$ 25.00
Corrositivity .....	\$ 25.00
Reactivity .....	\$ 25.00
Specific Gravity .....	\$ 20.00
EP Toxicity Set Up .....	\$ 50.00
EP Toxicity Metals .....	\$ 175.00
EP Toxicity Organics .....	\$ 200.00
EP Toxicity Metals & Organics .....	\$ 325.00
Asbestos .....	\$ 50.00
IR Scan .....	\$ 85.00
GC Scan .....	\$ 120.00
% Sulfur .....	\$ 40.00
BTU .....	\$ 40.00
% Moisture .....	\$ 40.00
Total Organic Halogens .....	\$ 65.00
Profile Sheet .....	\$550.00-800.00
Sample Prep (soil digestion) .....	\$ 25.00-100.00
(11) Petroleum	
Flash Point .....	\$ 25.00
Water and Sediment .....	\$ 25.00

Sediment by Extraction .....	\$ 25.00
Water .....	\$ 40.00
API Gravity .....	\$ 20.00
Viscosity .....	\$ 25.00
Ash .....	\$ 15.00
BTU .....	\$ 40.00
Sulfur .....	\$ 40.00
Pour & Cloud Point .....	\$ 25.00
Carbon Residue .....	\$ 35.00
Distillation Temperature Curve .....	\$ 35.00
Copper Corrosion .....	\$ 25.00
Cetane # .....	\$ 40.00
PCB .....	\$ 100.00
Acidity and/or Neutralization # .....	\$ 18.00

LABORATORY SERVICES SELLING TERMS

A. Payment terms are two percent 10 days, net 30 days. Accounts past due shall be liable for interest charges at the rate of 1.5% per month on the unpaid balance.

B. E.T., Inc. Standard Prices and Selling Terms shall be held subordinate to the provisions of existing and future E.T., Inc. contractual agreements.

PROCEDURES FOR ACCEPTANCE AND MANIFESTING  
OF USED OILS, INCLUDING RESIDUES AND MIXTURES  
CONTAINING OIL

(Acceptance procedures are effective with this  
notice, manifesting procedures are effective on  
April 15, 1986.)

I. Qualifications and acceptance of waste streams. Prior to the approval for acceptance of new waste streams at E.T., Inc., each waste stream shall be analyzed for EPA classification as below.

E.T. INC. "OFF-SPECIFICATION" WASTE MATERIAL

<u>Constituent/Property</u>	<u>Limits</u>
Arsenic	> 5 ppm max.
Cadmium	> 2 ppm max.
Chromium	>10 ppm max.
Lead	>100 ppm max.
Flash Point	<100 F min.
Total Halogens	>1000 ppm
PCBs	>10 ppm max.
% Moisture	> 5 %

E.T. INC. "IN-SPECIFICATION" WASTE MATERIAL

In-specification waste oils are all those materials containing constituents within above "off-specification" limits and which do not contain categorical or characteristic hazardous wastes.

Analysis shall either be performed by E.T., Inc. or any qualified independent laboratory. Where analyses are performed by others, the original analyses reports must be submitted to E.T., Inc. for approval. Where E.T., Inc. performs analyses of the representative samples supplied by our customers, allow twelve working days for approval.

## II. Procedures

### A. To place an order for the prequalification of waste streams:

1. Telephone E.T., Inc. to obtain a Work Order Number (WO#).
2. Write the WO # on the sample container (at least 1/2 gallon size) along with a description of the material, i.e. bilge slops, rain water runoff, diesel tank bottoms, etc.; and the name of the generator. Or, if you have an analyses report that corresponds to the E.T., Inc. analysis requirements and it is less than 30 days old, write the WO # on the analysis report and send it along with a one quart sample.
3. Deliver or mail the waste stream sample to E.T., Inc. 1819 Albert St., Jacksonville, Florida 32202 or E.T., Inc., 2nd & Maury St., Richmond, Virginia 23224.

### B. To place an order for the pickup or delivery by others of an E.T., Inc. approved waste stream:

1. Telephone E.T., Inc. to obtain a WO # and a schedule for pickup or reception at our facility.
2. If transport of the waste stream will be by a carrier other than E.T., Inc., write the WO # in the E.T., Inc. manifest document number space on the upper right hand corner of the manifest from and completely fill in the information indicated in Blocks A, B, & C of the manifest. (The generator or his agent must sign in Block F of the manifest prior to departure of a shipment. The pink copy of the manifest may be retained by the generator or his agent. The original white copy of the manifest will be fully documented by E.T., Inc. and submitted to the customer at the billing address, indicated on the manifest.) Blank E.T., Inc. manifest forms may be obtained by request from E.T., Inc. (see attached Environmental Technology Transportation and Receiving manifest.)

### C. To place an order for the immediate acceptance and pickup or delivery of an unapproved waste stream.

1. Telephone E.T., Inc. to obtain a WO #, a pickup or receiving schedule and a copy of our Contingent Liability Statement (CLS). (E.T., Inc. will not load nor accept at its facility any waste stream under an immediate acceptance order until it first receives at its offices a properly executed and notarized CLS.)

CONTINGENT LIABILITY STATEMENT

In consideration of Environmental Technology, Inc. (E.T., Inc.) granting immediate acceptance at its mobile and/or fixed facilities of the waste stream material identified as \_\_\_\_\_, having been generated by \_\_\_\_\_ and assigned the E.T., Inc. Work Order Number \_\_\_\_\_, the undersigned as owner(s), principal(s) and/or shareholder(s) of \_\_\_\_\_, a corporation organized and existing under the laws of the state of \_\_\_\_\_, having an office at \_\_\_\_\_, hereby jointly and severally (i) certify that the waste stream identified herein is a residue or mixture containing oil and is not listed by the regulations under the Resource Conservation and Recovery Act (RCRA) as hazardous waste and does not exhibit a characteristic of hazardous waste so defined by RCRA, low flash point excepted, and (ii), guarantee to indemnify, save harmless and defend E.T., Inc. from and against any and all liabilities, claims, penalties, forfeitures, suits, and the costs and expenses incident thereto, (including costs of defense, settlement, and recoverable attorney's fees), which it may hereafter incur, become responsible for or pay out as a result of death or bodily injuries to any person, destruction or damage to any property, contamination of or adverse effects on the environment, or any violation of governmental laws, regulations or orders, caused in whole or in part, by a manifestation that the waste stream identified herein is a hazardous waste or exhibits a characteristic of hazardous waste, except as provided for herein.

By the signature(s) of the undersigned, this certification and guarantee is caused to be effected this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_.

\_\_\_\_\_  
\* NOTARY PUBLIC  
(NOTARY SEAL)

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
TITLE

My Commission Expires:



\_\_\_\_\_  
\* NOTARY PUBLIC  
(NOTARY SEAL)

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
TITLE

My Commission Expires:

\_\_\_\_\_  
\* NOTARY PUBLIC  
(NOTARY SEAL)

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
TITLE

My Commission Expires:

E.P.A. RULINGS (FINAL & PROPOSED)

**ENVIRONMENTAL PROTECTION AGENCY**

40 CFR Parts 261, 264, 265, 266, and 271

[SWH-FRL 2910-1]

**Hazardous Waste Management System; Burning of Waste Fuel and Used Oil Fuel in Boilers and Industrial Furnaces****AGENCY:** Environmental Protection Agency.**ACTION:** Final rule.

**SUMMARY:** On January 11, 1985, EPA proposed under Subtitle C of the Resource Conservation and Recovery Act (RCRA) to begin regulation of hazardous waste and used oil burned for energy recovery in boilers and industrial furnaces. The proposal provided administrative controls for those persons who market and burn hazardous waste and used oil fuels. Most of the requirements are being finalized as proposed, but some modifications have been made in response to comment.

The final rule prohibits the burning in nonindustrial boilers of both hazardous waste fuel and of used oil that does not meet specification levels for certain hazardous contaminants and flash point. It also provides administrative controls to keep track of marketing and burning activities. These controls include notification to EPA of waste-as-fuel activities, use of a manifest, or, for used oil, an invoice system for shipments, and recordkeeping. Hazardous waste fuels, including processed or blended hazardous waste fuels, are also subject to storage requirements.

