

## OHIO EPA'S MANAGEMENT OF ANNUAL HW REPORT DATA

### Paula Canter, Annual Report Coordinator

Ohio has always been a translator and since the 1995 cycle uses forms that are based on, but not identical to, US EPA's. Ohio's instructions and forms are in PDF format on the Division of Hazardous Waste Management's Web page at [www.epa.state.oh.us/dhwm](http://www.epa.state.oh.us/dhwm), under Publications.

DHWM is currently in the midst of a two year project to replace our usage of RCRIS with a new Oracle system that ties into an agencywide core database. Information common to all media programs will be stored in core while program-specific data is in a separate but related system. DHWM's new system is called DRUMS. The Annual Report component is the first scheduled for completion so that electronic reporting is available to respondents for the 1999 cycle. The attached "business rules" were drafted by Paula as part of the requirements. The screens and business rules will be the same for the implementor version and the electronic reporting software, referred to as the DEM (Data Entry Module). The only major differences are the administrative functions that the implementor needs, such as mailing list creation, file management, and printing numerous reports.

Note that many of the business rule checks are warning statements, not fatal errors.

Unfortunately much editing is based on contextual clues and the knowledge of the reviewer. A human's intervention is still needed for quality data. When reviewing system type codes for shipments, Ohio relies heavily on a spreadsheet of national receiving facilities that Paula created based on data from BRS and other reliable sources (see sample page in this handout). It is part of the instruction booklet and hopefully will be incorporated in the DEM. The system type code for shipments is the most frequently corrected element of the report.

DEM users will have the ability to store multiple years of reports and can also manage reports for more than one site. Consultants will supply the file(s) to the client, who can then review it and send it to EPA after using a PIN to certify it. There are plans for an agencywide PIN application since other programs are also implementing electronic reporting and it would be more practical for each site to have one PIN to keep track of.

The implementor chooses reports to review and invokes the business rule check from a "holding area". The report original is permanently stored as a document in the system, whether it comes in electronically or is keyed from paper by the implementor. Any revisions invoke the establishment of a second document, the working copy of the report that will be used from then on. The fact that we are moving away from paper and are decentralizing data access makes this crucial. An audit report based on the business rules can be sent to the respondent, listing the errors fixed or asking them to supply corrections.

Facilities have always had the option to send data via ASCII file. Currently, most of the TSD facilities are taking advantage of this. A chronic problem is that they are not completely following the structural specifications or they have not done sufficient QA checks (e.g., invalid

form codes). By using the DEM they can load the ASCII file themselves rather than sending it to Ohio EPA, forcing them to deal with the problems directly.

Based on Ohio's trade secret law, most TSD facilities claim confidentiality for customer identification information. Any vendor who deals with a state that has this situation must create a flag for such data and prevent it from being displayed in anything that will become public. Ohio also has some data elements on the report that aren't present on US EPA's, a waste minimization comment box and end of year storage data for permitted facilities.

Most of the report printouts Ohio uses were created by staff using InfoMaker to query the existing Oracle system ARTIST. Some samples are attached to this handout. Ohio receives numerous requests for a statewide shipment report since there is no manifest tracking system. Paula prepares a detailed summary of the Annual Report data which can be found on the Web page as the "General Statistics" report. A wide range of reports are needed and flexibility and ease of use are important.

Ohio is increasingly asked to provide electronic report data to a requestor who does not have the time or ability to work with the standard BRS file translation format. We have recently begun to offer three dbf files containing the site identification and shipment information. A vendor may want to consider offering different export capabilities.

ARTIST is less than ideal in many ways but the knowledge gained has enabled us to design a better system within DRUMS. If you have any questions, contact Paula at (614) 644-2923, or send e-mail to paula.canter@epa.state.oh.us.

**OHIO'S BUSINESS RULE LOGIC - Draft**

Form IC		
Logic Check	Type	Audit Statement
If Gen Status = LQG, then total generated has to be more than 2200 pounds. Exception: If one of the waste codes begins with a P, only 2.2 lbs triggers LQG status.	Stop	The generator status you selected on Form IC does not match the total quantity generated as listed on the GM forms. Verify quantities and check the generator size definitions.
If Gen Status = SQG and GM forms were submitted, the total amount generated should be greater than 220 lbs but less than 13.2 tons (2200 lbs x 12 months).	Stop	Ditto
If Gen Status = CESQG and GM forms were submitted, the total amount generated should not be greater than 2640 pounds (220 lbs x 12 months).	Stop	Ditto
If Gen Status = Non-gen, one or more of the Reasons for Not Generating has to be checked.	Stop	One or more Reasons for Not Generating have not been checked.
If On-Site Waste Management is not a 1 for both storage and TDR, check to see if any GM form has Section 2 on-site system 1 info.	Warn	Form IC On-Site Waste Mgmt responses indicate you manage waste on-site, but there are no GM forms with such data in Section 2. Please verify.

