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DISCLAIMER

The materials in this document are intended solely for guidance. They are not intended to create any substantive or procedural rights, enforceable by any party in administrative and judicial litigation with the State of New York. The New York State Department of Environmental Conservation (DEC) reserves the right to change or act at variance with these policies and procedures.

REGULATORY BACKGROUND

In 1976, the United States Congress passed the Resource Conservation and Recovery Act (RCRA). The objectives of RCRA are to protect human health and the environment from the potential hazards of waste disposal, to conserve energy and natural resources, to reduce the amount of waste generated, and to ensure that wastes are managed in an environmentally sound manner. RCRA regulates the management of solid waste (e.g. garbage), hazardous waste, and underground storage tanks holding petroleum products or certain chemicals. This federal law sought to control the management of hazardous waste from its point of generation to its ultimate disposal, from “cradle to grave.”

Initially, the focus of RCRA was on large companies which produced the greatest proportion of hazardous waste. Businesses producing less than 1000 kilograms (2,200 pounds) of hazardous waste per month were not required to comply with most of the requirements applicable to larger generators of hazardous waste.

Subsequently, awareness of potential health and environmental problems resulted from mismanagement of hazardous waste from a large number of Small Quantity Generators (SQG) generating between 100 and 1000 kilograms of hazardous waste per month. In 1984, Congress passed amendments to RCRA which expanded the scope of the law to include Small Quantity Generators.

The Clean Air Act is a federal law enacted by Congress to control air pollution on a national level. It requires the EPA to develop and enforce regulations to protect the general public from exposure to airborne contaminants that are known to be hazardous to human health. The Clean Air Act was passed in 1963 and significantly amended in 1970 and 1990.

The Federal Water Pollution Act of 1948 was the first major U.S. law to address water pollution. Growing public awareness and concern for controlling water pollution led to the sweeping amendments in 1972. As amended in 1977, the law became commonly known as the Clean Water Act (CWA).

The United States Environmental Protection Agency (EPA), in response to the federal legislation, adopted regulations for RCRA, The Clean Air Act and the Clean Water Act. To comply with the regulations adopted by the EPA, New York State crafted its own regulations as a delegated state by EPA. The New York State regulations can be found in DEC Public Website at http://www.dec.ny.gov.
INTRODUCTION

This publication has been prepared by the Division of Environmental Permits, Pollution Prevention Unit of the New York State Department of Environmental Conservation. This manual replaces the DEC manual entitled Are You a Small Quantity Generator?, developed in the mid to late 1980's and based on the EPA Small Quantity Generator Manual. The previous manual underwent a number of updates to include New York State air and water regulatory requirements and pollution prevention strategies that were designed to help meet, as well as go beyond, compliance. The changes made were also made in order to help small businesses understand environmental requirements. This manual provides guidance to small businesses that are either Small Quantity Generators or Conditionally Exempt Small Quantity Generators.

Businesses in New York State and all over the world are concentrating their efforts eliminating or minimizing hazardous waste generation. Climbing disposal costs and liabilities associated with hazardous waste have changed how businesses manage waste. As a small business, you should be familiar with the wastes you are generating and how to properly manage them. Preventing waste is better than managing it.

Know Your Business

Many small businesses understand their day-to-day operations, but they may not be familiar with the wastes that they generate or how to properly manage them. By reading this manual, you will have a better understanding of how your business can stay in compliance with DEC regulations. In addition, you will have a better overview of how to manage your wastes. For additional information, see Section IV for a list of technical assistance providers.

Contact the Small Business Environmental Ombudsman (SSEO) for guidance on obtaining an environmental permit or registration and your rights and responsibilities once it is issued. SSEO also assists with complaints between small businesses and local or state authorities. All SSEO services are free and confidential. Call 877-247-2329; e-mail environment@empire.state.ny.us, or visit www.empire.state.ny.us/environment and click on “permitting and compliance assistance.”

If you have business development questions you can call the New York State Department of Economic Development, Empire State Development: 1-800-STATE-NY (1-800-782-8369). For air emission question call the Environmental Facilities Corporation at: 800-780-7227 within NYS, outside NYS 518-402-7462.
STATE HAZARDOUS WASTE REGULATIONS

HOW TO IDENTIFY YOUR HAZARDOUS WASTE

State hazardous waste management regulations apply to most businesses that generate hazardous waste. To find out if these regulations apply to your business, you must first determine if you generate hazardous waste. 6NYCRR Part 371 provides information for the identification and listing of hazardous waste. In addition, your waste may be hazardous if your solid waste is not excluded from regulation under Title 6, Part 371.1(e)(2) of the New York Codes, Rules and Regulations (NYCRR) and meets any of the following criteria:

1. **Listed Wastes** - A waste is hazardous if it is listed in Part 371 of the New York Codes, Rules and Regulations (6NYCRR). There are listed wastes so toxic or reactive in small quantities that they are strictly regulated. These wastes are called Acutely Hazardous Wastes. They include such wastes as used cyanide and strychnine compounds and certain pesticide wastes. Many dioxin-containing wastes are also considered acutely hazardous. Wastes marked with an asterisk in Table 3, on page 38, have been designated as acutely hazardous.

2. **Characteristic Wastes** - If your waste is not listed in 6 NYCRR Part 371, it could still be considered a hazardous waste if it exhibits one or more of the following four characteristics:

   **Ignitability**
   
   It catches fire easily. Ignitable wastes include many organic solvents and some paint wastes and strong oxidizing agents. A liquid waste is ignitable if it has a flash point of less than 60°C (140°F). The waste code for ignitable wastes is D001.

   **Corrosivity**
   
   It dissolves metals and other materials, or burns the skin. Corrosive wastes include waste rust removers, waste acid or alkaline cleaning fluids and waste battery acid. Any liquid that has: a pH of 2.0 or lower or a pH of 12.5 or higher is corrosive. The waste code for corrosive wastes is D002.

   **Reactivity**
   
   It undergoes violent chemical reaction spontaneously or reacts violently with air or water. Reactive wastes include those which can generate toxic gases or vapors. The waste code for reactive wastes is D003.
Toxicity

A waste sample fails the toxicity characteristic leaching procedure (TCLP) analysis if one or all of the 40 substances that were tested exceed the allowable standard set by EPA. This means that the waste tested contains high concentrations of heavy metals or organics. See appendix for a list of substances covered by the TCLP. For a list of certified labs that offer this procedure go to: [http://www.wadsworth.org/labcert/elap/tclp.html](http://www.wadsworth.org/labcert/elap/tclp.html)

3. Mixtures - Mixing a hazardous waste with any material is regulated and may require a hazardous waste Treatment, Storage or Disposal Facility (TSDF) permit unless the mixing process meets an exemption in Part 373-1.1(d)(1). If your waste is a mixture of solid waste and a hazardous waste that is listed in Part 371.4 solely because it exhibits one or more of the characteristics of hazardous waste (on page 2) it is classified as a hazardous waste, unless the waste no longer exhibits any of the characteristics of a hazardous waste. Also, even if the mixture does not exhibit any hazardous waste characteristics, the waste may still be subject to the Land Disposal Restrictions found in 6 NYCRR Part 376.

4. Used Oil - Used oil containing more than 1000 ppm total halogens is regulated as a hazardous waste on the presumption that the oil has been mixed with halogenated hazardous waste listed in 6 NYCRR Section 371.4, including spent chlorinated solvents. Persons may rebut this presumption by demonstrating to DEC that no such mixing occurred. If your used oil contains a listed hazardous spent solvent the whole mixture becomes a hazardous waste and would not be regulated under the used oil regulations. There are other circumstances in which used oil may be regulated as a hazardous waste. If the generator knowingly adds listed hazardous wastes to the used oil, then the used oil mixture is a hazardous waste regardless of the total halogens concentration. Furthermore, the used oil mixture regulations in 6 NYCRR 374-2.2(b) describe the status of other types of used oil mixtures. Persons who are not familiar with the used oil regulations and require assistance in determining whether a mixture is a hazardous waste or used oil should contact the NYSDEC Facility Compliance Section at (518) 402-9543.

Remember

If your used oil is recycled or burned for energy recovery, then you can manage it under the NYS solid waste regulations.

Another way that you can determine if your waste is hazardous is by applying knowledge. (You must have a basis, analytical results, MSDS, etc.) If you are certain that a specific waste that you generate is not a hazardous waste because of your knowledge of this waste, then you can dispose of this waste as a solid waste. However, it is your responsibility to make this determination, and you will be liable for any illegal disposal of hazardous waste.
### Table 1 - Common Small Businesses That Generate Hazardous Waste

<table>
<thead>
<tr>
<th>Business</th>
<th>How Generated</th>
<th>Types of Waste</th>
<th>Waste Codes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vehicle Maintenance and Dismantling</td>
<td>Degreasing, rust removal, paint preparation, spray guns, tank clean out, vehicle servicing, vehicle recycling</td>
<td>Acids/bases, solvents, ignitables, toxics, paints, batteries, heavy metals, mercury</td>
<td>D001, D002, D006, D008, D009, F001-F005</td>
</tr>
<tr>
<td>Dry Cleaning</td>
<td>Commercial dry cleaning processes</td>
<td>Spent filter cartridges, cooked powder residue, waste water</td>
<td>D001, D039, F002</td>
</tr>
<tr>
<td>Printing</td>
<td>Plate preparation, stencil preparation for screen printing, photo processing, printing, cleanup</td>
<td>Acids/bases, heavy metals, solvents, ink, toxic wastes</td>
<td>D002, D006, D008, F001-F005</td>
</tr>
<tr>
<td>Metal Finishing Electronics and Computer Industry</td>
<td>Degreasing, cleaning, pickling, etching, polishing, plating, coating</td>
<td>Acids/bases, industrial wastewater, solvents, heavy metals, baths, cyanides, sludges, ignitables, reactives</td>
<td>F007, F008, F009, F011 F001-F005, F006, F019</td>
</tr>
<tr>
<td>Surface Coating</td>
<td>Degreasing, rust removal, paint preparation, brush cleaning, spray booth, spray guns, paint removal,</td>
<td>Acids/bases, ignitables paint waste, solvents, spent filters, toxic wastes</td>
<td>D001, D002, D006, D008, F001-F005</td>
</tr>
<tr>
<td>Degreasing</td>
<td>Equipment cleaning, rust removal, paint preparation</td>
<td>Acids/bases, ignitables solvents, still bottoms</td>
<td>D001, D002, D006, D008, F001-F005</td>
</tr>
<tr>
<td>Photo Finishing</td>
<td>Photo processing</td>
<td>Acids/bases, silver, wash water</td>
<td>D001, D002, D003, F001-F005</td>
</tr>
<tr>
<td>Pesticide Users</td>
<td>Pesticide application and cleanup</td>
<td>Unused pesticides, rinse water, empty containers</td>
<td>D001, F001-F005, U129, U136, P094, P123</td>
</tr>
<tr>
<td>Educational Institutions</td>
<td>Automobile servicing, metal/woodworking, printing, cleanup, photo processing, lab wastes</td>
<td>Acids/bases, paint wastes, solvents, ignitables, toxics, reactives, inks</td>
<td>D001, D002, F001-F005</td>
</tr>
</tbody>
</table>
COUNTING YOUR HAZARDOUS WASTE

If you generate hazardous waste, it is your responsibility as a generator to determine how much you generate per month as well as the name and type (acute or non-acute) of waste you generate. Once you have identified your waste, you must assign the correct waste code for each waste. Some waste codes are listed in Table 1 and in Section II. The complete list of waste codes can be found in 6 NYCRR Part 371. To determine the quantity of hazardous waste you generate per month, you must identify which wastes must be counted and which can be excluded.

Do Count

You count all quantities of "Listed" and "Characteristic" hazardous wastes that you:

➢ Accumulated on-site for any period of time prior to disposal or recycling;
➢ packaged and transported off-site;
➢ placed directly in a regulated treatment or disposal unit at your place of business; and
➢ generated as still bottoms or sludge and removed from product storage tanks.

Don't Count

You do not have to count wastes that:

➢ Are specifically exempted from counting. Examples include spent lead-acid batteries that will be sent off site for reclamation, scrap metal that will be recycled, used electronics that are recycled, used oil managed under 6 NYCRR Part 360-14, and universal wastes that include NiCd batteries, mercury-containing equipment, fluorescent lamps, and certain pesticides;
➢ may be left in the bottom of containers that have been completely emptied through conventional means, such as pouring or pumping. Containers that held an acute hazardous waste must be thoroughly cleaned; or
➢ are left as residue in the bottom of product storage tanks, if the residue is not removed from the product tank.

To help you identify some of the waste streams common to your business, see Table 1, page 4 which is a list of typical hazardous waste generated by small businesses. If your waste is hazardous, you will need to manage it according to state regulations. Once you have determined that you generate hazardous waste and you have some idea of how to count your wastes, you need to determine what category of hazardous waste generator applies to your business. Your requirements will differ for each category.