**DATES: Effective Dates:** The effective dates for the regulations are:

1. *Prohibitions.* The prohibitions on marketing and burning of hazardous waste fuel and off-specification used oil fuel in nonindustrial boilers in §§ 266.31(a) (2) and (b), and 266.41 (a) (2) and (b) are effective on December 9, 1985. To implement and enforce the prohibitions, the following provisions are also effective on December 9, 1985:

(a) The used oil fuel specification in § 266.40(e), except for the specification level for lead which is effective May 29, 1986.

(b) The rebuttable presumption of mixing hazardous halogenated wastes with used oil in § 266.40(c); and

(c) The used oil analysis requirements and attendant record keeping requirements in §§ 266.43(b) (1) and (6), and 266.44 (d) and (e);

2. *Storage Controls.* The storage controls for hazardous waste fuels in

§§ 266.34(c) and 266.35(c) are effective on May 29 1986; and

3. *All Other Provisions.* The effective date for all other provisions of these regulations (e.g., manifests and, for off-specification used oil fuel, invoice requirements for shipments; certification notices to suppliers; and recordkeeping of manifests or invoices, and certification notices) is March 31, 1986. At that time, the manifest or invoice requirements supersede and apply in lieu of the warning label requirements of RCRA section 3004(r).

**Compliance Dates:** The compliance dates for the regulation are:

1. *Notification.* Marketers and burners of hazardous waste fuel and off-specification used oil fuel are required to notify EPA regarding their waste-as-fuel activities under §§ 266.34(b), 266.35(b), 266.43(b)(3), and 266.44(b). These persons must so notify either EPA or States authorized by EPA to operate the hazardous waste program by January 29, 1986; and

2. *Submission of Part A Permit Applications.* All existing marketers and burners (see provisions in 40 CFR 270.2 and 270.70(a)) who store hazardous waste fuels and who are not currently operating pursuant to interim status (section 3005(e) of RCRA), must file a notification of their storage activities with EPA by January 29, 1986 and submit a Part A permit application to EPA by May 29, 1986.

In addition, marketers and burners already operating pursuant to interim status, but who operate existing hazardous waste fuel storage facilities newly subject to regulation by today's rule, must file a notification of their storage activities with EPA by January 29, 1986 and submit an amended Part A permit application to EPA (with an informational copy to the authorized State) by May 29, 1986.

Explanation for these effective dates and compliance dates is provided in Part Five, section III of this preamble.

**ADDRESSES:** The official record for this rulemaking is in Room S-212, U.S. Environmental Protection Agency, 401 M St., SW., Washington, DC 20460. The record may be viewed from 9:00 a.m. to 4:00 p.m., Monday through Friday, excluding holidays.

**FOR FURTHER INFORMATION CONTACT:** RCRA Hotline, toll free, at (800) 424-9346 or (202) 382-3000. For Technical information, contact Robert Holloway, Waste Combustion Program, Waste Management and Economics Division, Office of Solid Waste, WH-565A, U.S. Environmental Protection Agency, 401 M St., SW., Washington, DC 20460. Telephone: (202) 382-7917. Single copies

of the final rule can be obtained by calling the RCRA Hotline number above.

**SUPPLEMENTARY INFORMATION:****Preamble Outline****PART ONE: BACKGROUND****I. Legal Authority****II. Overview of the Final Rule****III. Nonregulatory Alternatives****PART TWO: MATERIALS THAT ARE REGULATED****I. Overview****II. Determining When a Waste is Burned for Energy Recovery****III. Hazardous Waste Subject to Regulation****A. Definition of Hazardous Waste Fuel****B. Consideration of Exemption for Ignitable-Only Hazardous Waste****C. Regulation of Products Derived from Petroleum Refinery Wastes**

1. Petroleum Refineries that Reintroduce Hazardous Wastes from Petroleum Refining, Production, and Transportation to the Refining Process

2. Oil Reclaimed from Petroleum Refining Hazardous Wastes that is Returned to the Refining Process

3. Statutory, Conditioned Exemption of Coke Derived from Indigenous Petroleum Refinery Wastes

D. Exemption of Coke and Coal Tar Produced from Coal Tar Decanter Sludge by the Iron and Steel Industry

E. Status of Gas Recovered from Landfills

F. Request for Exclusion of Cadence Product 312

**IV. Used Oil Subject to Regulation****A. Definition of Used Oil Fuel****B. Distinguishing Between Used Oil and Hazardous Waste**

1. Used Oil Containing Halogenated Wastes

2. Used Oil Generated by Small Quantity Generators

3. Used Oil That Exhibits a Characteristic of Hazardous Waste

**C. The Specification for Used Oil Burned in Nonindustrial Boilers**

1. Comments on EPA's Risk Assessment

2. Specification Parameters

3. Specification Levels

**D. Comments on Allowing Blending to Meet the Specification****E. Consideration of Total Ban on Burning Used Oil in Nonindustrial Boilers****F. Analytical Testing to Demonstrate Compliance with Specification Levels****IV. Regulation of Combustion Residuals****V. Consideration of Special Requirements for De Minimis Quantities Burned On-Site****PART THREE: COMBUSTION DEVICES THAT ARE REGULATED****I. Overview****II. Regulation of Boilers****A. Basis for Regulating Boilers by Boiler Use**

1. Conditional Exemption of Nonindustrial Boilers Burning Hazardous Waste Fuel

2. Consideration of Other Criteria for Identifying Boilers Subject to the Prohibitions

**B. Definition of Industrial Boiler****C. Definition of Utility Boiler****D. Nonindustrial Boiler**

were approved by OMB under control number 2050-0047. The recordkeeping requirements contained in paragraph (f) of this section were approved by OMB under control number 2050-0047.]

**§ 266.35 Standards applicable to burners of hazardous waste fuel.**

Owners and operators of industrial furnaces and boilers identified in § 266.31(b) that burn hazardous fuel are "burners" and are subject to the following requirements:

(a) *Prohibitions.* The prohibitions under § 266.31(b);

(b) *Notification.* Notification requirements under section 3010 of RCRA for hazardous waste fuel activities. Even if a burner has previously notified EPA of his hazardous waste management activities and obtained a U.S. EPA Identification Number, he must renotify to identify his hazardous waste fuel activities.

(c) *Storage.* (1) For short term accumulation by generators who burn their hazardous waste fuel on site, the applicable provisions of § 262.34 of this chapter;

(2) For existing storage facilities, the applicable provisions of Subparts A through L of Part 265, and Parts 270 and 124 of this chapter; and

(3) For new storage facilities, the applicable provisions of Subparts A through L of Part A 264, and Parts 270 and 124 of this chapter;

(d) *Required notices.* Before a burner accepts the first shipment of hazardous waste fuel from a marketer, he must provide the marketer a one-time written and signed notice certifying that:

(1) He has notified EPA under section 3010 of RCRA and identified his waste-as-fuel activities; and

(2) He will burn the fuel only in a boiler or furnace identified in § 266.31(b).

(e) *Recordkeeping.* In addition to the applicable recordkeeping requirements of Parts 264 and 265 of this chapter, a burner must keep a copy of each certification notice that he sends to a marketer for three years from the date he last receives hazardous waste fuel from that marketer.

(The notification requirements contained in paragraph (b) of this section were approved by OMB under control number 2050-0028. The storage requirements contained in paragraph (c) of this section were approved by OMB under control number 2050-0009. The certification requirements contained in paragraph (d) of this section were approved by OMB under control number 2050-0047. The recordkeeping requirements contained in paragraph (e) of this section were approved by OMB under control number 2050-0047.)

12. Subpart E is added as follows:

**Subpart E—Used Oil Burned for Energy Recovery**

Sec.