Form GM		
Logic Check	Type	Audit Statement
If Ship=Y, sum for this form page the total shipped and compare to Sec 2 Box B, total generated for the year. If they are not the same, produce audit statement.	Warn	For this GM form, the total shipped is different from the total generated. If this is accurate, ignore this message. If they should be identical, check the quantities you have entered.
System Type Code checks for shipments: Compare against receiving facilities spreadsheet. The logic on this is a little tricky but worth including due to data quality gains. If the facility only does storage/transfer (M141), for example, then these are Stops. Info on some facilities is more sketchy (category level) and should be a Warn.	Warn Stop	The System Type Code supplied for the receiving facility does not correspond with reference information Ohio EPA has compiled. The System Type Code should represent the handling method used by the initial receiver, not the final destination. Please verify this information.
Off-Site Availability Code should always be a 1 except for specific receiving facilities (supply list).	Warn	Verify the Off-Site Availability Code in the shipment section.
If Source Code=A53, A56, A61-A69, the Origin Code should be a 2.	Stop	The Source Code listed indicates the Origin Code should be a 2. Investigate and change either the Source or the Origin.
If the Origin Code=2, the Source Code should be A53, A56, or A61-A69.	Stop	If the Origin Code=2, the Source Code should be A53, A56, or A61-A69. Investigate and change either the Origin or the Source.
If the Origin Code=5, the Source Code probably should be A71-A89.	Warn	The Origin Code listed is a 5, indicating a residual from treatment, disposal, or recycling. Therefore the Source Code should be from the Pollution Control or Waste Treatment Processes category.

Form GM		
If the Origin Code=4, Section 2 Box B, quantity generated in the current year, should be 0.	Stop	An Origin Code of 4 indicates off-site receipt and subsequent storage/transfer. Therefore the generation quantity should be 0. Only commercial receiving facilities should use Origin Code=4.
If the Origin Code=4, there should not be any on-site process system info in Section 2.	Stop	The on-site process information in Section 2 does not match the Origin Code=4 definition. Investigate and correct.
If the Origin Code=5, the System Type Code cannot be blank.	Stop	A System Type Code must be listed for residuals from TDR processes if the Origin Code=5.
If the Origin Code=1-4, the System Type Code has to be blank.	Stop	A System Type Code should not be listed for Origin Codes 1-4. Verify the Origin Code.
If the description contains the word “batteries” or “battery”, the Form Code should be B309.	Warn	The Form Code for batteries is B309.
The only sites that regularly have RCRA-radioactive mixed waste are (supply list).	Warn	You have indicated that the waste is RCRA-radioactive mixed. Is this correct?
If the description contains the words “off-spec”, “off spec”, “out-of-date”, “out of date”, “outdated”, or “obsolete”, the Source Code should be A57 or A58.	Warn	Source Codes A57 or A58 should be listed for off-spec material or out-of-date products or chemicals.
If the description contains the words “still bottom”, the Origin Code probably should be a 5 and the Source Code A71-A89.	Warn	The words “Still Bottom” indicate that you have a waste TDR process. If the waste is a residual from TDR, the Origin Code is a 5 and requires a System Type Code.
If the description contains the words “still bottom”, the Form Code probably should be B601, B602, or B40X.	Warn	The words “Still Bottom” indicate that the Form Code should be B601, B602, or in the organic solids category, B40X.
If the description contains the words “lab pack”, the Form Code should be B001-B009.	Warn	The Form Codes for lab packs are B001-B009.
Density and Density Unit of Measure can’t be blank if the Unit of Measure is volumetric (G, L, or Y).	Stop	If the Unit of Measure is gallons, liters, or yards, the density and its unit of measure in lbs/gal or sg must be provided.
Receiving facilities or transporters in a foreign country should have “FC” ID numbers listed. DEM should have a look-up for these.	Warn	The receiving facility/transporter listed is in a foreign country. Look up the appropriate “FC” Foreign Country ID number for this company.
Each GM page must have a different page number.	Stop	Each Form GM must have a unique page number.
If the description contains the words “blended fuel” or “fuel”, it should be listed as a residual from treatment, Origin Code=5 and System Type Code=M061.	Warn	Fuel blending residuals should be reported with an Origin Code of 5 and a System Type Code of M061.
If one of the waste codes begins with a P, or is F020-23, F026, or F027, AND the Form Code is a lab pack (B001-3 or B009), the Form Code should be B004.	Stop	The Form Code for lab packs containing acute hazardous wastes is B004.
Check for duplicate pages. These would have same Form Code, Source Code, Origin Code, and qty_curr_yr.	Warn	There are one or more GM forms with duplicate Origin Code, Source Code, Form Code, and generation quantity. Verify and correct if necessary.