The three categories of hazardous waste generators (see Table 2, page 6) are: Conditionally Exempt Small Quantity Generator (CESQG), Small Quantity Generator (SQG), and Large Quantity Generator (LQG).
### Table 2 - Hazardous Waste Generator Categories

<table>
<thead>
<tr>
<th>Generation and Storage:</th>
<th>Category:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Generates no more than 100 kg (220 pounds or approximately 27 gallons) of hazardous waste per calendar month.</td>
<td></td>
</tr>
<tr>
<td>- Generates no more than 1 kg (2.2 pounds) of acute hazardous waste per calendar month.</td>
<td></td>
</tr>
<tr>
<td>- Stores no more than 1,000 kg (2,200 pounds or approximately 275 gallons) of hazardous waste or 1 kg (2.2 pounds) of acute hazardous waste on site at any time.</td>
<td></td>
</tr>
<tr>
<td>- Generates between 100 kg (220 pounds) and 1,000 kg (2,200 pounds) of hazardous waste per calendar month.</td>
<td></td>
</tr>
<tr>
<td>- Generates no more than 1 kg (2.2 pounds) of acute hazardous waste per calendar month.</td>
<td></td>
</tr>
<tr>
<td>- Stores less than 6,000 kg (13,200 pounds or approximately 1,650 gallons) of hazardous waste.</td>
<td></td>
</tr>
<tr>
<td>- Stores no more than 1 kg (2.2 pounds) of acute hazardous waste on site at any time.</td>
<td></td>
</tr>
<tr>
<td>- Generates more than 1,000 kg (2,200 pounds) per month of hazardous waste.</td>
<td></td>
</tr>
<tr>
<td>- Generates more than 1 kg (2.2 pounds) per month of acute hazardous waste; or</td>
<td></td>
</tr>
<tr>
<td>- stores more than 1 kg (2.2 pounds) of acute hazardous waste.</td>
<td>Conditionally Exempt Small Quantity Generator (CESQG)</td>
</tr>
<tr>
<td>- Generates more than 1,000 kg (2,200 pounds) per month of hazardous waste.</td>
<td>Small Quantity Generator (SQG)</td>
</tr>
<tr>
<td>- Generates more than 1 kg (2.2 pounds) per month of acute hazardous waste; or</td>
<td>Large Quantity Generator (LQG)</td>
</tr>
<tr>
<td>- stores more than 1 kg (2.2 pounds) of acute hazardous waste.</td>
<td></td>
</tr>
</tbody>
</table>
CONDITIONALLY EXEMPT SMALL QUANTITY GENERATORS

This category of hazardous waste generators will have the fewest requirements. By using good waste management practices and a little extra effort, your business can generate less waste which could put you in this category of waste generators. In order to be a CESQG, you must meet all of the following conditions:

- Generate no more than 100 kilograms (220 pounds) per month of listed and/or characteristic hazardous waste.
- Generate no more than 1 kilogram (2.2 pounds) per month of acutely hazardous waste.
- Store no more than 1000 kilograms (2,200 pounds) of listed and/or characteristic hazardous waste.
- Store no more than 1 kilogram (2.2 pounds) of acutely hazardous waste.

One 55 gallon drum = about 200 kilograms
1000 kilograms = 2200 pounds ~ 275 gals.
100 kilograms = 220 pounds ~ 28 gals.

If your business is classified as a conditionally exempt small quantity generator, you:

- Must identify all hazardous waste that you generate. Know which of your wastes would be classified as hazardous and the correct waste codes;
- cannot store more than 1000 kg of hazardous waste on-site at any time, but there are no time limits for storage; and
- must ensure delivery of your hazardous waste to a DEC-approved facility that is one of the following:
  - A state or federally permitted hazardous waste management treatment, storage, or disposal facility.
  - Any department-approved facility authorized to manage municipal or industrial solid waste. For example, some landfills will take dry paints and still bottoms.
  - Municipal incinerators may be able to take waste materials such as paint thinners, and some solvent formulations. You must obtain prior approval from these facilities.
  - A facility that uses, reuses, or legitimately recycles the waste. If you are recycling or treating the waste yourself, call DEC at (518) 402-8633 for more information on hazardous waste treatment or recycling.
  - A permitted household hazardous waste collection facility that accepts CESQG waste. (Check with your municipality or call (800) 462-6553.)
  - A universal waste handler or destination facility subject to the universal waste requirements of 40 CFR Part 273. (Universal wastes are wastes such as certain batteries, recalled or collected pesticides, mercury-containing equipment, or fluorescent lamps and ballasts).
Conditionally Exempt Small Quantity Generators have two options for getting their wastes to a disposal facility or a recycler:


2. Your company can legally haul 100 kilograms (220 pounds) of hazardous waste per month to an approved facility within New York State. Some localities have additional requirements.

**Warning**
It is both illegal and dangerous to put hazardous waste in the trash dumpster.

### SMALL QUANTITY GENERATORS

If you are a Small Quantity Generator, you must meet all of the following conditions:
- Generate between 100 kilograms (220 pounds) and 1000 kilograms (2,200 pounds) per month of hazardous waste.
- Generate no more than 1 kilogram (2.2 pounds) per month of acutely hazardous waste.
- Store up to 6000 kilograms (13,200 pounds) of hazardous waste.
- Store no more than 1 kilogram (2.2 pounds) of acutely hazardous waste.

Small Quantity Generators must comply with all of the following requirements:
- Meet storage requirements;
- have an emergency preparedness and response;
- have an EPA Identification Number;
- manifest waste;
- use a licensed transporter;
- have waste sent only to an authorized treatment, storage, or disposal facility; and
- comply with land disposal restrictions.

### Storage Requirements

Small Quantity Generators may store up to 6000 kilograms (13,200 pounds) of listed and characteristic hazardous waste on-site for up to 180 days, or up to 270 days if the waste must be shipped to a treatment, storage, or disposal facility that is located over 200 miles away. Small Quantity Generators may store no more than 1 kilogram (2.2 pounds) of acutely hazardous waste on-site for any length of time.

If a Small Quantity Generator exceeds the 180 or 270 day limit for accumulating waste, the business may request an extension. Extensions of up to 30 days may be granted by DEC if the waste must remain on-site due to unforeseen, temporary, or uncontrollable circumstances.
Small Quantity Generators who store hazardous waste on-site must follow certain common sense rules to protect human health and the environment and to reduce the likelihood of damages or injuries caused by leaks or spills of hazardous wastes.

Small Quantity Generators must comply with the 180-day storage requirements while large quantity generators must comply with the 90-day storage requirements. There is no time limit for Conditionally Exempt Small Quantity Generators, who can store their hazardous waste as long as they do not accumulate more than 1000 kg (2200 lbs).

If you store hazardous waste in containers, you must:
- Clearly mark each container with the words "HAZARDOUS WASTE" and other words that will identify the contents. Also, mark the date on the container when you first started collecting waste in that container.
- Keep containers in good condition, handle them carefully, and replace any leaking ones.
- Never store hazardous waste in containers that could rupture, leak, corrode, or fail in some other way.
- Keep containers closed except when you fill or empty them.
- Inspect containers for leaks and corrosion every week.
- Separate and protect reactive or ignitable waste from sources of ignition or reaction.
- Ensure that the waste being placed in a container will not react with the container itself or with any residue of waste previously held in the container.
- Never store wastes in a container that could react to cause fires, leaks, or other releases.
- Separate by a dike, berm, wall or other device containers of waste which are incompatible with other containers of waste stored nearby.
- Have secondary containment if you are located over a sole source aquifer and store more than 185 gallons (about 700 kilograms) of liquid hazardous waste.

If you store waste in tanks, you must make sure the following requirements are met:
- Never store hazardous waste in a tank if it may rupture, leak, corrode or otherwise cause the tank to fail.
- Uncovered tanks must be operated to ensure at least 60 centimeters (two feet) of space at the top of the tank, unless the tank is equipped with a containment structure, a drainage control system, or a diversion structure with a capacity that equals or exceeds the volume of the top 60 centimeters of the tank.
- Where hazardous waste is continuously fed into a tank, the tank must be equipped with a means to stop the inflow, such as a waste feed cut-off system or a bypass system to a stand-by tank.
- Discharge control equipment must be inspected once each operating day to ensure that it is in good working order.
- Data from monitoring equipment must be gathered once each operating day to ensure that the tank is being operated according to its design.
- To ensure compliance of uncovered tanks, the level of waste in the tank must be inspected once each operating day.
- The tank construction materials must be inspected at least once a week to detect corrosion or leaks from fixtures or seams.
The construction material of discharge confinement structures and the area immediately surrounding discharge confinement structures must be inspected weekly to detect corrosion or obvious signs of leakage.

- Incompatible wastes must not be stored in the same tank.
- Hazardous waste must not be placed in an unwashed tank which previously held an incompatible waste or material.
- If over a sole source aquifer, have secondary containment if you store more than 110 gallons (418 liters) of liquid hazardous waste in underground storage tanks or more than 185 gallons (703 liters) of liquid hazardous waste in above-ground storage tanks.

**Satellite Accumulation Areas**

A generator may accumulate up to 55 gallons of hazardous waste, or 1 quart of acutely hazardous waste, in containers at or near any point of generation which is under the control of the operator of the process generating the waste. You can use a satellite accumulation area without obtaining a permit or interim status, or without complying with the 180-day storage requirements provided the generator:

- Complies with 6 NYCRR Section 373 - 3.9(b)-(d).
- Marks the containers with the words “Hazardous Waste.”
- Labels the containers to identify the contents, (i.e., flammable, reactive).
- Date the containers when full.

If a generator accumulates more than 55 gallons of hazardous waste in a satellite accumulation area, within 3 days, the generator must mark the container holding the excess accumulation of hazardous waste with the date the excess amount began accumulating.

In addition, the quantities stored in satellite accumulation areas need to be counted against the maximum storage quantities. For example, if you are a Conditionally Exempt Small Quantity generator and accumulated 2,150 pounds in your hazardous waste storage area, but have 55 gallons of hazardous waste accumulated in your satellite area, you have just exceeded your storage limits and will be re-classified to a small quantity generator. Practicing good waste management will prevent this.

**Emergency Preparedness and Response**

Small Quantity Generators must comply with the following emergency requirements:

- At least one employee must be designated as the Emergency Coordinator and must be on call or on the premises at all times to coordinate emergency response measures.
- The facility must post the following information next to all telephones in the work place:
  - name and telephone number of the emergency coordinator or designee;
  - location of fire extinguishers and spill control material, and if present, the fire alarm; and
  - telephone number of the fire department, unless the facility has a direct alarm.
Employees must be familiar with proper waste handling and emergency response procedures relevant to their responsibilities during normal facility operation and emergencies.

In the event of a fire, the emergency coordinator or his designee must call the fire department or attempt to extinguish the fire with a fire extinguisher.

In the event of a spill, the emergency coordinator or his designee must attempt to contain the spill and, as soon as is practicable, to clean up any resultant contamination.

In the event of an emergency threatening public health outside the facility or when the generator is aware that a spill has reached surface water, the generator must immediately notify the National Response Center at (800) 424-8802 and NYS Spill Hotline at (518) 457-7362 with the following information:

- The name, address and EPA identification number of the generator;
- the date, time and type of incident;
- the quantity and type of hazardous waste involved;
- the extent of injuries, if any; and
- the estimated quantity and disposition of recovered materials.

**LARGE QUANTITY GENERATORS**

You would be considered a Large Quantity Generator if your business does any of the following:

- Generate more than 1000 kilograms (2,200 pounds) per month of hazardous waste.
- Generate more than 1 kilogram (2.2 pounds) per month of acutely hazardous waste.
- Store more than 6000 kilograms (13,200 pounds) of hazardous waste.
- Store more than 1 kilogram (2.2 pounds) of acutely hazardous waste.

Large Quantity Generators must manifest their waste, obtain an EPA ID number, store hazardous waste no more than 90 days on site, submit biennial reports to DEC, keep records at your site for three years, comply with land disposal restrictions, and comply with export/import requirements for shipping waste.

Guidance for Large Quantity Generators is beyond the scope of this manual. You can obtain a copy of the regulations for Large Quantity Generators at: [http://www.dec.ny.gov/regs/2491.html](http://www.dec.ny.gov/regs/2491.html).
EPA IDENTIFICATION NUMBER

If your business generates more than 100 kilograms (220 pounds) of non-acute hazardous waste in any calendar month, you will need to obtain an EPA Identification Number. Transporters and facilities that store, treat or dispose of regulated quantities of hazardous waste must also have EPA Identification Numbers. These twelve-character identification numbers uniquely identify hazardous waste generators, transporters, and treatment, storage, or disposal facilities (TSDFs). They allow tracking of hazardous waste from its point of origin to its ultimate point of disposal.