266.40 Applicability.

266.41 Prohibitions.

266.42 Standards applicable to generators of used oil burned for energy recovery.

266.43 Standards applicable to marketers of used oil burned for energy recovery.

266.44 Standards applicable to burners of used oil burned for energy recovery.

**Subpart E—Used Oil Burned for Energy Recovery**

**§ 266.40 Applicability.**

(a) The regulations of this subpart apply to used oil that is burned for energy recovery in any boiler or industrial furnace that is not regulated under Subpart O of Part 264 or Part 265 of this chapter, except as provided by paragraphs (c) and (e) of this section. Such used oil is termed "used oil fuel". Used oil fuel includes any fuel produced from used oil by processing, blending, or other treatment.

(b) "Used oil" means any oil that has been refined from crude oil, used, and, as a result of such use, is contaminated by physical or chemical impurities.

(c) Except as provided by paragraph (d) of this section, used oil that is mixed with hazardous waste and burned for energy recovery is subject to regulation as hazardous waste fuel under Subpart D of Part 266. Used oil containing more than 1000 ppm of total halogens is presumed to be a hazardous waste because it has been mixed with halogenated hazardous waste listed in Subpart D of Part 261 of this chapter. Persons may rebut this presumption by demonstrating that the used oil does not contain hazardous waste (for example, by showing that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix VIII of Part 261 of this chapter).

(d) Used oil burned for energy recovery is subject to regulation under this subpart rather than as hazardous waste fuel under Subpart D of this part if it is a hazardous waste solely because it:

(1) Exhibits a characteristic of hazardous waste identified in Subpart C of Part 261 of this chapter, provided that it is not mixed with a hazardous waste; or

(2) Contains hazardous waste generated only by a person subject to the special requirements for small quantity generators under § 261.5 of this chapter.

(e) Except as provided by paragraph (c) of this section, used oil burned for energy recovery, and any fuel produced from used oil by processing, blending, or

other treatment, is subject to regulation under this subpart unless it is shown not to exceed any of the allowable levels of the constituents and properties in the specification shown in the following table. Used oil fuel that meets the specification is subject only to the analysis and recordkeeping requirements under §§ 266.43(b) (1) and (6). Used oil fuel that exceeds any specification level is termed "off-specification used oil fuel".

**USED OIL EXCEEDING ANY SPECIFICATION LEVEL IS SUBJECT TO THIS SUBPART WHEN BURNED FOR ENERGY RECOVERY \***

Constituent/property	Allowable level
Arsenic.....	5 ppm maximum.
Cadmium.....	2 ppm maximum.
Chromium.....	10 ppm maximum.
Lead.....	100 ppm maximum.
Flash Point.....	100 °F minimum.
Total Halogens.....	4,000 ppm maximum.*

\* The specification does not apply to used oil fuel mixed with a hazardous waste other than small quantity generator hazardous waste.

\* Used oil containing more than 1,000 ppm total halogens is presumed to be a hazardous waste under the rebuttable presumption provided under § 266.40(c). Such used oil is subject to Subpart D of this part rather than this subpart when burned for energy recovery unless the presumption of mixing can be successfully rebutted.

**§ 266.41 Prohibitions.**

(a) A person may market off-specification used oil for energy recovery only:

(1) To burners or other marketers who have notified EPA of their used oil management activities stating the location and general description of such activities, and who have an EPA identification number; and

(2) To burners who burn the used oil in an industrial furnace or boiler identified in paragraph (b) of this section.

(b) Off-specification used oil may be burned for energy recovery in only the following devices:

(1) Industrial furnaces identified in § 260.10 of this chapter; or

(2) Boilers, as defined in § 260.10 of this chapter, that are identified as follows:

(i) Industrial boilers located on the site of a facility engaged in a manufacturing process where substances are transformed into new products, including the component parts of products, by mechanical or chemical processes;

(ii) Utility boilers used to produce electric power, steam, or heated or cooled air or other gases or fluids for sale; or

(iii) Used oil-fired space heaters provided that:

(A) The heater burns only used oil that the owner or operator generates or used oil received from do-it-yourself oil

changers who generate used oil as household waste:

(B) The heater is designed to have a maximum capacity of not more than 0.5 million Btu per hour; and

(C) The combustion gases from the heater are vented to the ambient air.

**§ 266.42 Standards applicable to generators of used oil burned for energy recovery.**

(a) Except as provided in paragraphs (b) and (c) of this section, generators of used oil are not subject to this subpart.

(b) Generators who market used oil directly to a burner are subject to § 266.43.

(c) Generators who burn used oil are subject to § 266.44.

**§ 266.43 Standards applicable to marketers of used oil burned for energy recovery.**

(a) Persons who market used oil fuel are termed "marketers". However, the following persons are not marketers subject to this Subpart:

(1) Used oil generators, and collectors who transport used oil received only from generators, unless the generator or collector markets the used oil directly to a person who burns it for energy recovery. However, persons who burn some used oil fuel for purposes of processing or other treatment to produce used oil fuel for marketing are considered to be burning incidentally to processing. Thus, generators and collectors who market to such incidental burners are not marketers subject to this subpart;

(2) Persons who market only used oil fuel that meets the specification under § 266.40(e) and who are not the first person to claim the oil meets the specification (i.e., marketers who do not receive used oil from generators or initial transporters and marketers who neither receive nor market off-specification used oil fuel).

(b) Marketers are subject to the following requirements:

(1) *Analysis of used oil fuel.* Used oil fuel is subject to regulation under this subpart unless the marketer obtains analyses or other information documenting that the used oil fuel meets the specification provided under § 266.40(e).

(2) *Prohibitions.* The prohibitions under § 266.41(a);

(3) *Notification.* Notification to EPA stating the location and general description of used oil management activities. Even if a marketer has previously notified EPA of his hazardous waste management activities under section 3010 of RCRA and obtained a U.S. EPA Identification

Number, he must renotify to identify his used oil management activities.

(4) *Invoice system.* When a marketer initiates a shipment of off-specification used oil, he must prepare and send the receiving facility an invoice containing the following information:

(i) An invoice number;

(ii) His own EPA identification number and the EPA identification number of the receiving facility;

(iii) The names and addresses of the shipping and receiving facilities;

(iv) The quantity of off-specification used oil to be delivered;

(v) The date(s) of shipment or delivery; and

(vi) The following statement: "This used oil is subject to EPA regulation under 40 CFR Part 266";

*Note.*—Used oil that meets the definition of combustible liquid (flash point below 200 °F but at or greater than 100 °F) or flammable liquid (flash point below 100 °F) is subject to Department of Transportation Hazardous Materials Regulations at 49 CFR Parts 100–177.

(5) *Required notices.* (i) Before a marketer initiates the first shipment of off-specification used oil to a burner or other marketer, he must obtain a one-time written and signed notice from the burner or marketer certifying that:

(A) The burner or marketer has notified EPA stating the location and general description of his used oil management activities; and

(B) If the recipient is a burner, the burner will burn the off-specification used oil only in an industrial furnace or boiler identified in § 266.41(b); and

(ii) Before a marketer accepts the first shipment of off-specification used oil from another marketer subject to the requirements of this section, he must provide the marketer with a one-time written and signed notice certifying that he has notified EPA of his used oil management activities; and

(6) *Recordkeeping.*—(i) *Used Oil Fuel That Meets the Specification.* A marketer who first claims under paragraph (b)(1) of this section that used oil fuel meets the specification must keep copies of analysis (or other information used to make the determination) of used oil for three years. Such marketers must also record in an operating log and keep for three years the following information on each shipment of used oil fuel that meets the specification. Such used oil fuel is not subject to further regulation, unless it is subsequently mixed with hazardous waste or unless it is mixed with used oil so that it no longer meets the specification.

(A) The name and address of the facility receiving the shipment;

(B) The quantity of used oil fuel delivered;

(C) The date of shipment or delivery; and

(D) A cross-reference to the record of used oil analysis (or other information used to make the determination that the oil meets the specification) required under paragraph (b)(6)(i) of this section.

(ii) *Off-Specification Used Oil Fuel.* A marketer who receives or initiates an invoice under the requirements of this section must keep a copy of each invoice for three years from the date the invoice is received or prepared. In addition, a marketer must keep a copy of each certification notice that he receives or sends for three years from the date he last engages in an off-specification used oil fuel marketing transaction with the person who sends or receives the certification notice.