Form GM		
If the quantity generated in the current year is 0, is there an on-site process system or shipment data?	Warn	Is submittal of this form necessary? The generation quantity is 0 and there is no shipment or on-site management data.
If the Source Code is an "Other" - A19, A29, A49, A59, A69, A89, A99 - did they explain in the comment section?	Warn	It is suggested that an explanation be provided in the comment section for "Other" Source Codes.
If the Form Code is an "Other" - B009, B119, B219, B319, B409, B519, B609 - did they explain in the comment section?	Warn	It is suggested that an explanation be provided in the comment section for "Other" Form Codes.
If the System Type Code is "Other" or "Type Unknown" - M014, M019, M024, M029, M032, M039, M049, M059, M078, M079, M085, M089, M094, M099, M109, M119, M125, M129, M137 - did they explain in the comment section?	Warn	The System Type Code selected is an "Other" or "Type unknown". It is suggested that an explanation be provided in the comment section if the receiving facility is out of state.
At least one waste code must be listed.	Stop	At least one valid US EPA RCRA waste code must be listed.
The waste code(s) must be valid as compared to lookup table.	Stop	An invalid US EPA RCRA waste code has been entered. Codes for state-specific or non-hazardous waste are not accepted.
Cross-check with OI: receiving facility in Section 3 is not listed as a TSD on the OI form. It may be listed as a transporter (correctly or not) or missing from OI totally.	Stop	A facility listed as a receiver in Section 3 is not listed as such on the Form OI. Check the entries on Form OI; add the facility or verify the handler type boxes.
Validity check for Density UOM. For a Density UOM of lbs/gal, is the value < 4 or greater than 15?	Warn	The Density listed may be out of range for the Unit of Measure pounds/gallon (lbs/gal). Are the Density and Unit of Measure correct?
Validity check for Density UOM. For a Density UOM of sg, is the value >4?	Warn	The Density listed may be out of range for the Unit of Measure specific gravity (sg). Are the Density and Unit of Measure correct?
In Section 2, the On-site Systems shouldn't have identical quantities. Check to see if qty 1 = qty 2.	Warn	The quantities for On-site System 1 and On-site System 2 are identical. Review the instructions; the systems reported should be parallel methods, not sequential.
If the facility type = commercial receiving facility (presence of WR forms), are there any GM pages with an Origin Code other than 4? There should be.	Warn	There are no wastes with an Origin Code other than 4. Didn't this facility generate HW during the year?

Form OI		
Logic Check	Type	Audit Statement
If the postal code is "CN", this indicates a foreign country and a FC ID should be listed.	Warn	The receiving facility/transporter listed is in a foreign country. Look up the appropriate "FC" Foreign Country ID number for this company.
Receiving facilities or transporters in a foreign country should have "FC" ID numbers listed. (This same business rule is in GM list.)	Warn	

Form OI		
Handlers should not be listed twice on the OI.	Stop	Only one entry per facility/EPA ID is allowed. All appropriate handler types should be marked on that single entry.
Every receiver listed on the OI should also be on the GM.	Stop	One or more receiving facilities on Form OI are not listed on any of the GM Forms.
Each OI page must have a different page number.	Stop	Each Form OI must have a unique page number.
There must be at least one transporter listed if Ship=Yes on at least one Form GM.	Stop	No transporters are listed on Form OI.