An EPA Identification Number is issued based on the submitted Notification of Regulated Waste Activity form (EPA Form 8700-12).

Notification of Regulated Waste Activity Instructions and assistance with EPA Form 8700-12 are provided on line at: http://www.epa.gov/osw/inforesources/data/form8700/forms.htm. To get a copy of the booklet and form directly on line you can access it from EPA’s website at: http://www.epa.gov/osw/inforesources/data/form8700/8700-12.pdf

The booklet’s instructions will assist you in obtaining an EPA Identification Number by completing and submitting the EPA Form 8700-12 for initial notifications; the instructions will also assist you in revising your Site ID Form information if you are required to submit a subsequent notification. A section is included with definitions for RCRA terms. The appendices list typical waste streams produced by small quantity generators, provide the EPA Hazardous Waste Numbers for typical waste streams and provide the complete list of EPA Hazardous Waste Numbers (Codes).
THE MANIFEST SYSTEM

The hazardous waste manifest is a multi-copy shipping document that you must fill out and use to accompany your hazardous waste shipments. These forms can be obtained from printers approved by the EPA to print these forms. A list of these approved printers can be found on the EPA’s website at: http://www.epa.gov/osw/hazard/transportation/manifest/registry/printers.htm. Hazardous waste manifest forms are not available from DEC.

All generators, except Conditionally Exempt Generators, must manifest their hazardous waste shipments. The manifest form is designed so that shipments of hazardous waste can be tracked from their point of generation to their final point of disposal.

To track each shipment, New York State requires the generator to mail a copy of the manifest form to the State when the shipment leaves their site. The receiving facility also mails a copy of the manifest form to the State when the waste arrives at their facility for management. The State, through a computer system, can match up these two manifests, documenting that the hazardous waste was safely transported to its destination.

Since 1980, this manifest information from hazardous waste transportation has been entered into a computer system where the data from the manifests is maintained and hazardous waste tracking is accomplished. The original manifest forms are scanned into an electronic image storage system to maintain a permanent document record.

Manifest data and images are used by DEC personnel and law enforcement officials for enforcement of federal and state hazardous waste and transportation regulatory requirements. Other uses include auditing special assessments, hazardous waste regulatory fee programs and annual hazardous waste reports.

Additionally, DEC has a webpage that provides training slides to explain EPA's federal hazardous waste manifest form which must be used nationwide to track hazardous waste shipments. This information is presented at workshops conducted by DEC in October and November of each year. For additional information on manifest procedures see: http://www.dec.ny.gov/chemical/60805.html

All hazardous waste manifest forms and related correspondence should be mailed to:

NYS Department of Environmental Conservation
Division of Environmental Remediation
Manifest and Reporting Section
625 Broadway, Floor 12
Albany, NY 12233-7252

Generators must submit Hazardous Waste Manifest Forms to DEC. The federal mandated manifest form has six sheets. This means that the waste generator will need to make additional copies of the manifest form. They will need to make copies for "Generator State - Mailed by Generator" and "Disposer State - Mailed by Generator" as necessary and submit them to the
Generator or Disposer State. For a sample of the Hazardous Waste Manifest form go to: http://www.epa.gov/osw/hazard/transportation/manifest/pdf/newform.pdf

Additionally, if a TSDF rejects a waste shipment back to the original generator or rejects-on to a secondary TSDF, the generator or secondary TSDF will sign Block 18c to certify receipt of the rejected waste. Once signed in Block 18c, a copy of this form also needs to be submitted to DEC.

Hazardous Waste Manifest forms submitted to DEC must be postmarked within 10 days of waste shipment for the generator and within 10 days of waste receipt for TSDFs.

Manifest Section Contact Information
Phone: (518) 402-8730
Fax: (518) 402-9722
E-Mail: manifest@gw.dec.state.ny.us

It is important to remember that just because you have shipped the hazardous waste off your site and it is no longer in your possession, your liability has not ended. You are potentially liable for any mismanagement of your hazardous waste.

Manifesting Exemption

You are exempt from manifesting requirements as a generator (6NYCRR Part 372.2(b)(7), if your facility enters into a contractual agreement with a waste hauler, where the waste hauler is reclaiming the waste in which:

- The type of wastes and frequency of shipments are specified in the agreement;
- the vehicle used to transport the waste to the recycling facility and to deliver the regenerated material back to the facility are owned and operated by the reclaimer;
- the reclaimer complies with all Part 364 waste hauler permit requirements; and
- the generator keeps records of the hazardous waste codes, quantity of waste shipped, and the date the waste was shipped for each shipment; and
- the generator maintains a copy of the reclamation agreement on file for a period of at least three years after termination expiration of the agreement.
LICENSED TRANSPORTER

Transporters of hazardous waste in New York State must possess Part 364 Waste Transporter Permits and may only transport hazardous wastes to TSDFs that are authorized to accept hazardous waste. Since generators of hazardous waste may be held responsible for mismanagement of their waste after it has left their premises, it is advisable for generators to ensure that they use only duly authorized transporters and TSDFs.

If you want to find out if your transporter is permitted, contact the Waste Transporter Permit Section of the DEC at (518) 402-7020. Personnel will be able to provide you with computer generated listings of currently permitted waste transporters and the types of waste they are authorized to transport. You should contact the hauler and the TSDF to verify that they have EPA Identification Numbers and that they can and will handle your waste. Also, make sure that they have current permits, adequate insurance, and that the hauler's vehicles are in good condition. Choosing a transporter and a TSDF may take some time; therefore try to begin your search well ahead of the time you will need to ship your waste.

When you prepare hazardous waste for shipment, you must put the waste in containers acceptable for transportation. Make sure the containers are properly labeled and in compliance with applicable NYSDOT regulations.

Part 364 transporters must meet certain conditions in order to receive a DEC permit, which is renewed annually. For instance, they must maintain a certain amount of liability insurance to cover cleanup of spills or accidents, and each permit specifies the types of waste that can be hauled and where the wastes may be hauled.

Many businesses use brokers to arrange the details of transportation and disposal of their hazardous waste. The broker may be independent; in other cases, the transporter or the TSDF acts as a broker. Using a broker may facilitate waste disposal. However, as the generator of the waste, you retain responsibility for its transportation and treatment or disposal. When dealing with brokers, it remains your responsibility to ensure that:

- You have written communication from the ultimate designated treatment, storage or disposal facility for the particular wastes being offered for shipment stating that the facility is authorized and has the capacity to accept the hazardous waste set forth on the manifest and that the facility will assure that the ultimate disposal method is followed;
- you have written communication that the designated transporter is authorized to deliver the waste to the facility on the manifest;
- copies of the manifest are distributed as shown on the New York State manifest form. When an out-of-state manifest does not have sufficient sheets for full notification of shipment and receipt, make additional copies; and
- your shipment papers contain the notifications and certifications required by the federal and state land disposal restrictions. (See page 16 – land disposal restrictions).

Keep In Mind
Small Quantity Generators cannot transport their own waste.
In order to ensure that your waste is handled properly, you should also consider requesting the following information or taking the following steps:

- Request copies of all waste analyses done on samples of your wastes.
- Request a certificate of treatment or disposal for the waste from the ultimate disposal facility; this should be consistent with the method shown on the manifest or the exception report.
- Call the DEC office in your region (see Section IV, page 43) on a periodic basis to verify that the transporter and treatment or disposal facility have the proper waste handling permits.
- When the hauler arrives at your site to pick up your wastes, ask to see a copy of his or her Part 364 permit. Licensed 364 haulers must keep a copy of the permit in each truck. Look for the following information on the permit, which should be consistent with the information on the manifest:
  - license plate number of the vehicle;
  - expiration date of the permit;
  - types of wastes that can be hauled; and
  - facilities to which the hauler can take your waste.
- Check with the Better Business Bureau or Chamber of Commerce to see if there are records of complaints or problems against the hauler or treatment facility. Your colleagues or associates may also have information about haulers or treatment facilities in your area.

**LAND DISPOSAL RESTRICTIONS**

New York State has adopted Land Disposal Restrictions (LDRs) that Congress passed into law in 1984. The LDR program requires that the waste is treated to reduce the hazardous constituents to levels set by EPA, or that the waste is treated using a specific technology before being disposed to land. Most SQGs have their designated treatment, storage, or disposal facility responsible for this treatment. If you choose to treat or recycle your waste yourself to meet LDR treatment standards, you must meet requirements for a waste analysis plan. Some examples of wastes that must be treated include used solvents, metal wastes, cyanide-containing wastes, and other types of hazardous wastes. Call DEC before you treat any hazardous waste.

Since November 1988, unless specifically exempt or excluded, Small Quantity Generators that generate more than 100 kilograms (220 lbs) of hazardous waste in any calendar month have been affected by the federal LDR requirements.
**Notification/Certification to Treatment, Storage or Disposal Facility**

The notification must include the hazardous waste code for each waste, any subcategories, the manifest number, the treatability group (wastewater or non-wastewater), and the regulated hazardous constituents or underlying hazardous constituents of certain wastes associated with the waste shipment. The certification must include the same information as a notification, as well as a signed certification.

**Record Keeping**

Maintain the following for at least three years:
- Waste analysis records.
- Notifications/certifications to treatment, storage and disposal facilities, waste analysis data, if available, tolling agreement (reclamation exemption) and any other documents associated with your waste management.
- Any constituent monitoring.

A laboratory analysis is not necessary if the contents are known, and waste can be classified by a generator's knowledge. (Generator’s knowledge must be verifiable). An analysis may be necessary initially, but not every time waste is generated.

If a broker, hauler or facility handles your paperwork for you, use the above section as a checklist to ensure that all LDR requirements are met. Keep copies of all paperwork that you sign.

**EXCLUSIONS OR RECLAMATION EXEMPTIONS**

There are certain exclusions or reclamation exemptions that apply to certain hazardous wastes that are generated.

**Reclamation Exemption**

Materials that are regenerated or processed to recover a useable product may be excluded from being a hazardous waste. Hazardous wastes that are destined for reclamation generally do not need to be counted unless they qualify for a specific inclusion.

If you are a SQG, you do not have to manifest wastes that are designated for reclamation if you enter into a contractual agreement with the reclaimer and abide by the following:
- The type of waste and frequency of shipments are specified by the generator and reclaimer.
- The vehicle used in transporting the waste is owned and operated by the reclaimer.
- The reclaimer complies with 6 NYCRR Part 364 waste transporter requirements.
- The generator records the hazardous waste codes, the quantities shipped, and the shipment dates.
- The generator keeps a copy of the reclamation agreement for at least three years after termination or expiration of the agreement.
Transporters servicing Small Quantity Generators need not manifest their shipments, provided that the transporter also abides by the five requirements listed above. In addition, the transporter must carry these records when hauling waste to the reclamation facility as well as record the generator’s EPA Identification Number, if required.

Similarly, this exemption extends to TSDFs accepting waste for reclamation. TSDFs may accept from SQGs waste not manifested for reclamation if the waste is being reclaimed in accordance with a contractual agreement. The TSDF must record the name, address and EPA Identification Number of the generator along with the quantities, waste types, and shipment dates. The TSDF must retain these records for three years after expiration or termination of the agreement. Lastly, the TSDF must submit quarterly summaries to DEC stating what wastes were accepted for reclamation. Forms can be sent to:

NYS Department of Environmental Conservation  
Division of Environmental Remediation, Manifest and Reporting Section  
625 Broadway  
Albany, NY 12233-7252.

**Universal Waste Rule**

To streamline the hazardous waste regulations for wastes that are generated by large numbers of sources (batteries, pesticides, mercury-containing equipment and lamps) in relatively small quantities, USEPA issued the Universal Waste Rule in 1995. The Universal Waste regulations govern the collection and management of these widely generated wastes. These regulations were designed to reduce the amount of hazardous waste items in the municipal solid waste stream; encourage the recycling and proper disposal of some common hazardous wastes; and reduce the regulatory burden on the regulated community. Universal wastes are generated in a wide variety of settings including households, schools, office buildings, and medical facilities, in addition to the industrial settings usually associated with hazardous wastes. Universal wastes include such items as hazardous batteries, hazardous mercury-containing equipment, certain pesticides, and hazardous lamps. Although handlers of universal wastes must meet less stringent standards for storing, transporting, and collecting wastes, the wastes must comply with full hazardous waste requirements for final recycling, treatment, or disposal. Managing waste under the Universal Waste Rule helps remove these wastes from municipal landfills and incinerators, which provides stronger safeguards for public health and the environment. Items included under the Universal Waste Rule include:

- **Batteries** - Batteries included are nickel-cadmium (Ni-Cd), lithium, and small sealed lead-acid batteries, which are found in many common items in the business and home, including electronic equipment, mobile telephones, portable computers, and emergency backup lighting.
- **Mercury-containing equipment** - Thermostats, thermometers, barometers, and mercury switches.
- **Pesticides** – Agricultural pesticides that are recalled under certain conditions and unused pesticides that are collected and managed as part of a waste pesticide collection program.
Pesticides may be unwanted for a number of reasons, such as being banned, obsolete, damaged or no longer needed due to changes in cropping patterns or other factors.