(The analysis requirements contained in paragraph (b)(1) of this section were approved by OMB under control number 2050–0047. The notification requirements contained in paragraph (b)(3) of this section were approved by OMB under control number 2050–0028. The invoice requirements contained in paragraph (b)(4) of this section were approved by OMB under control number 2050–0047. The certification requirements contained in paragraph (b)(5) of this section were approved by OMB under control number 2050–0047. The recordkeeping requirements contained in paragraph (b)(6) of this section were approved by OMB under control number 2050–0047.)

**§ 266.44 Standards applicable to burners of used oil burned for energy recovery.**

Owners and operators of facilities that burn used oil fuel are "burners" and are subject to the following requirements:

(a) *Prohibition.* The prohibition under § 266.41(b);

(b) *Notification.* Burners of off-specification used oil fuel must notify EPA stating the location and general description of used oil management activities, except that owners and operators of used oil-fired space heaters that burn used oil fuel under the provisions of § 266.41(b)(2) are exempt from these notification requirements. Even if a burner has previously notified EPA of his hazardous waste management activities under Section 3010 of RCRA and obtained an identification number, he must renotify to identify his used oil management activities.

(c) *Required notices.* Before a burner accepts the first shipment of off-specification used oil fuel from a marketer, he must provide the marketer with a one-time written and signed notice certifying that:

(1) He has notified EPA stating the location and general description of his used oil management activities; and

(2) He will burn the used oil only in an industrial furnace or boiler identified in § 266.41(b); and

(d) *Used oil fuel analysis.* (1) Used oil fuel burned by the generator is subject to regulation under this subpart unless the burner obtains analysis (or other information) documenting that the used oil meets the specification provided under § 266.40(e).

(2) Burners who treat off-specification used oil fuel by processing, blending, or other treatment to meet the specification provided under § 266.40(e) must obtain analyses (or other information) documenting that the used oil meets the specification.

(e) *Recordkeeping.* A burner who receives an invoice under the requirements of this section must keep a copy of each invoice for three years from the date the invoice is received. Burners must also keep for three years copies of analyses of used oil fuel as

may be required by paragraph (d) of this section. In addition, he must keep a copy of each certification notice that he sends to a marketer for three years from the date he last receives off-specification used oil from that marketer.

(The notification requirements contained in paragraph (b) of this section were approved by OMB under control number 2050-0028. The certification requirements contained in paragraph (c) of this section were approved by OMB under control number 2050-0047. The analysis requirements contained in paragraph (d) of this section were approved by OMB under control number 2050-0047. The recordkeeping requirements contained in paragraph (e) of this section were approved by OMB under control number 2050-0047.)

#### **PART 271—REQUIREMENTS FOR AUTHORIZATION OF STATE HAZARDOUS WASTE PROGRAMS**

12. The authority citation for Part 271 is revised to read as follows:

Authority: Secs. 1006, 2002(a), and 3006 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act

of 1976, as amended (42 U.S.C. 6905, 6912(a) and 6928).

13. Section 271.1(j) is amended by changing the table heading and by adding the following entry to Table 1 in chronological order by date of publication:

**TABLE 1.—REGULATIONS IMPLEMENTING THE HAZARDOUS AND SOLID WASTE AMENDMENTS OF 1984**

Date of publication in the FEDERAL REGISTER	Title of regulation
Nov. 29, 1985.....	Standards for the Management of Specific Wastes and Specific Types of Facilities

#### **Appendix—Form—Notification of Hazardous Waste Activity**

*EPA Form 8700-12 (Revised 11/85)*

(This form will not appear in the Code of Federal Regulations.)

BILLING CODE 6560-50-M

**Poor Original**

**ENVIRONMENTAL PROTECTION AGENCY**

**40 CFR PARTS 260, 261, 266, 270, and 271**

[SWH-FRL 2873-5]

**Hazardous Waste Management System; Recycled Used Oil Standards**

**AGENCY:** Environmental Protection Agency.

**ACTION:** Proposed rule

**SUMMARY:** Section 3014 of RCRA, as amended, requires EPA to establish standards for used oil that is recycled, or "recycled oil." Pursuant to this directive, EPA is today proposing standards for generators and transporters of recycled oil, and owners and operators of used oil recycling facilities. The standards would include tracking requirements when used oil is shipped off-site for recycling, and facility management requirements when used oil is stored prior to recycling. Recycled oil used as fuel would be subject to certain regulations, except that fuel meeting a specification for toxic contaminants and flashpoint would be exempt from regulation. Uses of recycled oil that constitute disposal would be regulated as land disposal, but road oiling would be prohibited outright.

This proposal is closely related to the proposed listing of used oil as a hazardous waste, also in today's Federal Register. The rules proposed today for used oil that is recycled would only apply to used oil covered by the listing, (except that household generated used oil would also be regulated when aggregated or accumulated for recycling).

**DATES:** EPA will accept public comments on this proposal until January 28, 1986. Public hearings will be held to obtain public comments on this proposal and the proposal to list used oil as a hazardous waste (appearing elsewhere in this Federal Register) on January 8, 10, and 16 of 1986. The locations for the public hearings are provided below; for additional information on the public hearings, see Part Four, Section III of this preamble.

**ADDRESSES:** EPA will hold public hearings at the following locations:

- *January 8, 1986*—Holiday Inn, North Park Plaza, 10850 North Central Expressway, Dallas, Texas 75231 (Phone: 214/373-6000)
- *January 10, 1986*—Ramada Renaissance, 55 Cyril Magnin Street (One block north of 5th & Market), San Francisco, California 94102 (Phone: 415/392-8000)
- *January 16, 1986*—Department of Health and Human Services, North Auditorium (FCC

Street entrance), 330 Independence Ave., SW, Washington, DC 20201

Comments on this proposal should be mailed to the Docket Clerk (Docket No. 3014, Standards of Recycled Oil), Office of Solid Waste (WH-562), U.S. Environmental Protection Agency, 401 M Street, SW., Washington, DC 20460. Comments received by EPA may be inspected in Room S-212, U.S. EPA, 401 M Street, SW., Washington, DC, from 9:00 a.m. to 4:00 p.m. Monday through Friday, excluding holidays.

**FOR FURTHER INFORMATION CONTACT:** The RCRA Hotline, call toll free at (800) 424-9346 or at (202) 382-3000. For technical information, contact Michael Petruska, Environmental Protection Specialist, Waste Management and Economics Division, Office of Solid Waste, (WH-565A), U.S. Environmental Protection Agency, 401 M Street, SW., Washington, DC 20460. Telephone: (202) 382-7917. Single copies of the proposal may be obtained by calling the RCRA Hotline at the number above.

**SUPPLEMENTARY INFORMATION**

**Overview**

This preamble discussion is organized into four major Parts. Part One summarizes the legal authority for today's proposal, explains how this proposal follows from previous EPA rulemakings, and includes a statement as to the general policy EPA has followed in developing today's proposal. Part Two goes through the proposed rules section-by-section. For each section, the provision is explained and the rationale for the provision is presented. Part Three summarizes the impacts of this proposal, if adopted as proposed today, on State hazardous waste programs, on the used oil recycling industry, on the economy in general, and on small businesses. Part Four includes a general request for public comment on this proposal, lists the titles and where applicable the NTIS number of the major background documents used by EPA in developing the proposal, and provides information on the upcoming public hearings.

**Note.**—This proposal is one of three regulatory actions being taken this month by EPA concerning used oil. In today's issue of the Federal Register, this proposal for recycled oil is accompanied by a separate proposal to list used oil as a hazardous waste. Further, EPA has promulgated in final form its "Phase I" rules for the burning and blending of used oil (and hazardous waste) fuels. [Proposed January 11, 1985 at 50 FR 1084.] At this writing, it appears likely that the final Phase I rule will appear in the same Federal Register as the proposals for recycled oil and for listing used oil as hazardous waste. For that reason, this preamble refers

to the final Phase I rule as having been "recently promulgated," but does not refer to Federal Register pages in the citations.