Form WR		
Logic Check	Type	Audit Statement
The customer's ID number should have a valid postal code or "FC" as the first two characters in the ID.	Warn	The customer's ID number should have a valid postal code or "FC" as the first two characters in the ID.
The customer's ID should pass the check digit test unless it's a temporary ID.	Warn	The customer's ID does not pass US EPA's validation test for permanent ID numbers. It may have a typographical error.
The postal code in the customer's ID should match the postal code in the address.	Warn	The postal code in the customer's ID should match the postal code in the address. Verify the pickup location address.
Quantity received can't be 0.	Stop	The waste receipt quantity is listed as 0.
At least one waste code must be listed.	Stop	At least one valid US EPA RCRA waste code must be listed.
The waste code(s) must be valid as compared to lookup table.	Stop	An invalid US EPA RCRA waste code has been entered. Codes for state-specific or non-hazardous waste are not accepted.
Each WR page must have a different page number.	Stop	Each Form WR must have a unique page number.
Validity check for Density UOM. For a Density UOM of lbs/gal, is the value < 4 or greater than 15?	Warn	The Density listed may be out of range for the Unit of Measure pounds/gallon (lbs/gal). Are the Density and Unit of Measure correct?
Validity check for Density UOM. For a Density UOM of sg, is the value >4?	Warn	The Density listed may be out of range for the Unit of Measure specific gravity (sg). Are the Density and Unit of Measure correct?
Density and Density Unit of Measure can't be blank if the Unit of Measure is volumetric (G, L, or Y).	Stop	If the Unit of Measure is gallons, liters, or yards, the density and its unit of measure in lbs/gal or sg must be provided.
If one of the waste codes begins with a P, or is F020-23, F026, or F027, AND the Form Code is a lab pack (B001-3 or B009), the Form Code should be B004.	Stop	The Form Code for lab packs containing acute hazardous wastes is B004.

# OhioEPA 1998 Annual Hazardous Waste Report

## Form IC - Identification and Certification

**Name:** DORN COLOR INC

**EPA ID:** OHD987007747

**Total Tons**

**Street Address**  
2215 E 14TH ST  
CLEVELAND

**Mailing Address**  
Same as location

**Generated:** 38.91  
**Shipped:** 38.91

OH 44115-

**Contact:** BILL ROBLIN  
ENGINEER MGR

**Phone:** (216)621-0768 EXT 329

**Generator Status:** LQG      **On-site Mgmt:** Storage Permit- NO      TDR Permit- NO

**Waste Min Activities:** Source Reduction - NO      Recycling - NO      Waste Min. Assessment - NO

SOURCE REDUCTION HAS BEEN PREVIOUSLY IMPLEMENTED. ADDITIONAL RECYCLING IS NOT TECHNICALLY FEASIBLE.

## Form GM - Generation and Management

**Waste:** WASTE PAINT

**SIC:**2752 **Origin:**1 **SysType:**  
D001 D035 F003 F005

**Source:**A21 **POM:**1 **Form:**B209 **Rad:**N  
**Shipped:**Y

PrevYrGen:	10305	Page 3	
CurrYrGen:	7370 G	8.5 lbs/gal	
Receiving Facility	SysType	Avail	Quantity
OHD001926740	M061	1	3905
ALD981020894	M061	1	2035
OHD980681571	M061	1	1430

**Waste:** WASTE CLEANING LIQUID  
**SIC:**2752 **Origin:**1 **SysType:**  
D001 D005 F003 F005

**Source:**A05 **POM:**1 **Form:**B211 **Rad:**N  
**Shipped:**Y

PrevYrGen:	2365	Page 5	
CurrYrGen:	2200 G	6.9 lbs/gal	
Receiving Facility	SysType	Avail	Quantity
OHD001926740	M061	1	1650
OHD980681571	M061	1	550