- **Hazardous lamps** - Examples of common universal waste hazardous lamps include, but are not limited to, fluorescent lights, high intensity discharge, neon, mercury vapor, high pressure sodium, and metal halide lamps. Many used lamps are considered hazardous wastes under the Resource Conservation and Recovery Act (RCRA) because of the presence of mercury or occasionally lead.

### Requirements for Universal Waste

If your waste includes hazardous batteries, pesticides, mercury-containing equipment, or lamps, you must decide whether or not you will manage them as universal waste. You may choose between traditional hazardous waste regulations or universal waste rule standards. However, flip-flopping between the two sets in order to avoid meeting requirements of one or both sets of regulations is not allowed. For example, storage time limits exist for both management scenarios. Flip-flopping between regulations will not extend storage time.

If you decide to manage these wastes under the traditional hazardous waste regulations, you must count them in determining whether you are a CESQG, a SQG or a LQG. They must also be reported on the generator annual report if you are required to file an annual report.

If you decide to manage these wastes under the Universal Waste Rule then these wastes are not counted for the purpose of determining generator category, need not be reported on your hazardous waste report, and are not counted for regulatory fee purposes.

### Proper Handling and Storage of Universal Waste

If your facility manages any of the above mentioned universal wastes at your site, then you are either a small quantity handler or a large quantity handler of universal waste. A small quantity handler of universal waste is any facility that accumulates less than 5,000 kg (11,000 lbs) of total universal wastes on site at any time. Requirements include packaging in a way to minimize breakage; immediately cleaning up any leaks or spills; properly labeling each lamp or container; provide employee training; and must assure universal wastes are only taken to another universal waste handler, authorized destination facility, or foreign destination. A large quantity handler of universal waste accumulates 5,000 kg (11,000 lbs) or more of total universal wastes on site at any time. Requirements include all the small quantity handler requirements plus EPA notification; record keeping and reporting requirements. Both large and small quantity handlers can store universal waste up to one year on site.

Universal waste transporters must meet applicable DOT standards; comply with record keeping and reporting requirements; and comply with applicable requirements of 6 NYCRR Part 364 (waste transporter permits) if transporting more than 500 lbs of total universal waste in any shipment. Small or large quantity handlers may self-transport universal wastes in quantities less than 500 pounds of total universal waste without a waste transporter permit. Similarly, common carrier can transport up to 500 lbs of universal waste in any shipment without a permit as well.
Destination facilities must comply with all applicable requirements of 6 NYCRR Parts 370 through 374-3 and 376, including notification of hazardous waste activity and obtaining a Part 373 hazardous waste permit, if applicable.

**Regulatory Requirements for Fluorescent Lamps**

Currently, most waste fluorescent bulbs are hazardous wastes due to their mercury content. Other examples of lamps that, when spent, are commonly classified as hazardous waste include high-intensity discharge, neon, mercury vapor, high pressure sodium and metal halide lamps. The U.S. Environmental Protection Agency (USEPA) added hazardous waste lamps to the Universal Waste Rule (64 FR 36465 -36490) in 1999, and DEC adopted these regulations on March 15, 2002. Handlers of hazardous waste lamps are able to choose between handling their lamps under the traditional hazardous waste regulations or universal waste rule standards. However, once you declare your lamps universal wastes, you must continue to handle them as universal wastes. Jumping back and forth between the traditional RCRA approach and the Universal Waste Rule in order to avoid any requirements is prohibited.

Requirements for both small and large quantity handlers have been noted in the requirements for universal waste.

More information on handling of fluorescent lamps and universal wastes can be found on the DEC web site at: [http://www.dec.ny.gov/chemical/8787.html](http://www.dec.ny.gov/chemical/8787.html). You can also contact the Training and Technical Support Section of the Division of Environmental Remediation at (518) 402-9543.

**Requirements for Fluorescent Bulb Crushers**

Lamps being managed under the universal waste rule may not be crushed. If you wish to crush your lamps, you will need to manage the lamps under the traditional hazardous waste regulations. This will require that you count the weight of the lamps toward determining hazardous waste generator category, and you will be required to meet applicable generator, transporter and transfer facility standards. Crushing is considered a form of hazardous waste treatment, and under ordinary hazardous waste generator regulations, hazardous waste lamps may only be crushed if the process is exempt from hazardous waste treatment regulations (6 NYCRR 373-1.1(d)(1)). The common exemptions that might be used are the on-site treatment by a Conditionally Exempt Small Quantity Generator; the first step of a recycling process, if the lamps will be directed to a mercury recycler; or the treatment in the tank or container in which the lamps are being stored. The crushed lamps are usually considered hazardous waste for mercury, and sometimes for lead, and must be handled and disposed of via normal hazardous waste requirements. Generators who wish to use one of the latter two exemptions should seek specific guidance from the DEC Technical Determination Section at (518) 402-8633.
Scrap Metal Exemption for Used Electronics

Most discarded electronics that would qualify as hazardous waste (e.g., computer monitors) are considered to contain sufficient quantities of scrap metal parts that they can be regarded as scrap metal themselves, and, thus, would be exempted from regulation (scrap metal exemption) as hazardous waste. The following conditions must be met:

- Prior Notification [6 NYCRR 371.1(c)(7)]: If the generator is not a CESQG, both the generator and subsequent handlers in the recycling process in New York State are required to submit a "c7" notification to DEC. The "c7" notification gives certain basic information, such as the locations of generating and receiving facilities. Although written concurrence from DEC is not required, DEC will provide one upon request (provided the electronics item, in fact, qualifies for the exemption).
- Scrap metal must ultimately be recycled. The scrap metal exemption requires that scrap metal pieces actually be reclaimed from the hazardous electronics and that they are recycled.

Note that the scrap metal exemption cannot apply to a part separated from the whole component unless that separated part independently contains scrap metal pieces that will ultimately be reclaimed. For example, an all-plastic case that was separated from a computer monitor could no longer qualify for the scrap metal exemption, nor could cathode ray tube (CRT) glass, once the scrap metal pieces have been separated from the glass. An item which qualifies as hazardous scrap metal is still a hazardous waste. It is merely exempted from regulation.
MOST COMMON HAZARDOUS WASTE VIOLATIONS

1. 373-3.9(d)(3): Failure to mark containers holding hazardous waste with the words ‘Hazardous Waste’ and ‘other words’ to identify their contents. [SQG, LQG]

2. 372.2(a)(8)(iii)(d): Failure to mark containers holding hazardous waste with ‘start of accumulation’ date. [SQG]

3. 372.2(a)(8)(ii): Same as #2 but for an LQG.

4. 373-3.9(d)(1): Failure to keep containers holding hazardous waste closed during storage, except when it is necessary to add or remove waste. [SQG, LQG]

5. 372.2(b)(2)(i): No written communication from the designated TSD that they are authorized to handle the particular waste on the manifest. [SQG, LQG]

6. 372.2(b)(2)(ii): No written communication from the transporter that they are authorized to deliver the manifested waste to the designated TSD. [SQG, LQG]

7. 372.2(a)(2): Failure to make a hazardous waste determination on solid waste generated at a facility. [CESQG, SQG, LQG]

8. 372.2(a)(8)(iii)(e)(2): Failure to post the following information next to the telephone: name and telephone number of the emergency coordinator, location of fire extinguishers, spill control equipment and, if present, fire alarm; and telephone number of the fire department, unless the facility has a direct alarm. [SQG]

9. 374-3.2(e): Failure to mark Universal Waste as required. For example: Universal Waste Lamps. [Applies to a Small Quantity Handler or Universal Waste]

10. 374-3.3(e): Same as #9 but applies to a Large Quantity Handler.

11. 374-3.2(f): No method for determining how long Universal Waste has been stored on-site. [Applies to a Small Quantity Handler]

12. 374-3.3(f): Same as #11 but applies to a Large Quantity Handler.
WATER REGULATIONS

INTRODUCTION

Most small businesses generating waste discharge wastewater to a sanitary sewer system owned by a municipality. The municipality treats the wastewater at a publicly-owned treatment works (POTW). The DEC issues a permit to the POTW which includes a list of pollutant and discharge limits. The discharge limits are based on the receiving water body’s stream classification.

If your business discharges wastewater to a POTW, your business is “an indirect discharger.” You should contact the POTW and ask about their pretreatment program requirements.

If your business discharges wastewater directly to a water body, you will need a permit from the DEC. Contact the DEC Division of Water for more information.

The Division of Water is responsible for such programs as:
- nonpoint source management;
- Great Lakes and estuaries;
- studies and assessments of lakes;
- water quality standards;
- sewage treatment plant operators training and certification;
- reviewing and issuing discharge permits;
- coastal erosion management; and
- flood control structures and dam safety.

BEST MANAGEMENT PRACTICES (BMPs)

Best management practices (BMPs) are recognized as an important part of the Clean Water Act’s permitting process to prevent the release of toxic and hazardous chemicals. Best management practices are considered to be pollution prevention practices. By focusing on good housekeeping and good management practices, BMPs will avoid leaks, spills, and improper waste disposal into our waters. BMPs will vary for each facility depending upon site characteristics, industrial processes, and pollutants. For more information on how you can develop a BMP at your facility, call the Division of Water at the number listed in Section IV.

PRETREATMENT PROGRAM

Many industries discharge their wastewater to municipal wastewater treatment plants, rather than directly to a receiving body of water. These industries are called indirect dischargers. EPA regulations require municipal treatment authorities that receive industrial wastewater from indirect dischargers to have pretreatment programs to control indirect discharges. These municipal authorities manage significant indirect discharges through permit programs similar to DEC’s State Pollutant Discharge Elimination System (SPDES) Permit program.
The objectives of these programs are to prevent pollutants that are incompatible with municipal sewage treatment plants from:

- interfering with municipal treatment plant operation;
- passing through municipal treatment plants; and
- limiting municipal sludge recycling and reclamation.

Local pretreatment programs have considerably reduced incompatible pollutants in New York municipal sewage treatment plants. EPA Region 2 implements the pretreatment program component of the National Pollutant Discharge Elimination System (NPDES) permit in New York. In New York State there are 58 approved local industrial pretreatment programs, which regulate 1100 significant industrial users and over 40 categorical industrial users which are under direct supervision of the USEPA.

If your business discharges wastewater to anything other than a sewer system, you may be in violation of the Clean Water Act. Discharging to the waters of the state without a SPDES permit may result in costly fines to your business. If you discharge to a municipal wastewater treatment plant, check with that municipality for their pretreatment requirements.

**NONPOINT SOURCE PROGRAM**

In addition to direct (point source) discharges, the waters of the state can also be polluted by non-point source pollution. Types of non-point source pollution can include: inactive hazardous waste sites, leaking above ground or underground storage tanks, remediation of contaminated sediment, septic systems, and storm water management.

**Storm Water Discharges**

Storm water is a major cause of water pollution in New York State. A common misconception about storm sewers is that they go to a wastewater treatment plant. Storm sewers often transport storm water directly to the nearest river, lake, stream, wetland or groundwater recharge basin. Federal regulations published on November 16, 1990, have broadened the scope of activities that require discharge permits. Storm water discharges associated with an industrial activity and certain municipal systems with separate storm sewer discharges require a storm water discharge permit. Storm water associated with industrial activity means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing or raw material storage areas at an industrial plant. As defined in 40CFR section 122.26(b)(14), storm water permits are required for:

- Construction activities;
- hazardous waste treatment or storage facilities;
- solid waste management facilities;
- facilities involved in the recycling of materials, including metal scrap yards, battery reclaimers, salvage yards, and automobile junkyards;
- electric power generating facilities;
- transportation facilities;
- sewage treatment works; and
- certain Standard Industrial Classification (SIC) Codes that are assigned to businesses.
General SPDES Permits

Many industries have storm water discharges already included in their SPDES permit, along with their other discharges. Some businesses that do not operate under a SPDES permit may need to obtain an individual SPDES permit for storm water, also known as a General SPDES Permit. The storm water General SPDES permit requires dischargers to develop pollution prevention plans, implement them and keep them up to date. The plan must include best management practices to be used to control the pollutant load in storm water discharges to state waters. For more information on the SPDES storm water permits go to: http://www.dec.ny.gov/about/859.html
AIR REGULATIONS

INTRODUCTION

This section of the manual will give a brief overview of the air regulations pertinent to businesses that generate hazardous waste. For more in-depth explanations of all the air regulations, we suggest that you contact your DEC regional office, or one of the technical assistance organizations listed in Section IV of this manual.