**Preamble Outline**

**PART ONE—INTRODUCTION AND BACKGROUND**

**I. Legal Authority**

- A. General
- B. Listing as hazardous waste
- C. Generation and transportation prior to recycling
- D. Facility standards and permitting for recyclers

**II. Preceding Rulemakings**

- A. December 18, 1978 proposal
- B. May 19, 1980 rules
- C. Final "solid waste" rule
- D. Burning and blending rules
- E. New tank storage requirements

**III. EPA's Proposed Policy for Regulating Used Oil that is Recycled**

**PART TWO—DETAILED DISCUSSION OF CONTROLS PROPOSED FOR USED OIL THAT IS RECYCLED**

**I. Applicability and Scope of Part 266, Subpart E**

- A. Definition of "recycled oil"
  - 1. Scope of activities
  - 2. Mixtures
- B. Recycled oil subject to Part 266, Subpart E
  - 1. General
  - 2. Household waste, when aggregated
  - 3. Oil recovered from waste water
- C. Conditional exemptions for certain recycled oils
  - 1. Specification fuel
  - 2. Asphalt paving material
- D. Overview of standards and "burden of proof" issues
- E. Authorization to manage recycled oil
- F. Definitions and general provisions

**II. Standards for Generators of Recycled Oil**

- A. Small quantity recycled oil generators
  - 1. Requirements
  - 2. The separate small quantity limit for recycled oil
  - 3. Selection of 1,000 kilograms as the limit
  - 4. Regulation when collected
- B. Large generators
  - 1. Applicability
  - 2. Identification numbers
  - 3. On-site management
  - 4. Shipments off-site
  - 5. Reports

**III. Standards for Transporters of Recycled Oil**

- A. Applicability
  - 1. General
  - 2. Mixture issues
  - 3. Storage facilities
- B. Identification numbers
- C. Discharges
- D. Manifested shipments
- E. Shipments without manifests
  - 1. Records of acceptance
  - 2. Delivery
  - 3. Records of delivery

**IV. Standards for Owners and Operators of Used Oil Recycling Facilities**

- A. Applicability and general approach to regulation
- B. Waste analysis requirements

constituent thereof that may cause an endangerment to public drinking water supplies; and

(2) Any information of a release or discharge of recycled oil or hazardous constituent thereof or of a fire or explosion from the facility, which could threaten the environment or human health outside the facility.

(B) The description of the occurrence and its cause must include:

(1) The name, address, and telephone number of the owner or operator;

(2) The name, address, and telephone number of the facility;

(3) The date, time, and type of incident;

(4) The name and quantity of material(s) involved;

(5) The extent of injuries, if any;

(6) An assessment of actual or potential hazards to human health or the environment outside the facility, if applicable; and

(7) Estimated quantity and disposition of recovered material, if any, resulting from the incident.

(C) A written submission must also be provided with in 5 days of the time the owner or operator becomes aware of the circumstances. The written submission must contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and times, and, if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The Director may waive the 5 day written notice requirement in favor on a written report within 15 days.

(xv) *Biennial report.* The owner or operator must prepare and submit a single copy of a biennial report to the Director by March 1 each even-numbered year. The report must cover activities of the previous year (odd-numbered year) and must be prepared in accordance with the requirements of § 264.75 of this chapter and submitted on EPA Form 8700-1 3B.

(xvi) *Other information.* When the owner or operator becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in any report to the Regional Administrator, he or she must promptly submit corrected information or additional facts.

(3) *Individual permits.* (i) The Director may require an owner or operator to apply for and (as a condition of continued operation) obtain an individual RCRA facility permit under this Part if he obtains information through site inspections or other means indicating any of the following conditions:

(A) The owner or operator has not met one of the requirements of paragraph (d)(2) of this section; or

Note.—The EPA Regional Administrator may, in addition to requiring an individual permit, take enforcement action under section 3008 of RCRA for a violation of § 270.60(d)(2) of this chapter.

(B) The facility, because of the type or quantities of recycled oil being managed, or the management methods in use, or the facility's location, or other relevant factors, could in the judgment of the Director, pose a substantial potential or present hazard to human health or the environment and that individual facility permitting under this Part is necessary to provide adequate protection; or

(C) There has been a release of recycled oil, hazardous waste, or a hazardous constituent from a solid waste management unit at the facility to the environment and in the judgment of the Director, the corrective action measures implemented by the owner or operator are inadequate to ensure protection of human health and the environment.

Note.—When an owner or operator is required to obtain an individual RCRA permit, he is subject to § 264.101 of this chapter pertaining to corrective action for releases from solid waste management units, as applicable.

(ii) Within 180 days of notification by EPA that an individual RCRA facility permit is required, the owner or operator must submit Part B of the RCRA permit application under Subpart B of this part. The owner or operator remains subject to paragraph (b)(2) of this section until final disposition is made concerning the individual facility permit.

(iii) If the Director denies the owner's or operator's application for a permit he is not eligible for the permit-by-rule under paragraph (d) of this section.

Note.—The owner or operator of a facility whose permit application is denied is not eligible for interim status under section 3005(e) of RCRA.

#### PART 271—REQUIREMENTS FOR AUTHORIZATION OF STATE HAZARDOUS WASTE PROGRAMS

13. The authority citation for Part 271 continues to read as follows:

Authority: Secs. 1006, 2002(a), and 3006 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976, as amended [42 U.S.C. 6905, 6912(a) and 6926].

14. In Part 271, § 271.1(j) is amended by adding the following entry to Table 1

in chronological order by date of publication:

TABLE 1.—REGULATIONS IMPLEMENTING THE HAZARDOUS AND SOLID WASTE AMENDMENTS OF 1984

Date of publication in the FEDERAL REGISTER	Title of regulation
(insert date of publication of the final rule).	Standards for the Manage- ment of Recycled Oil

[FR Doc. 85-27902 Filed 11-27-85; 8:45 am]  
BILLING CODE 6860-60-M

#### 40 CFR Parts 260, 261, 271, and 302

[SWH-FRL-2873-5(a)]

#### Hazardous Waste Management System; General; Identification and Listing of Hazardous Waste; Used Oil

AGENCY: Environmental Protection Agency.

ACTION: Proposed rule.

**SUMMARY:** The Environmental Protection Agency (EPA) is today proposing to amend the regulations for hazardous waste management under Subtitle C of the Resource Conservation and Recovery Act (RCRA), by listing used oil as a hazardous waste. EPA has determined that used oil typically and frequently contains significant quantities of lead and other metals, chlorinated solvents, toluene, and naphthalene which would pose a substantial hazard to human health and the environment, if improperly managed. Today's notice also proposes a regulatory definition of used oil and proposes two modifications to the mixture rule to exempt certain mixtures of used oil from regulation. Finally, because used oil will become a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as a result of today's listing, EPA is also proposing to adjust the statutory one pound CERCLA reportable quantity (RQ) for used oil to 100 pounds. The effect of today's proposal, if promulgated, would be to control the treatment and disposal of used oil (as well as its transportation, accumulation, or storage prior to treatment or disposal), by subjecting it to full hazardous waste regulation under Subtitle C of RCRA. At the same time, most used oil that is recycled would be subject to the special management standards for recycled oil being proposed in another Section of today's Federal Register.