## Form OI - Off-site Transporter and Receiving Facility Information

**EPA ID:** OHD001926740

**Name:** HUKILL CHEMICAL CORPORATION

X - Transporter

**Address:** 7013 KRICK ROAD

X - Receiving Facility

BEDFORD, OH 44146

**EPA ID:** OHD052324548

**Name:** LIBERTY SOLVENTS & CHEMICALS CO INC

X - Transporter

**Address:** 9429 RAVENNA ROAD

- Receiving Facility

TWINSBURG, OH 44087

**EPA ID:** OHD980681571

**Name:** NORTH EAST CHEMICAL CORP.

- Transporter

**Address:** 3301 MONROE AVE.

X - Receiving Facility

CLEVELAND, OH 44113

**EPA ID:** ALD981020894

**Name:** FISHER INDUSTRIAL SERVICE INC

- Transporter

**Address:** 402 WEBSTER CHAPEL RD

X - Receiving Facility

GLENCOE, AL 35905

<u>Name/EPA ID</u>	<u>Address</u>	<u>Contact/Phone</u>	<u>Total Tons - 1996</u>		<u>Gen. Status</u>
			<u>Generated</u>	<u>Shipped</u>	
<b>Adams County</b>					
GENERAL ELECTRIC PEBBLES TEST OPER OHD063971295	1200 JAYBIRD ROAD PEEBLES, OH 45660	SAM YOUNG (937)587-4287	3.29	3.29	LQG
WELDED WIRE PRODUCTS OHD004548905	FIFTH AND STARK ST MANCHESTER, OH 45144	RANDY RIGGS (937)549-2631	12.64	12.64	LQG
<b>Allen County</b>					
AKZO NOBEL CHEMICALS INC. OHD987054657	1747 FORT AMANDA ROAD LIMA, OH 45804	STEVE MOYER (419)229-0088 EXT 103	8720.35	8720.35	LQG
ARCADIAN OHIO LP OHD987054061	1900 FT AMANDA RD LIMA, OH 45804	VINCE BUCHTMAN (419)226-1558	0.00	0.00	NON
ASHLAND PETROLEUM COMPANY OHD051628998	575 BUCKEYE RD LIMA, OH 45802	SHELIA DELONG (419)884-0800 EXT 229	0.00	0.00	NON
BP CHEMICALS INC OHD042157644	1900 FORT AMANDA ROAD LIMA, OH 45804-1827	VINCE BUCHTMAN (419)226-1558	983457.60	193.55	LQG
BP OIL CO - LIMA REFINERY OHD005051826	1150 S METCALF ST. LIMA, OH 45804	PAUL LOGSDON (419)226-2645	3190.86	3189.96	LQG
BP OIL CO - LIMA TERMINAL OHD000812180	817 WEST VINE ST LIMA, OH 45804	ANDREA KLEIN (216)586-8515	0.00	0.00	NON
BP OIL PIPELINE COMPANY - LIMA OH0000004291	1783 BUCKEYE RD LIMA, OH 45804-1839	TERRY BARKER (317)831-1770	0.00	0.00	NON
BUCKEYE PIPE LINE CO LP - LIMA OHD068100650	3250 S DIXIE HWY LIMA, OH 45801	MARK BONENBERGER (610)770-4467	0.00	0.00	NON
CSX TRANSPORTATION OHR000014365	227 MCKIBBEN STREET LIMA, OH 45801	C.E. HICKS (904)359-4800	5.47	5.47	LQG
DANA CORP - SPICER DRIVESHAFT DIV OHD048783245	777 BIBLE ROAD LIMA, OH 45801	GREG MORRIS (419)227-2001 EXT 243	0.00	0.00	CESQG
DTR INDUSTRIES OHD183824903	320 SNIDER ROAD BLUFFTON, OH 45817-9573	RICK RUPERT (419)358-2121 EXT 178	352.15	348.08	LQG
FLEXIBLE FOAM PRODUCTS OHD063714174	12575 BAILEY ROAD SPENCERVILLE, OH 45887	FORREST BUCHANAN (419)647-4172	0.00	0.00	NON
FORD MOTOR COMPANY LIMA ENGINE PLANT OHD005051289	1155 BIBLE ROAD LIMA, OH 45801	KEVIN BRUIN (419)226-7081	5.74	5.74	LQG
LIMA ARMY TANK PLANT OH7210020510	1155 BUCKEYE ROAD LIMA, OH 45804-1898	THOMAS ANSLEY (419)221-8308	21.11	20.82	LQG
MARATHON ELECTRIC MFG CORP OHD005035654	200 EAST CHAPMAN ROAD LIMA, OH 45801	DAVE CONINE (419)999-1822	0.00	0.00	SQG
METOKOTE CORPORATION-PLANT 1 OHD000804690	1075 PROSPERITY ROAD LIMA, OH 45801	THOMAS SYFERT (419)227-1100 EXT 239	9.24	9.24	LQG
METOKOTE CORPORATION-PLANTS 2 & 3 OHD048788426	1340 NEUBRECHT RD LIMA, OH 45801	THOMAS SYFERT (419)227-1100 EXT 239	158.26	158.26	LQG
METOKOTE PLANT 4 OHD005049200	1200 E KIBBY ST LIMA, OH 45801	THOMAS SYFERT (419)227-1100 EXT 239	0.00	0.00	NON
OHIO DECORATIVE PRODUCTS INC. OHD005036264	220 SOUTH ELIZABETH STREET SPENCERVILLE, OH 45887	MIKE SAWMILLER (419)647-4191 EXT 212	115.09	107.69	LQG