In New York State the air regulations may vary from region to region and distinguish between the New York City Metropolitan Area and upstate New York. The New York City Metropolitan Area consists of New York City, Rockland, Nassau, Suffolk, Westchester, and Lower Orange County (Towns of Blooming Grove, Chester, Highlands, Monroe, Tuxedo, Warwick, and Woodbury).

Many small businesses are subject to requirements as a result of the 1990 Federal Clean Air Act Amendments. Depending on the amount of air emissions your facility discharges, you may be required to obtain a Title V Permit, State Facility Permit or Minor Facility Registration. Some businesses subject to these regulations:

- Surface coating or painting operations;
- degreasing and parts cleaning operations;
- metal finishing or plating operations;
- air conditioning repair operations;
- graphic arts/printing operations;
- petroleum bulk storage;
- chemical formulation;
- process air emissions;
- auto body shops; and
- dry cleaners.

VOLATILE ORGANIC COMPOUNDS (VOCs)

Volatile organic compounds (VOCs) produce photochemical reactions in the atmosphere and are regulated by DEC in order to reduce ground-level ozone. Some solvents and degreasers, such as trichloroethylene, methyl ethyl ketone and more common solvents like toluene and xylene are VOCs. However, some of these solvents, such as benzene, are going to be regulated because of their effects to human health, not because they will produce ground-level ozone.

PERMITTING REQUIREMENTS

DEC’s air quality permit and registration program are outlined in 6 NYCRR Part 201. New York State has a three-tier air permitting system:

- Minor Facility Registration – This applies to facilities with low emission levels. Sources that are subject to regulation for volatile organic compounds (VOCs), such as printing and surface coating operations, and existing sources subject to New Source Performance Standards (NSPS) or National Emission Standards for Hazardous Air
Pollutants (NESHAP), whose actual air emissions are less than half of the major source thresholds, are eligible. Registration is valid for the life of the stationary source and is not subject to a renewal process.

- **State Facility Permit** - This permit applies to those sources requiring an emissions cap below major source thresholds. Also, new minor facilities that are subject to NSPS and NESHAPs must obtain this permit. This would include new sources such as dry cleaners, chrome plating processes, and halogenated solvent degreasing operations. The permit application requires a significant amount of detail about the process being permitted. State facility operating permits do not expire but may need to be modified if a facility process or emissions change.

- **Title V Permits** - This permit is intended for major sources of air pollution and requires the applicant to identify each applicable federal and state requirement.

As a rule of thumb, it is always a good idea to maintain records of all your VOC emissions.

**EXEMPTIONS**

When DEC revised its permitting rule under Part 201 in July 1996, it increased the number of exempt activities from 37 to over 100. Many small businesses are eligible for the exemptions, including:

- Graphic arts facilities located outside the New York City Metropolitan Area with VOC emissions that do not exceed 20 pounds per day;
- screen printing inks, coatings, and adhesives (containing VOCs) that are applied by a hand-held squeegee;
- surface coaters and related operations located outside the New York City Metropolitan Area and Lower Orange County that use less than 25 gallons combined of paints and solvents per month, only if the operation is conducted in an enclosed building where such operations are exhausted into an appropriate emission control device;
- powder coating operations;
- paint and solvent storage rooms;
- aqueous parts cleaning equipment; and
- most maintenance and construction activities; (i.e. welding, sandblasting).

**REGULATION OF HAZARDOUS AIR POLLUTANT EMISSIONS**

Regulations controlling emissions of Hazardous Air Pollutants (HAPs) are found in 40CFR Part 63 National Emission Standards for Hazardous Air Pollutants (NESHAP). Congress established a list of HAPs under Title III of the Clean Air Act Amendments of 1990 (CAA). Title III required the EPA to determine which industrial categories were classified as major and area (non-major) sources of HAP emissions, and publish a list of these source categories within 12 months after the date of enactment of the Clean Air Act. EPA was then given 10 years to develop and promulgate regulations requiring that Maximum Achievable Control Technology (MACT) be applied to control HAP emissions from each of these source categories.
CHEMICAL AND PETROLEUM STORAGE

TANK REQUIREMENTS

Tanks storing petroleum and hazardous chemicals must meet minimum standards established by the USEPA and the DEC. New York's Bulk Storage Programs provide guidelines and controls for the storage of petroleum and many different hazardous chemicals.

Improper handling and storage of petroleum and hazardous chemicals can result in leaks and spills and pose a serious threat to the quality of the environment. Petroleum, additives and a variety of industrial chemicals have been discovered in many of the State's groundwater supplies. In some wells, only trace quantities have been discovered; in others, levels have exceeded federal and State drinking water standards. Hundreds of drinking water supplies have been closed because of excessive contamination.

Water contamination is only one consequence of poor handling practices. Mismanagement of some substances may pose occupational hazards, such as a potential for fire or explosion risk that may result in a release of odors or fumes with serious public health and environmental consequences to the neighboring community.

Gasoline, which fuels the millions of automobiles we all drive each day, is highly flammable and can flash violently when ignited. Gasoline and many other hazardous chemicals when inhaled can cause drowsiness, nausea and other adverse health effects.

Once a chemical soaks into the ground, it disperses and may dissolve and contaminate a water supply for many years. Cleanup is often difficult and it is usually expensive.

When it comes to handling hazardous materials, there is truth in the old saying - "An ounce of prevention is worth a pound of cure." For every dollar spent on preventing a spill, many dollars are saved in cleanup cost and damages.

New York State prevents leaks and spills at petroleum and chemical storage facilities through the Bulk Storage Program managed by DEC. The Bulk Storage Program is based on four laws. Three are state laws that require DEC to develop and enforce standards for storage and handling of petroleum and chemical products and to regulate aboveground and underground tanks storing these products. New York State four regulatory programs are:

- Petroleum Tanks
- Chemical Tanks
- Major Oil Storage Facilities – These facilities are not covered in this manual.
- Federal Underground Tank Regulations - This program is based on a federal law amending RCRA (Subtitle I) requiring the EPA to regulate underground storage tanks (USTs). Under the memorandum of understanding with EPA, DEC assists in the regulation and inspection of approximately 20,000 underground tanks covered by Subtitle I, provides education to tank owners and encourages compliance with federal regulations.
Chemical Tanks

Article 37 of the Environmental Conservation Law requires DEC to regulate all substances covered by the Federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), and Federal Toxic Substances Control Act (FTSCA). DEC may also regulate other chemicals known to be hazardous. Article 40 of the Environmental Conservation Law, Hazardous Substances Bulk Storage Act, regulates the sale, storage and handling of hazardous substances.

The Chemical Bulk Storage Regulations (6NYCRR Parts 595-599) cover:

- Over 1,000 listed substances;
- requirements for release reporting, response and corrective action;
- requirements for chemical manufacturers/distributors to supply buyers with guidance on proper storage and handling of chemicals and to file the guidance with DEC;
- new storage equipment (tanks, pipes, transfer stations and associated equipment); and
- tank and pipe testing and inspection requirements.

Regulation (6 NYCRR 598.7(d)) requires a five-year inspection of all aboveground storage tanks (ASTs) and piping. Owners/operators are required to inspect ASTs and piping systems on a five-year cycle. A shorter cycle is required when a tank or pipe is thinning at a rate of one millimeter per year or greater or when the expected remaining useful life (as determined by inspection) is less than ten years. In either scenario, the inspection shall be performed at half the remaining useful life of the tank or pipe, but not to exceed a five year period. The regulation requires that the inspection be consistent with a consensus code, standard or practice that is developed by a nationally recognized association or independent testing laboratory and meet the specifications of 6 NYCRR 598.7(d).

DEC has set up policy, DER-16: Five-Year Inspection of Plastic Tanks, to provide guidance on the evaluation of homogeneous plastic tank systems. Homogeneous plastic tanks are tanks that are molded in one-piece seamless construction using a single plastic material. This excludes tanks constructed of fiberglass.

Currently there is no inspection consensus code, standard or practice that has been developed by a nationally recognized association or independent testing laboratory for plastic tanks. In recognition of this, DEC provides guidance on the inspection of plastic tanks. See: http://www.dec.ny.gov/regulations/38102.html

**Important past due deadlines are:**

- By August 11, 1996, owners were required to develop and keep up-to-date a plan for spill prevention. This is called a spill prevention report or "SPR." For a copy of the document *How to Prepare a Spill Prevention Report for a Chemical Bulk Storage Facility* go to: [www.dec.ny.gov/docs/remediation_hudson_pdf/der26.pdf](http://www.dec.ny.gov/docs/remediation_hudson_pdf/der26.pdf)
- By December 22, 1998 underground tanks and piping systems were required to be replaced with double-walled systems.
- By December 22, 1999 aboveground tanks and transfer stations were required to have secondary containment and be upgraded to meet State standards.
- By December 22, 1999 non-stationary tanks were required to be stored in dedicated areas with spill containment.
- The transfer of hazardous substances is prohibited if the facility is unregistered or where the manufacturer/distributor fails to provide buyers with recommended practices and guidance on proper methods for storage and handling of such substances.

**The following are some definitions to keep in mind.**

"Aboveground tank" means any stationary tank with a capacity of 185 gallons or more which is not entirely covered with earth or other backfill material, or any stationary tank with a capacity of 185 gallons or more which can be inspected in a subterranean vault.

"Underground storage tank" means any tank or other vessel used for the storage of a hazardous substance which is completely covered with earth or other backfill material. Tanks in subterranean vaults accessible for visual inspection are considered aboveground tanks for the purposes of these regulations.
Petroleum storage tanks are regulated by state law under Article 17, Title 10, and DEC regulations 6NYCRR 612-614. Both underground storage tanks (USTs) and above ground storage tanks (ASTs) are covered by these regulations. Nassau, Suffolk, Rockland, Westchester and Cortland Counties have been delegated by DEC to administer the program. These counties may have more stringent requirements than the State. If your business is located in one of these counties, contact the county to learn of specific local requirements.

All facilities regulated under Article 17, Title 10 must meet certain handling and storage requirements established by DEC. Underground storage tanks and ASTs must observe rules for spill prevention and leak detection. Certain ASTs must be provided with secondary containment (i.e., berms or other devices to contain spills).

6NYCRR 612-614 requires the registration of petroleum storage facilities with the DEC. Facilities must be re-registered every five years. Registration fees vary from $100 to $500 per facility, depending on the size of the tank.

Operators of USTs must keep daily inventory records, reconcile them on a 10 day basis (and maintain them for five years) and notify DEC and the tank owner within 48 hours of unexplained inventory losses. Unprotected tanks installed prior to 1986, such as bare steel, asphalt coated, or painted steel tanks, must be tested when 10 years old. Corrosion-resistant tanks without leak detection systems, such as fiberglass or cathodically protected tanks (steel protected against corrosion caused by contact with soil) must be tested when 15 years old. All tanks which require testing must be retested every five years from the date of the last test. Tanks and pipes which were installed corrosion-resistant and are equipped with leak monitoring systems do not require testing but do require periodic monitoring of the leak detection system and inventory monitoring.

Tanks that are temporarily out of service (30 days or more) must be drained of product to the lowest draw off point. Fill lines and gauge openings must be capped or plugged. Inspection and registration must continue. Those tanks that are permanently out of service must be emptied of liquid, sludge and vapors. The tanks that are permanently out of service must then either be removed or if left in place USTs must be filled with solid inert material such as sand or concrete slurry. DEC must be notified 30 days prior to filling or removal.

Part 614 applies to all new and modified facilities. New USTs must either be made of fiberglass reinforced plastic; cathodically protected steel; or steel clad with fiberglass reinforced plastic. Secondary containment such as a double-walled tank, or a vault, must be provided. If a tank is double-walled, weekly monitoring of the interstitial space is required, otherwise use of an in-tank monitoring system or one or more observation wells is required.

Operators of ASTs must conduct monthly visual inspections. Every 10 years they must clean out the tanks that are resting on grade, remove the sludge from the bottom, inspect for structural integrity and test for tightness.
New ASTs must be constructed of steel. If the tank bottom rests on the ground, the tank must have cathodic protection. An impermeable barrier must be installed under the tank bottom, with monitoring between the barrier and the bottom.

New underground piping systems must be designed with a 30-year life expectancy. If made of steel, they must be cathodically protected. Pipes may be constructed of fiberglass-reinforced plastic or other equivalent non-corrodible materials.

Please refer to the DEC’s web site http://www.dec.ny.gov/chemical/287.html for additional information and http://www.dec.ny.gov/docs/remediation_hudson_pdf/pbsinspfrm.pdf to obtain the petroleum bulk storage inspection form.

The following are some definitions to keep in mind.