**ENVIRONMENTAL TECHNOLOGY TRANSPORTATION & RECEIVING MANIFEST**

1819 Albert Street, Jacksonville, FL — Second &amp; Maury Streets, Richmond VA

DOCUMENT NO. WO#0001

**A. IDENTIFICATION**

GENERATOR			TRANSPORTER			TREATMENT FACILITY			BILLING ADDRESS		
COMPANY NAME Waste Inc.			COMPANY NAME Shipping Inc.			COMPANY NAME ENVIRONMENTAL TECHNOLOGY, INC.			COMPANY NAME Waste Inc.		
ADDRESS 2107 Generator Rd.			ADDRESS 4732 Ship St.			ADDRESS SECOND & MAURY STREETS			ADDRESS 2107 Generator Rd.		
CITY Norfolk	ST VA	ZIP CODE 23226	CITY Richmond	ST VA	ZIP CODE 23224	CITY RICHMOND	ST VA	ZIP CODE 23224	CITY Norfolk	ST VA	ZIP CODE 23226
TELEPHONE 804-989-1000			TELEPHONE 804-989-1111			TELEPHONE (804) 231-2232			TELEPHONE 804-989-1000		

**B. WASTE OIL INFORMATION**

EPA DESCRIPTION AND PROPER DOT SHIPPING NAME	CLASS	DOT ID UN# NA#	QUANTITY/ VOLUME (UNITS)	D. TANK GAUGING DATA (ETI Only)	CUSTOMER PURCHASE ORDER # 00037
PETROLEUM OIL, N.O.S.	COMBUST- IBLE LIQUID	NA 1270	5,000	TANK NUMBER:	REMARKS SPACE:
				GAUGE READING START:	
				GAUGE READING FINISH:	
				TOTAL DIFFERENCE:	

**C. DISPATCH INFORMATION: Time & Date of Pick up:**

C. DISPATCH INFORMATION: Time & Date of Pick up:		E. ANALYTICAL DATA (ETI Only)	
Driver:		VIS:	Gross Gallons:
Truck:	Pump Requirement:	Gravity:	Actual Liquid Gallons:
Tractor:	Hose Requirement:	% Water:	Actual Sludge Gallons:
Trailer:	Time Start:	% BS:	
	Time Finish:	% Sulfur:	
		% Ash:	
		Arsenic, PPM:	
		Cadmium, PPM:	
		Chromium, PPM:	
Mileage Start:	Mileage Finish:	Lead, PPM:	Total Halogen:
		Flash Point °F:	PCB, PPM:

**F. CERTIFICATION**

GENERATOR		TRANSPORTER		TREATMENT FACILITY	
This is to certify that the above named oily waste is properly classified, described, packaged, marked and labeled and are in proper condition for transporting according to the applicable regulations of the U.S. Department of Transportation, Environmental Protection Agency and contains no toxic or hazardous substances that would cause oily waste to be classified as a characteristic or listed hazardous waste.		This is to certify the acceptance of the above oily waste in the amounts and descriptions given and in proper condition for transport to be delivered to the treatment facility.		This is to certify the acceptance of the above named oily waste in the amounts and descriptions given from the named Transporter for treatment, storage disposal or recycling	
AUTHORIZED SIGNATURE (press hard 5 copies) <i>Mr. Johnson</i>		AUTHORIZED SIGNATURE (press hard 5 copies)		AUTHORIZED SIGNATURE (press hard 5 copies)	
TITLE General Manager	DATE OF SHIPMENT 04-10-86	TITLE	DATE ACCEPTED	TITLE	DATE OF RECEIPT

WHITE - GENERATOR'S LAST

GREEN - ETI SALES DEPT

CANARY - ETI LABORATORY

PINK - GENERATOR'S FIRST

GOLDENROD - TRANSPORTER'S COPY



Environmental  
Technology Inc.

## COMPANY PROFILE

Route 3, Box 452  
Staunton, Virginia 22401

2nd and Maury Streets  
Richmond, Virginia 23224

P.O. Box 7693  
Fredericksburg, Virginia 22404

Environmental Technology, Inc. is a totally comprehensive environmental service firm. Among our service offerings are:

- Industrial and municipal waste service
- Petroleum storage tank service and sludge processing
- Emergency response
- In situ remediation
- Hazardous material management and transportation
- Groundwater technology
- Commercial diving

Environmental Technology, Inc. has accumulated eleven years of valuable experience in the environmental service business. Over the years we have developed a thorough breadth of specialized knowledge and technology relating to the environmental field. Additionally, we have assembled a vast inventory of the most sophisticated waste handling equipment available.

An outline of our experience in the various areas of environmental service is as follows:

## **Industrial and Municipal Waste Services**

Environmental Technology, Inc.'s primary specialty over the past eleven years has been in industrial and municipal waste services. Among our specialties are digester and lagoon cleaning and refurbishing, petroleum storage tank cleaning and degassing, industrial waste process modification and/or design.

Leading our staff in this service area is Mr. Ed Quillen. Mr. Quillen is a professional landscape architect and a third generation horticulturist who has designed and implemented major ongoing sludge land application plans for such prominent companies as: E.I. DuPont, FMC, Crompton Co., and many more. Mr. Quillen's knowledge in this area is supplemented by a staff that includes a professional engineer, a geologist, an environmental engineer, and an ecologist.

Our professional reputation and experience in this area speaks for itself. An outline of some of the projects we have successfully completed in this area are as follows:

### **SLUDGE DISPOSAL PROJECTS**

Merck & Co., Inc.  
P. O. Box  
Elkton, Virginia 22827

R. P. Good/Materials Mgmt.  
W. Tesh/Plant Engineer  
(703) 298-1211

Merck generated 7,800,000 gallons of 2-3% solids sludge annually from a fermentation process. Our company signed a one-year, annually renewable contract to transport and dispose of this waste. Over 1600 acres of land was acquired and permitted with the State Water Control Board. Permitting process involved detailed geographic, hydrologic and soils analyses.

Sludge was transported in 5,000 gallon sludge tankers to the site 35 miles from the plant site, where it was transferred to a high-flotation, 2,700 gallon applicator. Environmental Technology (Shenandoah Recycling, Inc.) provided soil and ground water monitoring services. Permitting was through the State Water Control Board/Valley Regional Office which issued a No-Discharge Permit.

Public relations consisted of meeting with newspaper reporters, regulatory personnel from several state agencies, local elected officials and the general public to explain the land treatment operation. We received mixed reviews.

Crompton, Co.  
P.O. Box 907  
Waynesboro, Virginia 22980

D. Bradley/Asst. Plant Mgr.  
Elliott Boyd/Technical  
(703) 943-5000

Crompton, Co., the world's largest producer of corduroy and velveteen, assigned Environmental Technology (Shenandoah Recycling, Inc.) by way of a one-year renewable contract to develop a land treatment plant. We acquired 200 acres of land and performed the necessary soil and water evaluations which were submitted to the State Water Control Board's Valley Regional Office which in turn issued a No-Discharge Permit.

The annual volume of 2,600,000 gallons were transported to the site in 5,000 gallon sludge tankers where it was applied to the site via a 2,700 gallon flotation type applicator. All material transfers were made by using vacuum equipment.

We were responsible for the monitoring of soils and groundwater with the results sent in quarterly to the State Water Control Board. Public relations consisted of responding to questions fielded by concerned citizens during the public notice period of the permitting process.

E.I. DuPont & Co.  
Washington Works  
Parkersburg, West Virginia

W.O. Lay/Plant Manager  
  
(304) 863-4406

DuPont contracted our company to dispose of a minimum of 2,500,000 gallons annually of sludge generated in their waste water treatment plant. Sludge was transported from Parkersburg, West Virginia to Waynesboro, Virginia for disposal. Our technical staff assisted DuPont personnel in acquiring the required No-Discharge Permit from the State Water Control Board and a sludge disposal permit from the Health Department.

City of Staunton  
Staunton, Virginia 22401

Nick Collins  
J. Hart  
(703) 885-0827

The City of Staunton authorized our company to develop a sludge disposal plan for their waste water treatment plant which generates 1,820,000 gallons of digested sludge per year. The sludge disposal plan involved a thorough analysis of the site consisting of over 1,700 acres. Our technical staff and outside consultants performed the soils, hydrology, geology and agronomy evaluations contained in the report.

We are currently disposing of the sludge utilizing a 2,700 gallon vacuum truck equipped with high flotation tires and a splash plate for surface application. Public relations activities have been minimal.

FMC Corporation  
Fredericksburg, Virginia 22401

J. Pettit  
B. Baker

FMC Corporation generated approximately 2,000,000 gallons annually of waste water treatment sludge from its cellophane manufacturing operations in Fredericksburg. Sludge was hauled to sites located in Hanover and Augusta Counties and spread on pasture land with a spreader truck.