## Ohio Environmental Protection Agency Division of Hazardous Waste Management

12/14/98

## 1997 Shipment Information By County and Generator

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Name / ID / Contact Name / Phone Number	Location Address	Mailing Address	Size / SIC / Total Tons
S & S / SUPERIOR OF OHIO INC. OH0001002781 County: Allen JERRY BERENDSEN (419) 998-8635	2550 CENTRAL POINT PARKWAY  LIMA, OH 45804	P.O. BOX 1981  LIMA, OH 45802-1981	LQG 3711 Gen 14.19 Ship 14.19
<b>Waste: WASTE, FLAMMABLE LIQUID SPENT XYLENE HEXANE TOLUENE MEK</b>	<b>Origin: 1</b>	<b>SysType:</b>	<b>Source: A21 Form: B211 On-site TDR: N UOM</b>
<b>Codes: D001 D007 D008 D018 D022 D028 D035 D039 D040 F003 F005</b>	<b>RCVFAC: ILD980613913 KYD053348108</b>	<b>System Type: M061 M061</b>	<b>Amount: *****1136 G *****2805 G</b>
Name / ID / Contact Name / Phone Number	Location Address	Mailing Address	Size / SIC / Total Tons
SHELL OIL COMPANY OHD000817627 County: Allen SONDRA BIENVENU (713) 241-2258	1500 WEST BUCKEYE ROAD  LIMA, OH 45804	P.O. BOX 2099  HOUSTON, TX 77252-2099	LQG 5171 Gen 12.35 Ship 12.35
<b>Waste: OIL/WATER SEPARATOR SLUDGE</b>	<b>Origin: 1</b>	<b>SysType:</b>	<b>Source: A60 Form: B603 On-site TDR: N UOM</b>
<b>Codes: D001 D018</b>	<b>RCVFAC: TND000645770</b>	<b>System Type: M141</b>	<b>Amount: *****2000 P</b>
<b>Waste: GASOLINE TANK BOTTOM SLUDGE</b>	<b>Origin: 1</b>	<b>SysType:</b>	<b>Source: A60 Form: B205 On-site TDR: N UOM</b>
<b>Codes: D001 D018</b>	<b>RCVFAC: IND093219012</b>	<b>System Type: M032</b>	<b>Amount: *****3630 G</b>
Name / ID / Contact Name / Phone Number	Location Address	Mailing Address	Size / SIC / Total Tons
SUNSTRAND CORPORATION OHT400013397 County: Allen ROBERT JOHNSON (419) 221-6192	1501 SOUTH DIXIE HIGHWAY  LIMA, OH 45802	1501 SOUTH DIXIE HIGHWAY  LIMA, OH 45802	LQG 3621 Gen 24 Ship 24
<b>Waste: WASTE TOXIC LIQUIDS (METH CHLORIDE) FROM DECOMMISSIONING</b>	<b>Origin: 2</b>	<b>SysType:</b>	<b>Source: A93 Form: B204 On-site TDR: N UOM</b>
<b>Codes: D007 F002 F003</b>	<b>RCVFAC: TND000645770</b>	<b>System Type: M141</b>	<b>Amount: *****440 P</b>
<b>Waste: WASTE METAL-CONTAMINATED SOLIDS FROM PLANT DECOMMISSIONING</b>	<b>Origin: 2</b>	<b>SysType:</b>	<b>Source: A93 Form: B319 On-site TDR: N UOM</b>
<b>Codes: D007 D008 D011</b>	<b>RCVFAC: TND000645770</b>	<b>System Type: M141</b>	<b>Amount: *****7630 P</b>
<b>Waste: CYANIDE - CONTAINING CLEANING SOL FROM PLANT DECOMMISSIONING</b>	<b>Origin: 2</b>	<b>SysType:</b>	<b>Source: A93 Form: B219 On-site TDR: N UOM</b>
<b>Codes: D003 D006 D011</b>	<b>RCVFAC: TND000645770</b>	<b>System Type: M141</b>	<b>Amount: *****140 P</b>
<b>Waste: WASTE SOLVENTS FROM PLANT DECOMMISSIONING</b>	<b>Origin: 2</b>	<b>SysType:</b>	<b>Source: A93 Form: B211 On-site TDR: N UOM</b>
<b>Codes: D001 D007 D008 D026 D035 F003 F005</b>	<b>RCVFAC: TND000645770</b>	<b>System Type: M141</b>	<b>Amount: *****940 P</b>
<b>Waste: MERCURY IN MANUFACTURED ARTICLES</b>	<b>Origin: 2</b>	<b>SysType:</b>	<b>Source: A93 Form: B319 On-site TDR: N UOM</b>
<b>Codes: D009</b>	<b>RCVFAC: WID003967148</b>	<b>System Type: M111</b>	<b>Amount: *****25 P</b>
<b>Waste: WASTE AEROSOLS FROM PLANT DECOMMISSIONING</b>	<b>Origin: 2</b>	<b>SysType:</b>	<b>Source: A93 Form: B801 On-site TDR: N UOM</b>
<b>Codes: D001 D008 D035 F002</b>	<b>RCVFAC: TND000645770</b>	<b>System Type: M141</b>	<b>Amount: *****120 P</b>