Petroleum means: "a. crude oil and any fraction thereof; b. any mixture containing crude oil or any fraction thereof; and c. synthetic forms of lubricating oil, dielectric oils, insulating oils, hydraulic oils and cutting oils. Such term shall not include: (1) hazardous waste defined pursuant to section 27-0903 of the Environmental Conservation Law; (2) substances meeting the definition of hazardous substance pursuant to section 40-0105 of the Environmental Conservation Law; (3) animal or vegetable oils that do not contain crude oil or fractions thereof; or (4) substances that are gases at standard temperature and pressure."

Tank means "a stationary device designed to store petroleum, which is constructed of non-earthen materials that provide structural support. The term "tank" includes all associated pipes, lines, fixtures and other ancillary equipment. The term "tank" does not include septic tank; surface impoundment, pit, pond or lagoon; storm-water or wastewater collection system; flow-through process tank; or liquid trap or associated gathering lines directly related to oil or gas production and gathering operations."

Aboveground tank means any stationary tank which is not entirely covered with earth or other material, or any tank which can be inspected in a subterranean vault.

Underground tank means any tank completely covered with earth or other material. Tanks in subterranean vaults accessible for inspections are considered aboveground tanks for the purpose of this Part.
CHEMICAL AND PETROLEUM SPILLS

Chemical (Hazardous Substances) Spill

Reporting requirements for regulated chemicals or hazardous substances and their reportable quantities are listed in 6 NYCRR Part 597. Any release, spill or overfill that equals or exceeds the “reportable quantity” of a regulated chemical, must be reported to DEC. To report these events, call the DEC Spill Response Hotline at 1-800-457-7362 within two hours of the release, spill or overfill.

In addition, releases of any amount of a regulated chemical (i.e., even if it is less than the reportable quantity) must be reported to DEC within two hours, if it is a release which may enter the environment and result in the following:
- A fire with off-site impacts;
- an explosion;
- violation of air quality standards;
- vapors, dust and/or gases that may cause illness or injury to people outside the shop; or
- runoff from fire control or dilution waters that may cause or contribute to a violation of water quality standards.

The owner or operator must also take immediate action to protect human health, safety and the environment. You are not required to notify DEC within the two-hour time frame if a spill or overfill is captured in an appropriate secondary containment system, you contain the hazardous substance, and you expect to recover or account for the total volume of the spill within 24 hours. However, if the spill or overfill will not be completely contained and recovered or accounted for within 24 hours, or if the secondary containment allows the reportable quantity of chemical to reach the environment, DEC must be notified within 24 hours from the time the spill or overfill occurred. Suspected or probable releases to the environment also must be reported to the DEC hotline within 24 hours of discovery.

Petroleum Spill Reporting Requirements

Petroleum spills that occur within New York State must be reported to the New York State Spill Hotline at 1-800-457-7362 within two hours of discovery, unless they meet all of the following criteria:
- The quantity of the spill is known to be less than 5 gallons;
- the spill is contained and under the control of the spiller;
- the spill has not and will not reach the State’s water or any land, and;
- the spill is cleaned up within two hours of discovery.

A spill is considered to have not impacted land if it occurs on a paved surface such as asphalt or concrete and does not pass through to underlying soils. A spill in a dirt or gravel parking lot is considered to have impacted land and is reportable. Other federal and local agencies may also need to be notified, including the National Response Center at 1-800-424-8802, and your local fire and emergency response corps.
SECTION II - DESCRIPTION OF WASTE STREAMS

This section of the manual has been assembled to help small businesses in determining the EPA Hazardous Waste Codes for their wastes. These numbers are needed to complete the Notification of Regulated Waste Activity Form and the Manifest Form. For a complete list of waste codes, you should refer to 40 CFR Part 261 or 6NYCRR Part 371.

In those cases where more than one EPA Hazardous Waste Code is applicable, all should be used. If you have any questions, or if you are unable to determine the proper EPA Hazardous Waste Codes for your wastes, please contact the Training and Technical Support Section of the Division of Environmental Remediation at (518) 402-9543.

ACIDS/BASES

Acids, bases, or mixtures having a pH of 2 or less, or 12.5 or greater, are considered corrosive. For a complete description of corrosive wastes, see 40 CFR Part 261.22 or 6 NYCRR Part 371. All corrosive materials and solutions have the EPA Hazardous Waste Code D002. Some of the more commonly used corrosives are: Acetic Acid, Ammonium Hydroxide Oleum, Chromic Acid, Hydrobromic Acid, Hydrochloric Acid, Hydrofluoric Acid, Nitric Acid, Perchloric Acid, Phosphoric Acid, Potassium Hydroxide, Sodium Hydroxide, and Sulfuric Acid.

REACTIVES

Reactive waste includes reactive materials or mixtures which are unstable, react violently with or form explosive mixtures with water or air, generate toxic gases or vapors when mixed with water or air (or when exposed to pH conditions between 2 and 12.5 in the case of cyanide or sulfide bearing wastes), or are capable of detonation or explosive reaction when heated or subjected to shock (for a complete description of reactive wastes, see 40 CFR 261.23, Characteristic of Reactivity). Unless otherwise specified, all reactive wastes have the EPA Hazardous Waste Code D003. The following materials are commonly considered to be reactive: Acetyl Chloride; Chromic Acid; Cyanides; Hypochlorites; Organic Peroxides; Perchlorates; Permanganates; and Sulfides.

HEAVY METALS/INORGANICS

Heavy metals and other inorganic waste materials exhibit the characteristic of toxicity and are considered hazardous if they fail the TCLP. These wastes may include dusts, solutions, wastewater treatment sludges, paint wastes, waste inks, and other such materials that contain heavy metals/inorganics. Wastewater treatment sludges from electroplating operations are identified as Hazardous Waste Code F006. The following are toxic characteristic: Arsenic - D004, Barium - D005, Cadmium - D006, Chromium - D007, Lead - D008, Mercury - D009, Selenium - D010, and Silver - D011.
SOLVENTS

Certain solvents, spent solvents, solvent mixtures, or solvent still bottoms may be hazardous. This includes solvents used in degreasing (identified as F001) and paint brush cleaning and distillation residues from reclamation. The following are some commonly used hazardous solvents:

- Benzene - F005, D018
- Carbon Disulfide - F005
- Carbon Tetrachloride - F001, D019
- Chlorobenzene - F002, F021
- Cresols - F004, D026
- Cresylic Acid - F002, D027
- O-Dichlorobenzene - F002, D027
- Ethanol - D001
- 2-Ethoxyethanol - F005
- Ethylene Dichloride - D001
- Isobutanol - F005
- Isopropanol - D001
- Kerosene - D001
- Methyl Ethyl Ketone - F005, D035
- Methylene Chloride - F001, F002
- Naphtha - D001
- Nitrobenzene - F004, D036
- 2-Nitrobenzene - F004
- Petroleum Solvents - D001
- Pyridine - F005, D038
- 1,1,1- Trichloroethane - F001, F002
- 1,1,2- Trichloroethane - F002
- Tetrachloroethylene (Perchloroethylene) F001, F002, D039
- Toluene - F005
- Trichloroethylene - F001, F002, D040
- Trichlorofluoromethane - F002
- Trichlorotrifluoromethane (Valclene) - F002

Still residues containing petroleum solvents with a flashpoint less than 140 °F are considered hazardous and have the EPA Hazardous Waste Code D001.

DRY CLEANING FILTRATION RESIDUES

Cooked powder residue (perchloroethylene plants only), still residues, and spent cartridge filters containing perchloroethylene or valclene are hazardous and have the EPA Hazardous Waste Code F002. Any waste containing 0.7 mg/l or more of perchloroethylene as determined by the toxicity characteristic leaching procedure (TCLP) test also has the EPA Hazardous Waste Code D039.
IGNITABLE WASTES

Ignitable wastes include any liquids that have a flashpoint less than 140 F; any non-liquids that are capable of causing a fire by friction, absorption of moisture, or spontaneous chemical change; any ignitable compressed gas as described in 49 CFR 261.300 (for a complete description of ignitable wastes, see 40 CFR Part 261 or 6 NYCRR Part 371); or strong oxidizers. Examples are spent solvents (see also "solvents"), solvent still bottoms, ignitable paint wastes (paint removers, brush cleaners and stripping agents), epoxy resins and adhesives (epoxies, rubber cements and marine glues), and waste inks containing flammable solvents. Unless otherwise specified, all ignitable wastes have the EPA Hazardous Waste Code of D001. Some commonly used ignitable compounds are:

- Acetone - F003
- Benzene - F005 and D018
- n-Butyl Alcohol - F003
- Chlorobenzene - F002 and D021
- Cyclohexanone - F003
- Ethyl Acetate - F003
- Ethylbenzene - F003
- Ethyl Ether - F003
- Ethylbenzene - D001
- Ethylene Dichloride - D001
- Methanol - F003
- Methyl Isobutyl Ketone - F003
- Petroleum Distillates - D001 and Xylene - F003

INK SLUDGES CONTAINING CHROMIUM AND LEAD

This includes solvent washes and sludges, caustic washes and sludges or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments; driers; soaps; and stabilizers containing chromium and lead. All ink sludges have the EPA Hazardous Waste Code K086 and may also have the EPA Hazardous Waste Codes D007 and/or D008.

LEAD-ACID BATTERIES

Used lead-acid batteries should only be reported on the notification form if they are not being recycled. Used lead-acid batteries that are recycled do not need to be counted in determining the quantity of waste that you generate per month, nor do they require a hazardous waste manifest when shipped off your premises. Lead Dross (D008); Spent Acids (D002); Lead-Acid Batteries (D008).

SPENT PLATING AND CYANIDE WASTES

Spent plating wastes contain cleaning solutions and plating solutions with caustics, solvents, heavy metals, and cyanides. Cyanide wastes may also be generated from heat treatment.

WOOD PRESERVING AGENTS

The wastewater treatment sludges from wastewater treatment operations at facilities that use wood preserving agents are considered hazardous. Bottom sediment sludges from the treatment of wastewater processes that use creosote and pentachlorophenol have the EPA Waste Code K001. In addition, unless otherwise indicated, specific wood preserving compounds are: Chromated Copper Arsenate - D004, Creosote - U051 and Pentachlorophenol - F027.

PESTICIDES

The pesticides listed in Table 3, page 38 are hazardous. Wastes marked with an asterisk (*) have been designated acutely hazardous. For a more complete listing, see 40 CFR 261.32 and 261.33, or 6 NYCRR Part 371 for specific listed pesticides and other wastes, wastewaters, sludges, and byproducts from pesticide formulators. Even though many of these pesticides are no longer in common use, they are included here for those cases where they may be found in storage.
<table>
<thead>
<tr>
<th>Pesticides That are Hazardous Waste</th>
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<tr>
<td>Aldicarb*</td>
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<td>Aldrin*</td>
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<tr>
<td>Armitrole</td>
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<tr>
<td>Arsenic Pentoxide*</td>
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<td>Arsenic Trioxide*</td>
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<td>Cacodylic Acid*</td>
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<td>Carbamic Acid, Methylnitrose Ethyl Ester</td>
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<td>Chlordane</td>
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<td>Copper Cyanides*</td>
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<td>1,2-Dibromo-3-chloropropane</td>
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<tr>
<td>1,2-Dichloropropane</td>
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<tr>
<td>1,3-Dichloropropene</td>
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<tr>
<td>2,4 Dichlorophenoxy Acetic Acid</td>
</tr>
<tr>
<td>DDT</td>
</tr>
</tbody>
</table>

* Acutely Hazardous
SECTION III – BEST MANAGEMENT PRACTICES

The most cost-effective way of managing any waste is to not generate it in the first place. Pollution prevention or waste reduction methods can be used by all businesses. You can decrease the amount of hazardous waste your business produces by developing good housekeeping practices, inventory control, employee training, and purchasing practices. Not every pollution prevention activity discussed in this section will make sense for your facility.

An important step in minimizing your hazardous waste generation is to be aware of which chemicals you use at your business. For example, by monitoring your use of different chemicals you may recognize opportunities to switch to less-hazardous materials. The following discussion is intended to give a general overview of pollution prevention opportunities and may not be all-inclusive for your particular business.

Businesses that are Small Quantity Generators and who manifest their hazardous waste must sign a certification on the manifest form stating, “I have made a good faith effort to minimize my waste and select the best management method that is available to me and that I can afford.” Large Quantity Generators have to sign a similar certification. DEC has developed a guidance document which will help Small Quantity Generators minimize their hazardous waste. Contact the DEC Training and Technical Support Section of the Division of Environmental Remediation at (518) 402-9543 for a copy of this guidance.

Pollution prevention options can be broken into three categories: management practices, equipment modifications, and process modifications. If your business is just starting a pollution prevention program, start with some easy and inexpensive practices. Some of the easiest and least-expensive practices produce the most-effective pollution prevention results.