When FMC ceased operation our company cleaned the sludge storage lagoons utilizing vacuum equipment. The sludge was then land applied in Hanover County.

This operation continued for a little over a year before the plant was closed.

Spotsylvania County  
600 Hudgins Road  
Fredericksburg, Virginia 22401

Alan Ramsey/Dir. Public Works

Our company cleaned several lagoons over a period of six months, hauling approximately 300,000 gallons of sludge to landfill and landfarming facilities. The majority of the sludge was landfarmed at our facility in Augusta County. The State Water Control Board and Health Department did not issue any permits, but were kept informed of all developments. This project ran from June 1978 through December 1978.

Stafford County/Sanitary District  
P.O. Box 407  
Stafford, Virginia 22554

Harry Critzer/Engineer  
  
(804) 371-1920

Environmental Technology, Inc. cleaned three 150,000 gallon digesters and a lime clarifier at their waste water treatment plant, and a 1,000,000 gallon lagoon at their water treatment plant. Vacuum equipment was used to load 5,000 gallon tankers for transportation to disposal sites. The portion that was land farmed was spread utilizing flotation equipment equipped with 2,700 gallon tanks. Sludge was spread over pasture and hay fields.

City of Fredericksburg  
P.O. Box 7447  
Fredericksburg, Virginia 22401

Wayne Brooks  
Acting Public Works Director  
(703) 371-6722

City of Harrisonburg  
  
Harrisonburg, Virginia

D. Armstrong  
City Engineer  
(703) 434-9534

City of Waynesboro  
Waynesboro, Virginia 22980

J. Bowman  
(703) 942-5271

Wintergreen Resort  
Wintergreen, Virginia

H. Nash/Consultant

Environmental Technology, Inc. has cleaned digesters on a regular basis for the above entities for several years. Disposal of an average of 300,000 gallons of sludge per job is done by landfilling in the municipal landfill or land treatment. Permits are obtained through the Health Department by the municipality in most cases.

Sludge is handled using vacuum equipment of our own design and transported to the disposal area in 5,000 gallon sludge tankers. The municipality handles the public relations and regulatory agencies in the majority of the cases. Work is done on a cost plus basis.

#### **General Description of Sludge Handling Experience:**

Environmental Technology, Inc.'s experience in handling, loading, transporting and disposing of sludge spans eleven years of activity in this field. Services include routine hauling of digested sludges; complete cleaning of digesters and lagoons, and disposal. Our involvement in disposal operations has provided us with a wide range of experiences in dealing with the regulatory agencies and the general public. We operate a fleet of over 40 trucks on a full time basis and have some of the most sophisticated vacuum equipment available for handling sludges.

## **Petroleum Storage Tank Service**

One of the areas of industrial waste service that Environmental Technology, Inc. specializes in is that of fuel tank cleaning, oil/water separator maintenance, and petroleum sludge processing.

We have the capability to perform the fuel tank storage cleaning operation to the point of decontamination and degassing for tank entry, inspection and hot work.

We perform all of our fuel tank cleaning services in strict accordance with those guidelines established by the American Petroleum Institute. We are an approved United States Air Force fuel storage tank contractor.

Additionally, we have developed and are in the process of patenting our own fuel sludge processing/hydrocarbon recovery system. Among our experience in this field are:

Shell Oil Company  
Fredericksburg, Virginia

John McIntyre  
(703) 373-6933

This project consisted of the sludge removal, cleaning and degassing for the purpose of interior welding of six 50,000 barrel fuel storage tanks.

Savannah Army Depot  
Savannah, Illinois

Joe Stewart  
(805) 273-8703

This project consisted of sludge removal and cleaning of four 100,000 gallon underground #6 fuel oil storage tanks. This project included the transportation of all products and sludge and ultimate disposal. Approximately 100,000 gallons of contaminated water and sludge were involved.

U.S. Dept. of Agriculture  
Plum Island Animal Disease Center  
Plum Island, New York

Tom Roselach  
(516) 323-2500

This project consisted of the cleaning and decontamination of seven 50,000 gallon underground #2 fuel oil storage tanks. It required the transportation and disposal of all sludge contained therein.

Federal Emergency Center  
Olney, Maryland

Norm Horn  
(301) 926-5110

Environmental Technology, Inc. was contracted to clean four 20,000 gallon fuel storage tanks and dispose of sludge. The Federal Emergency Center required Environmental Technology to perform this job in a minimal amount of time with an emphasis on keeping the Center fully operational at all times.

Primary Oil & Energy Corp.  
Chester, Virginia

Henry Respass  
(804) 748-6345

The sludge removal and cleaning of all bulk storage tanks contained both leaded and unleaded gasoline products within this tank farm in Chester, Virginia. This is a routine, ongoing service tank maintenance program.

Exxon Terminal  
Roanoke, Virginia

Price Wingate  
(703) 982-3515

Environmental Technology, Inc. cleaned six fuel tanks, water separators, and sumps. Sludge was disposed of in several hazardous waste sites. Recoverable non-hazardous sludges were rendered at Environmental Technology's sludge processing center in Richmond, Virginia.

First Energy Corp.  
Richmond, Virginia

Bill Stearn  
(804) 233-8370

Environmental Technology, Inc. maintains an ongoing contract with First Energy to clean all their tanks, separators and sumps. Sludges are processed in the Environmental Technology's rendering facility.

Department of Defense  
Naval Air Station  
Key West, Florida 33040

Phil Linebarger  
(305) 294-2069

This job involved cleaning, degassing of four 2,500,000 gallon diesel fuel storage tanks, including disposal of 50,000 gallons of petroleum sludge. This project involved installation of level alarms. Environmental Technology, Inc. completed the total project with its own mechanical staff.

## **Waste Site Clean-up**

Environmental Technology has the technical capabilities and the specialized waste handling equipment to undertake most any site clean-up project. This staff is led by Dr. H. W. Cox, Jr., an environmental engineer, and H. Urbie Nash, P.E., a professional sanitary engineer. We will design and build equipment and develop the technical program to clean up any project. Our experience in this area includes:

Boars Head Enterprises - The removal, transportation and disposal of 2,500 cubic yards of sludge material from an inactive aeration lagoon. This project involved the creation of a specialized flotation tired loader. This project was successfully completed in 2½ months.

Keller Industries - This project involved the plan, development and implementation for closure of a 1,000,000 gallon hazardous waste lagoon. It involved the removal, transportation and disposal of 800,000 gallons of liquid and 2,000 cubic yards of sludge material. Also, excavation and site reclamation was involved.



Our experience in groundwater technology includes, but is not limited to, the following projects:

VEPCO - Surry  
Surry, Virginia

B. W. Easley  
(804) 357-5178

This underground spill clean-up project involved clean-up of a 50,000 gallon underground oil spill at a nuclear power plant in Surry, Virginia. The project consisted of the delineation of the area of contamination, installation of recovery wells and the recovery of the contaminated product, which included the ongoing program to maintain the recovery wells and recover the product over a period of 3 months and recycle the reusable product.

Virginia Electric & Power Company  
Chesterfield Power Station  
Chester, Virginia

Bill Singleterry  
(804) 775-5178

The project featured the recovery of 5,000 gallons of underground gasoline contamination. This project involved the delineation of the area of contamination, the drilling and installation of recovery wells and an ongoing maintenance program to recover the product from the recovery wells and recycle the product.

Charlottesville Oil Co.  
Charlottesville, Virginia

Phil Dulaney

Environmental Technology, Inc. built a series of collection trenches for recovery of an unknown quantity of fuel covering several acres of contamination. An elaborate series of flotation controlled pumps removed contaminated groundwater to a separator. Oil was collected for resale and the water was pumped through a treatment system designed and built by Environmental Technology prior to discharge to a nearby stream.

## **Hazardous Material Management and Transportation**

Hazardous materials management is an area in which Environmental Technology, Inc. excels. Leading our staff in this area is Mr. Urbie Nash, a professional sanitary engineer with 11 years experience in industrial waste system design. Throughout his 11 years in this field, he has encountered and resolved various waste material management problems. However his true value lies in his thorough understanding of industrial materials and their relationship to the total environment. To compliment Mr. Nash, and to implement his designs, we have Mr. Dick Heinrich. Mr. Heinrich is a mechanical engineer who has designed and built hazardous waste handling equipment for many major industries throughout the country. Included among these companies are: DuPont, FMC, Merck & Co., Rochester Cable Co., Norfolk & Western Railroad, and many more.