<b>TSD Facility:</b> PERMA-FIX OF DAYTON OHD004274031	<b>Location:</b> 300 S. WEST END AVE. DAYTON, OH 45427
<b>Customer:</b> SIMON & FISCHER OLDSMOBILE KYD024130098	<b>Address:</b> 41 EAST 3RD STREET NEWPORT, KY 41071
<b>Waste:</b> WASTE PAINT RELATED MATERIAL System Type: M141 Form: B209 D001 D005 D007 D008 F002 F003	<b>Quantity:</b> 975 UOM: P <b>Density:</b> 8.33 lbs/gal 26,1
<b>Customer:</b> SHERWIN-WILLIAMS COMPANY KYD082390394	<b>Address:</b> 395 BOGGS LANE RICHMOND, KY 40475
<b>Waste:</b> WASTE FLAMMABLE LIQUID System Type: M077 Form: B207 D001 D035	<b>Quantity:</b> 9627 UOM: G <b>Density:</b> 8.35 lbs/gal 27,1
<b>Customer:</b> MAACO AUTO PAINTING KYD981853492	<b>Address:</b> 7474 INDUSTRIAL ROAD FLORENCE, KY 41042
<b>Waste:</b> WASTE PAINT RELATED MATERIAL System Type: M141 Form: B209 D001 D005 D006 D007 D008 D035 F003 F005	<b>Quantity:</b> 990 UOM: G <b>Density:</b> 7.13 lbs/gal 28,1
<b>Customer:</b> HICKMAN PIPE & TUBE KYD985081074	<b>Address:</b> 828 CATLETT ST HICKMAN, KY 42050
<b>Waste:</b> HAZARDOUS WASTE SOLID (XYLENE METHYLENE) System Type: M141 Form: B202 F002 F003	<b>Quantity:</b> 715 UOM: G <b>Density:</b> 7.57 lbs/gal 29,1
<b>Customer:</b> KING TOOL COMPANY KYD985084185	<b>Address:</b> 1454 COX AVENUE ERLANGER, KY 41018
<b>Waste:</b> WASTE PAINT RELATED MATERIAL System Type: M141 Form: B209 D001 D004 D005 D006 D007 D008 F003 F005	<b>Quantity:</b> 110 UOM: G <b>Density:</b> 7.17 lbs/gal 30,1
<b>Customer:</b> LEES MINI MART KYR000011650	<b>Address:</b> 471 ELM ST LUDLOW, KY 41016
<b>Waste:</b> HAZARDOUS WASTE SOLID System Type: M141 Form: B319 D005 D006 D008	<b>Quantity:</b> 660 UOM: G <b>Density:</b> 8.33 lbs/gal 25,1
<b>Customer:</b> J RAY MCDERMOTT INC - FABRICATO LAD000757526	<b>Address:</b> HWY 90 EAST & HWY 622 S AMELIA, LA 70340
<b>Waste:</b> WASTE PAINT RELATED MATERIAL System Type: M141 Form: B209 D001 D008 D035 F003 F005	<b>Quantity:</b> 5775 UOM: G <b>Density:</b> 7.71 lbs/gal 32,1
<b>Customer:</b> BAKER PERFORMANCE CHEMICALS LAD000778324	<b>Address:</b> 135 INDUSTRIAL DR RAYNE, LA 70578
<b>Waste:</b> WASTE FLAMMABLE LIQUID System Type: M141 Form: B203 D001	<b>Quantity:</b> 1760 UOM: G <b>Density:</b> 7.78 lbs/gal 33,1
<b>Customer:</b> DOLPHIN SERVICES INC LAD037961430	<b>Address:</b> 400 THOMPSON HOUMA, LA 70363
<b>Waste:</b> HAZARDOUS WASTE LIQUID System Type: M141 Form: B203 D035 F002 F003	<b>Quantity:</b> 55 UOM: G <b>Density:</b> 10.67 lbs/gal 34,1
<b>Customer:</b> CERTAINTEED CORPORATION LAD040332025	<b>Address:</b> 3300 PETE MANENA RD SULPHUR, LA 70864
<b>Waste:</b> WASTE FLAMMABLE LIQUID System Type: M141 Form: B407 D001 D043	<b>Quantity:</b> 800 UOM: P <b>Density:</b> 8.33 lbs/gal 35,3
<b>Waste:</b> HAZARDOUS WASTE SOLID System Type: M141 Form: B407 D043	<b>Quantity:</b> 600 UOM: P <b>Density:</b> 8.33 lbs/gal 35,1
<b>Waste:</b> HAZARDOUS WASTE SOLID System Type: M141 Form: B407 D028 D043	<b>Quantity:</b> 200 UOM: P <b>Density:</b> 8.33 lbs/gal 35,2
<b>Customer:</b> CALCASIEU SHIPYARD INC LAD045761731	<b>Address:</b> 8086 CALCASIEU SHIPYARD RD SULPHUR, LA 70663
<b>Waste:</b> WASTE PAINT RELATED MATERIAL System Type: M141 Form: B209 D001 F003 F005	<b>Quantity:</b> 770 UOM: G <b>Density:</b> 8.33 lbs/gal 36,1