MANAGEMENT PRACTICES

Good management of waste, especially hazardous waste, often saves companies money. Management practices include: good housekeeping, inventory control, employee training, material safety data sheets (MSDS), preventive maintenance, and spill response planning. After reading the management practice ideas below, you will notice that your business will require little or no capital expense to practice these pollution prevention methods. You may have to spend a little extra time familiarizing yourself and your employees with some new ideas and procedures.

GOOD HOUSEKEEPING

If your operation is clean and orderly, there is better control over materials and equipment and less likelihood of spills. The result is less waste generation. Here are some basic good housekeeping guidelines:

- Don't mix hazardous wastes with nonhazardous wastes, since this increases the amount of waste that must be disposed of as a hazardous waste.
- Designate appropriate storage areas for all equipment, materials, and wastes.
- Require every employee to return all materials and equipment to their designated area.
- Use drip pans for equipment cleaning to avoid having to clean up spills.
- Keep containers of solvents, paint thinners and other materials closed when not in use to avoid losing valuable raw materials to the air.
- Keep different types of wastes separate since this practice may increase the possibility of recycling.
- Establish a procedure and a schedule to inspect chemical receiving, storage, and mixing areas for cleanliness and neatness.

**INVENTORY CONTROL**

Managing the chemical inventory includes rotating the stock so that the oldest is used first. Some materials break down over extended storage time and thus may become unusable. When these products are discarded, they may become hazardous wastes. To avoid having to dispose of unused materials, incorporate the following into your supply procedures:

- Order materials on an as-needed basis. If ordering in bulk, check with your vendors to see if they will take back unused portions.
- Mark the purchase date on containers and use older materials first.
- Control the use of hazardous materials so that these materials are not used unnecessarily when a substitute would work.
- Don't use solvents if there are effective substitutes such as detergents (e.g., for hand cleaning, floor cleaning).
- Try to use one multipurpose solvent rather than several different solvents. This will increase the recycling potential of the spent solvent. It will also permit you to buy the multipurpose solvent in bulk, thereby saving money.

**EMPLOYEE TRAINING**

Staff should be trained to recognize pollution prevention opportunities and should be instructed not to create waste in the work area. If possible, send employees to an industry-specific workshop that will discuss waste management.

Training employees about the efficient use of chemicals that may become hazardous wastes can help to reduce the amount of waste generated. For example, if a particular business uses paint thinner or solvent, you can minimize the waste that is generated by:

- Stressing the need to use the minimal amount of paint thinner to get the job done.
- Reusing solvent until it is no longer useable.
- Using your spent solvent as paint thinner.
MATERIAL SAFETY DATA SHEETS

Material Safety Data Sheets (MSDS) provide valuable information regarding the contents of commercial products such as paints, solvents and inks. They also provide information that will enable you to determine if a material, when disposed, will be a hazardous waste.

Obtaining copies of MSDSs from your vendors prior to purchase will allow you to have more control over whether or not your company will generate hazardous wastes. Make sure there are MSDSs on file for every chemical that is used at the facility. Most chemical companies or vendors will fax you an MSDS. MSDSs are also available online.

PREVENTIVE MAINTENANCE

Preventive maintenance programs extend the life of your equipment, keep equipment optimized, minimize downtime, and provide a safe working environment. Practice preventive maintenance of equipment to reduce spills or leaks of materials which may then need to be disposed of as hazardous wastes. Use the recommendations found in the equipment’s operating manual as a starting point to develop and implement a preventive maintenance program. To develop and implement a preventive maintenance program:

- Identify equipment, systems, and structures to which a preventive maintenance program should apply.
- Determine appropriate preventive maintenance activities and the schedule for this maintenance.
- Perform the preventive maintenance activities.
- Keep all the preventive maintenance records on file.

EQUIPMENT AND PROCESS MODIFICATIONS

Equipment and process modifications are two other ways to prevent the generation of hazardous wastes. In some cases, it may not be possible or economical to modify your equipment or process. Many small businesses may not need to make any equipment or process modifications in order to minimize their waste. These options, however, should be examined in your pollution prevention planning before you make any changes. The best way to start is to list separately the modifications you are considering for each sector of your business. You may wish to consult other sources for additional guidance.

SPILL RESPONSE PLANNING

Any time that a solution is unintentionally released it is a spill. If a container holding a solvent, petroleum product or other hazardous material is dropped on the floor and leaks on the ground, it is an unintentional spill. Most spills are minor spills and can be cleaned up with a mop or sponge. However, if a larger spill occurs that requires special clean-up materials and procedures, your facility should be ready to respond.
A good spill response plan will help minimize the effect of the spill on the environment and reduce liability for cleanup costs and possible bodily injury. Keeping chemical and waste storage areas safe and secure can minimize spills. Here are some basic guidelines to include in your spill response planning:

- Take an inventory of all the chemicals used at your facility.
- Check to see that there is proper containment around all chemical containers. All employees should be familiar with the containment areas in case there is a leak or rupture.
- Make a floor plan showing the location of all chemicals in the processing area, floor drains, exits, fire extinguishers and spill response supplies.
- Make a list of all the spill response supplies and equipment such as mop, pail, sponge, absorbent materials, neutralizing materials and personal protective equipment.
- Conduct sample training procedures to see how employees will respond to a spill.
- Post the spill response plan in the chemical storage/mixing area.
- Make sure there is always someone trained in spill response procedures at the facility, or who can be contacted if needed.
- Only trained staff in hazard communication should be allowed in areas where chemicals are used or stored.
SECTION IV - RESOURCE GUIDE
The following organizations provide technical assistance, publish information, conduct or speak at workshops and conferences, and provide telephone, written and on-site information and assistance to generators to improve environmental management.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, NY 12233
www.dec.ny.gov

Division of Environmental Remediation
Hazardous Waste Regulation
(518) 402-9543
Small Quantity Generator Hotline
(800) 462-6553
Hazardous waste determinations and the Small Quantity Generator hotline.

Division of Environmental Permits
(518) 402-9167
Outreach, workshops/training, pollution prevention, and environmental management systems.

Division of Air Resources
Stationary Sources
(518) 402-8403
Source review, permitting, NESHAP and toxics assessments.

Division of Water
Water Permits
(518) 402-8111
Management of the State Pollution Discharge Elimination System (SPDES) permit program, storm water discharges, the water resources programs, and the municipal water supply permit.

Division of Materials Management
Solid Waste Reduction & Recycling
(518) 402-8678
Waste tire program, the beneficial use program, the composting program and other solid waste recycling and waste reduction issues.

Petroleum Bulk Storage
(518) 402- 9553
Technical assistance on chemical and petroleum above/underground storage tanks.

Spill Response Hotline
(800) 457-7362
To report a spill of petroleum products or hazardous materials on land or water in New York State, call the hotline number. Companies are legally required to report a spill within 2 hours. Also, the National Response Center should be notified 1-800-424-8802.
**DEC REGIONAL OFFICES**

**REGION 1** - Nassau & Suffolk Counties  
Building 40 SUNY at Stony Brook  
Stony Brook, NY 11794  
(631) 444-0230

**REGION 2** - Bronx, Kings, New York, Queens and Richmond Counties  
1 Hunters Point Plaza  
Long Island City, NY 11101  
(718) 482-4900

**REGION 3** - Dutchess, Orange, Putnam, Rockland, Sullivan, Ulster and Westchester Counties  
21 South Putt Corners Road  
New Paltz, NY 12561-1696  
(845) 256-3054

**REGION 4** - Albany, Columbia, Delaware, Greene, Montgomery, Otsego, Rensselaer, Schenectady and Schoharie Counties  
1150 North Westcott Road  
Schenectady, NY 12306-2014  
(518) 357-2234

**REGION 5** - Clinton, Essex, Franklin, Fulton, Hamilton, Saratoga, Warren and Washington Counties  
Route 86  
Ray Brook, NY 12977  
(518) 897-1242

**REGION 6** - Herkimer, Jefferson, Lewis, Oneida and St. Lawrence Counties  
317 Washington Street  
Watertown, NY 13601  
(315) 785-2513

**REGION 7** - Broome, Cayuga, Chenango, Cortland, Madison, Onondaga, Oswego, Tioga and Tompkins Counties  
615 Erie Boulevard West  
Syracuse, NY 13204-2400  
(315) 426-7400

**REGION 8** - Chemung, Genesee, Livingston, Monroe, Ontario, Orleans, Schuyler, Seneca, Steuben, Wayne and Yates Counties  
6274 East Avon-Lima Road  
Avon, NY 14414  
(585) 226-2466

**REGION 9** - Allegany, Cattaraugus, Chautauqua, Erie, Niagara and Wyoming Counties  
270 Michigan Avenue  
Buffalo, NY 14203-2999  
(716) 851-7220
STATE AND LOCAL ASSISTANCE

Suffolk County Water Authority
4060 Sunrise Highway
Oakdale, New York 11769
(631) 589-5200
Provides confidential assistance to businesses in Suffolk County.

Erie County Office of Pollution Prevention
95 Franklin Street, Room 1077
Buffalo, NY 14202-3973
(716) 858-6370
Provides confidential assistance to businesses and the private sector in Erie County.

NYC Department of Environmental Protection
Environmental Economic Development Assistance Unit
59-17 Junction Boulevard
Flushing, NY 11373
(212) 639-9675
Provides assistance to small businesses in New York City.

Broome County Division of Solid Waste Management
Edwin Crawford County Office Building
44 Hawley Street
Binghamton, NY 13902
(607) 778-2250
Provides assistance to residents and businesses in Broome County.

NYS Environmental Facilities Corporation
Small Business Assistance Program
625 Broadway
Albany, NY 12205
(800) 780-7227
(518) 402-7462
Provides free technical, confidential assistance to small businesses in New York on issues regarding compliance with state and federal air pollution laws and regulations.

Your county or town Department of Health, Public Works Office, or Environmental Management Council may also be able to provide you with information on local regulations and issues.
EMPIRE STATE DEVELOPMENT

HEADQUARTERS

Albany
New York State Department of Economic Development
Empire State Development
Small Business Division
30 South Pearl Street
Albany, NY 12245
Phone: 1-800-STATE-NY (1-800-782-8369)
E-mail: esd@empire.state.ny.us

Buffalo
Empire State Development
95 Perry Street, Suite 500
Buffalo, NY 14203-3030
Phone: 716-846-8200
Fax: 716-846-8260
E-mail: esd@empire.state.ny.us

New York City
Empire State Development
633 Third Avenue
New York, NY 10017-6706
Phone: 1-800-STATE-NY (1-800-782-8369)
E-mail: esd@empire.state.ny.us

Small Business Environmental Ombudsman
633 Third Avenue
New York, NY 10017
(877) 247-2329
environment@empire.state.ny.us
www.empire.state.ny.us/environment; click on “permitting and compliance assistance”

NYS REGIONAL OFFICES

Capital Region
Hedley Park Place
433 River Street, Suite 1003
1st Floor
Troy, NY 12180
Phone: 518-270-1130
Fax: 518-270-1141
E-mail: nys-capitaldist@empire.state.ny.us
Central New York Region  
620 Erie Boulevard West - Suite 112  
Syracuse, NY 13204  
Phone: 315-425-9110  
Fax: 315-425-7156  
E-mail: nys-centralny@empire.state.ny.us

Finger Lakes Region  
400 Andrews Street - Suite 100  
Rochester, NY 14604  
Phone: 585-325-1944  
Fax: 585-325-6505  
E-mail: nys-fingerlakes@empire.state.ny.us

Long Island Region  
150 Motor Parkway  
Hauppauge, New York 11788  
Phone: 631-435-0717  
Fax: 631-435-3399  
E-mail: nys-longisland@empire.state.ny.us

Mid-Hudson Region  
33 Airport Center Drive - Suite 201  
New Windsor, NY 12553  
Phone: 845-567-4882  
Fax: 845-567-6085  
E-mail: nys-midhudson@empire.state.ny.us

Mohawk Valley Region  
207 Genesee Street  
Utica, NY 13501  
Phone: 315-793-2366  
Fax: 315-793-2705  
E-mail: nys-mohawkval@empire.state.ny.us

North Country Region  
Plattsburgh Office  
401 West Bay Plaza  
Plattsburgh, NY 12901  
Phone: 518-561-5642  
Fax: 518-561-8831  
E-mail: nys-northcountry@empire.state.ny.us
North Country Region
Watertown Office
Dulles State Office Building
317 Washington St., 2nd Floor
Watertown, NY 13601
Phone: 315-785-7931
Fax: 315-785-7935
E-mail: nys-northcountry@empire.state.ny.us

Southern Tier Region
Binghamton Office
State Office Building
44 Hawley Street
Room 1508
Binghamton, NY 13901
Phone: 607-721-8605
Fax: 607-721-8613
E-mail: nys-southerntier@empire.state.ny.us

Southern Tier Region
Elmira Office
400 East Church Street
Elmira, NY 14901
Phone: 607-733-6513
Fax: 607-734-2698
E-mail: nys-southerntier@empire.state.ny.us

Western New York Region
95 Perry Street, Suite 500
Buffalo, NY 14203-3030
Phone: 716-846-8200
Fax: 716-846-8260
E-mail: nys-westernny@empire.state.ny.us
US ENVIRONMENTAL PROTECTION AGENCY

EPA Small Business Ombudsman
EPA Asbestos and Small Business Ombudsman
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460
Mail Code: 1230T
Phone: 202-564-6568
Mainline: 202-566-2075
Hotline: 1-800-368-5888 and 202-566-1970 (DC area)
Fax: 202-566-1505
Helps private citizens, small businesses, and smaller communities with questions on all EPA program aspects.