Some of the companies that Environmental Technology, Inc. has handled and transported hazardous materials for are: Rappahannock Wire Co., Federal Mogul, Merck & Co., Dunham-Busch, Rochester Cable Co., Hubbel Lighting Co., Gordonsville Industries, Keller, Meredith/Burda Co., and many more.

## **Metal Fabrication**

Environmental Technology, Inc. has at hand a completely equipped metal fabrication shop. A large portion of our sludge handling equipment is designed and fabricated in our own facilities. We manufacture tanks, vacuum systems, land application equipment, over-the-road transport tankers and sludge handling equipment specifically designed for each particular job. Our specialty is developing systems to handle "hard-to-handle" materials such as sludges, slurries, grits and viscous materials.

A list of some of our industrial clients would include:

Rappahannock Wire Co. Fredericksburg, Virginia Item: Vacuum filtration sand bed unit.	Paul Schwartz (703) 371-0400
---	---------------------------------

Keller Industries Milford, Virginia Item: Hazardous material wastewater treatment process.	Jack Luckhart (305) 651-7100
--	---------------------------------

Charlottesville Oil Co. Charlottesville, Virginia Item: Oil recovery and treatment process.	Phil Dulaney
---	--------------

Merry Oak Farms The Plains, Virginia Item: Cold water release nutrient recovery system for lake system.	Nick Arundel
---	--------------

## Commercial Diving

With our certified team of experienced divers, Environmental Technology, Inc. has performed a wide variety of underwater projects. Our experience includes everything from research projects for the National Oceanic and Atmospheric Administration to dam and spillway inspections for the U.S. Corps of Engineers.

Our divers are led by Dale Andersen, a certified National Association of Underwater Institute (NAUI) diver and diver instructor. Mr. Andersen's vast experience includes: Expedition Leader for a National Science Foundation Research diving project in remote locations of Antarctica under 18' of ice. Activities include penetration of 18' of ice to gain access. To compliment Mr. Andersen, we have Dr. George Simmons, a Certified NAUI Instructor and recognized authority whose publications include **Use of Scuba in Freshwater Research**. Dr. Simmons has led numerous research projects throughout the world. Additionally, we have Dr. Henry Cox, a certified NAUI diver with his own vast background in underwater research and inspection. Rounding out our dive team is Rande McAlexander, a NAUI diving instructor with an associate degree in Underwater Technology from the Florida Institute of Technology. Mr. McAlexander's specialties include underwater emergency medical response and recompression chamber operations.

Diving projects:

U.S. Corps of Engineers  
Tulsa District

Underwater inspection, evaluation and reports of dams and spillways throughout Oklahoma

U.S. Corps of Engineers  
Norfolk District

Underwater inspection, evaluation and reports of dam and spillway at Gathwright Dam, Covington, Virginia

National Oceanic & Atmospheric Administration

Coastal survey of groundwater influx in deep coral reef ecosystems in the Florida keys. This project involved the use of surface supplied air for depths of up to 190 feet.

## **Professional Staff**

This staff consists of chemical and waste treatment engineers, environmental scientists, ecologists, geologists, horticulturists, agronomists, and industrial hygienists. Curriculum vitae, and brief sketches of actual work experience of the key technical personnel of Environmental Technology, Inc. are as follows:

### **HAROLD U. (URBIE) NASH, P.E.**

Education: M.S., Sanitary and Civil Engineering, Virginia Tech

Professional Certificates: Registered Professional Engineer  
Class 1 Licensed Water and Wastewater Treatment Plant Operator

Mr. Nash has eleven years experience in an environmental and civil engineering capacity. He has been responsible for designing and building numerous industrial and municipal waste treatment processes.

Mr. Nash sits on the National Committee of Trout Unlimited and was a past president of that organization in Florida. He is also on numerous professional committees and has publications to his credit.

### **HENRY W. (BUCK) COX, JR., Ph.D.**

Education: PhD. Environmental Engineering, Virginia Tech

Professional Certificates: Class 2 Wastewater Treatment Plant Operator  
Certified Professional Diver

Dr. Cox has ten years experience in environmental engineering covering a wide spectrum of activities. Specialized areas of interest include resource conservation and recovery, and related chemistry. Included in the ten years of experience are two years with the Virginia agency in charge of regulating pollutants to the waters and three years with environmental consulting companies. Dr. Cox took part in research projects with Virginia Tech involving technologies important to the hazardous waste industry, particularly as related to on site degradation of organic compounds.

Dr. Cox sits on the Board of Directors of the Youth Conservation Council and has written a booklet on aquatic ecology for educating youth, in addition to professional publications.

### **WILLIAM E. QUILLEN**

Education: B.S., Landscape Architecture, Virginia Tech

Mr. Quillen has ten years of experience in the development and management of land treatment systems for industrial and municipal wastes. Primary responsibilities included the coordination between State and Federal regulatory agencies; specialized consultants in the field of geology, soils, hydrology, agronomy, and the industrial and municipal client. He was responsible for coordinating the two largest land treatment facilities in Virginia.

In addition to experience, Mr. Quillen worked for American Oil in Saudi Arabia and was responsible for design, development, construction, and operation of a large landscape architecture project. The project involved extensive management of personnel in addition to the management of the facility operation.

## **DALE THOMAS ANDERSEN**

Education: B.S., Biology; Virginia Tech

Professional Activities: Certified Professional Diver

Mr. Andersen's expertise falls primarily in the area of ecology. Since 1977, Dale has worked extensively on ecological research projects in several unique areas of the world including Antarctica where he led a team of scientists for a three-year dive project.

Mr. Andersen has extensive knowledge in all facets of commercial diving. This experience lends itself well to the safe handling of hazardous materials since many of the safety procedures require similar protocol. Because of this experience and his knowledge of chemistry, he leads Environmental Technology's effort at keeping our people trained for safely handling hazardous materials.

Mr. Andersen's knowledge of chemistry and ecology compliments Environmental Technology's staff well for site delineation and remedial action projects.

## **GEORGE SIMMONS, JR.**

Education: Ph.D., Limnology and Entomology; Virginia Tech

Professional Activities: American Institute of Biological Sciences  
North American Benthological Society  
Virginia Academy of Science  
Sigma Chi  
American Society of Zoologists

Dr. Simmons' experience as the principal investigator for literally hundreds of thousands of dollars worth of research money at Virginia Tech has given him a vast amount of managerial experience.

Dr. Simmons' primary interests are into perturbations of the environment due to pollutional stress. His most recent project involved contamination of groundwater off the coast of the Florida Keys.

While he still maintains a faculty position at Virginia Tech, he performs a significant amount of sub-contract work for Environmental Technology.

## **RANDE McALEXANDER**

Education: A.S., Underwater Technology; Florida Institute of Technology

Professional Activities: Certified Professional Diver

Mr. McAlexander is primarily responsible for the care and maintenance of our service equipment. He brings six years of mechanical experience to our organization. He is a skilled welder, machinist, and mechanic. Mr. McAlexander is also a trained diver-medical which we feel is important to our safety program.

In addition to his mechanical skills, Mr. McAlexander is also trained in all aspects of commercial diving.

**GREGORY DALE BOARDMAN**

Education: Ph.D., P.E., Civil Engineering; University of Maine

Professional Activities: Professional Engineer

Dr. Boardman works as a consultant to Environmental Technology. He currently works on the faculty of Virginia Tech where his primary interests in research involve treatment of hazardous materials.

## **CONCLUSION**

In conclusion, Environmental Technology, Inc. is interested in pursuing projects involving all aspects of resource conservation and recovery. We feel we have the expertise and equipment to tackle even the most difficult of environmental remediation problems. It is our goal to be a leader in the field and to maintain an impeccable reputation in the process.