**OFF-SITE RECEIVING FACILITIES OF RCRA HAZARDOUS WASTE - 2/22/99**

NAME	CITY	EPA ID	RECOVERY					INCIN	TREATMENT									DISP	STOR
			Metal	Organic		Inorg.	Energy		Aq.			Aq.	Org. +						
			M01X	M02X	M032	M03X	M05X	M04X	M061	WW	M07X	M08X	M09X	M10X	M11X	M12X	M13X	M141	
AT&T Nassau Metals [Exempt]	Staten Island	NYD086225596	1,4																
CECOS International Inc.	Niagara Falls	NYD080336241							X	7	5								
Chemical Pollution Control	Bay Shore	NYD082785429																X	
Chemical Waste Disposal Corp.	Astoria	NYD077444263																X	
Chemical Waste Management	Model City	NYD049836679						X	X			1,4		1,2	5	2		X	
Dupont Company	Rochester	NYD045604964	4						X	7									
KBF Pollution Mgmt. [Exempt]	N. Lindenhurst	NYD981182769	X						X	2									
Learonal	Freeport	NYD001325661	1,4																
Mercury Refining Company, Inc.	Albany	NYD048148175	2,4																
Norlite Corporation [AK]	Cohoes	NYD080469935					1												
Northeast Environmental Services Inc.	Wampsville	NYD057770109						X	X							5		X	
Pride Solvents And Chemical Co. Inc.	W. Babylon	NYD057722258		1														X	
Radiac Research Corp.	Brooklyn	NYD049178296																X	
Revere Smelting & Refining Corp.	Middletown	NYD030485288	3																
Safety-Kleen (BDT) Inc.	Clarence	NYD000632372						3,4	X							5		X	
Solvents And Petroleum Service Inc.	Syracuse	NYD013277454																X	
<b>NORTH CAROLINA</b>																			
Advanced Environmental Technology	Creedmor	NCD986166338																X	
Ashland Chemical Co.	Charlotte	NCD061263315																X	
Carolina Solite Corporation [AK]	Norwood	NCD003152642					1												
Detrex Corporation	Charlotte	NCD049773245		2															
Ecoflo, Inc.	Greensboro	NCD980842132							X							4		X	
Heritage Environmental Services, Inc.	Charlotte	NCD121700777							X	X	1,7					1,4		X	
Laidlaw Environmental Services (TS), Inc.	Reidsville	NCD000648451														4,5		X	
Oldover Corporation	Norwood	NCD000773655					X											X	
Safety-Kleen Corp.	Charlotte	NCD079060059														4		X	
Safety-Kleen Corp.	Archdale	NCD077840148														4		X	
Safety-Kleen Corp.	Raleigh	NCD000776740														4		X	
Safety-Kleen Corp.	St. Pauls	NCD980846935														4		X	
<b>OHIO</b>																			
Chemical Solvents	Cleveland	OHD980897656		2					X									X	
Chemtron Corp.	Avon	OHD066060609	4	2,4					X									X	
Clean Harbors [Exempt]	Cleveland	OHD000724153								X	1,2,4,7								
CWM Resource Recovery, Inc.	W. Carrollton	OHD093945293		1,2					X									X	
Dayton Water Systems [Exempt]	Dayton	OHD061614673	4																
Detrex Corporation	Euclid	OHD080156702																X	
Envirite Corporation	Canton	OHD980568992							X	X	1,7					5		X	
Environmental Enterprises, Inc.	Cincinnati	OHD083377010							X	X	1-5,7,8	2			1	1,4,5		X	
Environmental Purification Industries [BLR]	Toledo	OHD986983237														5			
Envirosafe Services Of Ohio, Inc.	Oregon	OHD045243706															2		
Hukill Chemical Corporation	Bedford	OHD001926740		1,2					X									X	
Klor Kleen	Cincinnati	OHD980621862																X	
Marmer X-Ray [Exempt]	Cincinnati	OHD047818075	4																
North East Chemical Corporation	Cleveland	OHD980681571							X									X	