EPA Region II Office
Compliance Assistance Hotline
(212) 637-4050
290 Broadway, 21st Floor
New York, NY 10007-1866
Provides compliance assistance to EPA Region 2 area businesses.

Industrial Wastewater Pretreatment Program
www.epa.gov/region2/water/pretreatment.html
Provides information for the National Pollutant Discharge Elimination System (NPDES)

EPA Headquarters
Office of Compliance (2224A)
1200 Pennsylvania Avenue, NW
Washington, DC 20460
Phone: (202) 564-2280
Fax: (202) 564-0027
Regulatory, technical, compliance and pollution prevention assistance.

Pollution Prevention Information Clearinghouse (PPIC)
PPIC-EPA
1200 Pennsylvania Avenue
Washington, DC 20460
Phone: (202) 566-0799
Fax: (202) 564-8899
E-mail: ppic@epa.gov
Provides a library and an electronic bulletin board dedicated to information on pollution prevention.
NATIONAL RESPONSE CENTER

(800) 424-8802
For those without 800 access, please call 202.267.2675.
The National Response Center (NRC) is the sole federal point of contact for reporting oil and chemical spills. If you have a spill to report, contact us via our toll-free number or check out our Web Site for additional information on reporting requirements and procedures. The NRC operates 24 hours a day, 7 days a week, 365 days a year.

US DEPARTMENT OF TRANSPORTATION

Pipeline and Hazardous Materials Safety Administration
1200 New Jersey Avenue, SE East Building, 2nd Floor
Washington, DC 20590
Phone: 1-800-467-4922
Non-touch tone phone callers must use the telephone number 202-366-8553
Technical assistance on matters related to DOT’s hazardous materials transportation regulations.
NEW YORK STATE PERMITTED HOUSEHOLD HAZARDOUS WASTE FACILITIES

If you are a Conditionally Exempt Small Quantity Generator and located in one of the following counties, you can call the number listed to make arrangements to bring your hazardous waste for disposal. Appointments are usually required.

**Long Island**

Town of Brookhaven  
**HHW Facility:** 350 Horseblock Road at the Brookhaven Landfill, Brookhaven NY  
Office: 3233 Route 112, Medford, NY 11763  
631-451-6222

Town of Huntington  
**HHW Facility:** 641 New York Avenue, Huntington, NY 11743  
631-427-6377

**Hudson Valley Region**

Rockland County Solid Waste Management Authority  
**HHW Facility:** Fireman's Memorial Drive, Pomona, NY  
Hotline: 845-364-2444  
Office: 99 Torne Valley Road, Hillburn, NY 10931  
845-753-2200

Ulster County Resource Recovery Agency  
**HHW Facility:** 401 Sawkill Road, Kingston, NY  
Office: 999 Flatbush Rd./Rt. 32, P.O. Box 6219, Kingston, NY 12402-6219  
914-336-0600

**Capital Region**

Schenectady County  
**HHW Facility:** at the Schenectady County Farm, 24 Hetcheltown Road, Glenville NY  
For an appointment to drop off HHW: 1-800-494-2273.  
Office: Schenectady County Department of Economic Development and Planning, Schaffer Heights, Suite 303, 107 Nott Terrace, Schenectady NY 12308 For info visit http://www.schenectadycounty.com/ or email jeff.edwards@schenectadycounty.com or call 518-386-2225.

**Central and Western NY**

Oneida-Herkimer Solid Waste Authority  
**HHW Facility:** A. Schuler Memorial Highway (Leland Ave. Extension) in North Utica, NY  
Office: 1600 Genesee Street, Utica, NY 13502  
315-733-1224
NEW YORK STATE PERMITTED HOUSEHOLD HAZARDOUS WASTE FACILITIES (continued)

Broome County
**HHW Facility:** the Broome County/Nanticoke Sanitary Landfill, Napp Road, Binghamton, NY
For an appointment to drop off HHW: 607-763-4449
Office: P.O. Box 1766, Government Center, Binghamton, NY 13902
607-778-6432

Tompkins County
**HHW Facility:** 122 Commercial Ave., Ithaca, NY 14850
607-273-4496

Monroe County
**HHW Facility:** 444 East Henrietta Road, Rochester, New York 14620
Office: City Place, 50 West Main St., Suite 7100, Rochester, NY 14614
716-760-7600

Town of Tonawanda
450 Woodward Avenue, Kenmore, NY 14217
716-875-8822
### RESOURCES ON THE INTERNET

<table>
<thead>
<tr>
<th>Organization</th>
<th>Internet Address</th>
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<tr>
<td>National Pollution Prevention Roundtable</td>
<td><a href="http://www.p2.org">http://www.p2.org</a></td>
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<td>Tellus Institute</td>
<td><a href="http://www.tellus.org">http://www.tellus.org</a></td>
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<tr>
<td>NYS Empire State Development Services to Business</td>
<td><a href="http://www.empire.state.ny.us">http://www.empire.state.ny.us</a></td>
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<tr>
<td>NYS Department of Environmental Conservation</td>
<td><a href="http://www.dec.ny.gov">http://www.dec.ny.gov</a></td>
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<tr>
<td>NYS Environmental Facilities Corporation</td>
<td><a href="http://www.nysefc.org">http://www.nysefc.org</a></td>
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<td>U.S. ENVIRONMENTAL PROTECTION AGENCY</td>
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<tr>
<td>EPA Pollution Prevention (P2) Website</td>
<td><a href="http://www.epa.gov/p2/">http://www.epa.gov/p2/</a></td>
</tr>
<tr>
<td>P3: People, Prosperity and the Planet Student Design Competition for Sustainability</td>
<td><a href="http://www.epa.gov/p3/">http://www.epa.gov/p3/</a></td>
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<tr>
<td>Office of Underground Storage Tanks</td>
<td><a href="http://www.epa.gov/swerust1/">http://www.epa.gov/swerust1/</a></td>
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<tr>
<td>Pollution Prevention Information Clearinghouse</td>
<td><a href="http://www.epa.gov/oppt/">http://www.epa.gov/oppt/</a> ppic/</td>
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<td>U.S. DEPARTMENT OF ENERGY</td>
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<td>The Environment</td>
<td><a href="http://www.energy.gov/environment/index.htm">http://www.energy.gov/environment/index.htm</a></td>
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<td>PACIFIC NORTHWEST LABORATORIES</td>
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<td>Pollution Prevention</td>
<td><a href="http://www.pnl.gov/ems/p2/program_overview.asp">http://www.pnl.gov/ems/p2/program_overview.asp</a></td>
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APPENDIX

TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

A solid waste exhibits the characteristic of toxicity if, using the Toxicity Characteristic Leaching Procedure, Test Method 1311 in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in subdivision 370.1(e) of Part 370, the extract from a representative sample of the waste contains any of the contaminants listed in Table 1 at a concentration equal to or greater than the respective value given in that Table. Where the waste contains less than 0.5 percent filterable solids, the waste itself, after filtering using the methodology outlined in Method 1311, is considered to be the extract for the purpose of this subdivision.

<table>
<thead>
<tr>
<th>EPA HW No.</th>
<th>Contaminant</th>
<th>CAS No.</th>
<th>Regulatory Level (mg/L)</th>
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<tr>
<td>D004</td>
<td>Arsenic</td>
<td>7440-38-2</td>
<td>5.0</td>
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<td>D005</td>
<td>Barium</td>
<td>7440-39-3</td>
<td>100.0</td>
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<td>D018</td>
<td>Benzene</td>
<td>71-43-2</td>
<td>0.5</td>
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<tr>
<td>D006</td>
<td>Cadmium</td>
<td>7440-43-9</td>
<td>1.0</td>
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<tr>
<td>D019</td>
<td>Carbon tetrachloride</td>
<td>56-23-5</td>
<td>0.5</td>
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<td>D020</td>
<td>Chlordane</td>
<td>57-74-9</td>
<td>0.03</td>
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<tr>
<td>D021</td>
<td>Chlorobenzene</td>
<td>108-90-7</td>
<td>100.0</td>
</tr>
<tr>
<td>D022</td>
<td>Chloroform</td>
<td>67-66-3</td>
<td>6.0</td>
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<td>D007</td>
<td>Chromium</td>
<td>7440-47-3</td>
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<tr>
<td>D023</td>
<td>o-Cresol</td>
<td>95-48-7</td>
<td>^200.0</td>
</tr>
<tr>
<td>D024</td>
<td>m-Cresol</td>
<td>108-39-4</td>
<td>^200.0</td>
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<td>D025</td>
<td>p-Cresol</td>
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<td>Cresol</td>
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<td>D016</td>
<td>2,4-D</td>
<td>94-75-7</td>
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<tr>
<td>D027</td>
<td>1,4-Dichlorobenzene</td>
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<tr>
<td>D028</td>
<td>1,2-Dichloroethane</td>
<td>107-06-2</td>
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<tr>
<td>Code</td>
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<td>CAS Number</td>
<td>ppm</td>
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<tr>
<td>D029</td>
<td>1,1-Dichloroethylene</td>
<td>75-35-4</td>
<td>0.7</td>
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<tr>
<td>D030</td>
<td>2,4-Dinitrotoluene</td>
<td>121-14-2</td>
<td>0.13</td>
</tr>
<tr>
<td>D012</td>
<td>Endrin</td>
<td>72-20-8</td>
<td>0.02</td>
</tr>
<tr>
<td>D031</td>
<td>Heptachlor (and its epoxide)</td>
<td>76-44-8</td>
<td>0.008</td>
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<tr>
<td>D032</td>
<td>Hexachlorobenzene</td>
<td>118-74-1</td>
<td>0.13</td>
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<tr>
<td>D033</td>
<td>Hexachlorobutadiene</td>
<td>87-68-3</td>
<td>0.5</td>
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<tr>
<td>D034</td>
<td>Hexachloroethane</td>
<td>67-72-1</td>
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<tr>
<td>D008</td>
<td>Lead</td>
<td>7439-92-1</td>
<td>5.0</td>
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<tr>
<td>D013</td>
<td>Lindane</td>
<td>58-89-9</td>
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<tr>
<td>D009</td>
<td>Mercury</td>
<td>7439-97-6</td>
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<tr>
<td>D014</td>
<td>Methoxychlor</td>
<td>72-43-5</td>
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<tr>
<td>D035</td>
<td>Methyl ethyl ketone</td>
<td>78-93-3</td>
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<tr>
<td>D036</td>
<td>Nitrobenzene</td>
<td>98-95-3</td>
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<td>D037</td>
<td>Pentachlorophenol</td>
<td>87-86-5</td>
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<tr>
<td>D038</td>
<td>Pyridine</td>
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<td>D010</td>
<td>Selenium</td>
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<tr>
<td>D011</td>
<td>Silver</td>
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<tr>
<td>D039</td>
<td>Tetrachloroethylene</td>
<td>127-18-4</td>
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<td>D015</td>
<td>Toxaphene</td>
<td>8001-35-2</td>
<td>0.5</td>
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<tr>
<td>D040</td>
<td>Trichloroethylene</td>
<td>79-01-6</td>
<td>0.5</td>
</tr>
<tr>
<td>D041</td>
<td>2,4,5-Trichlorophenol</td>
<td>95-95-4</td>
<td>400.0</td>
</tr>
<tr>
<td>D042</td>
<td>2,4,6-Trichlorophenol</td>
<td>88-06-2</td>
<td>2.0</td>
</tr>
<tr>
<td>D017</td>
<td>2,4,5-TP (Silvex)</td>
<td>93-72-1</td>
<td>1.0</td>
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<tr>
<td>D043</td>
<td>Vinyl chloride</td>
<td>75-01-4</td>
<td>0.2</td>
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</tbody>
</table>
FOOTNOTE 1: Hazardous waste number.

FOOTNOTE 2: Chemical abstracts service number.

FOOTNOTE 3: Quantization limit is greater than the calculated regulatory level. The quantization limit therefore becomes the regulatory level.

FOOTNOTE 4: If o-, m-, and p-Cresol concentrations cannot be differentiated, the total cresol (D026) concentration is used. The regulatory level of total cresol is 200 mg/l.