

**Housing Waste Management Policy and Procedures**  
**New Brunswick Campuses**  
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# Housing Waste Management Policy and Procedures

## New Brunswick Campuses

### I – General Information

#### a. Background:

The Rutgers University Housing Departments on the New Brunswick/Piscataway campuses perform routine activities that generate wastes, which are regulated by the Environmental Protection Agency and the NJ Department of Environmental Protection. These wastes fall into one of the following four categories: Universal Waste (bulbs, batteries, and mercury switches), Ballasts, Hazardous Waste, and Used Oil.

#### b. Purpose

The purpose of this policy and procedure is to ensure that all hazardous waste, universal waste, ballasts, and used oil are properly managed from the New Brunswick/Piscataway campuses through proper handling, storage, and preparation for transportation. The management of these wastes shall be conducted in accordance with all applicable local, state, and federal laws and regulations.

### II – Generator Responsibilities

#### A. Generator Responsibilities

It is the responsibility of Housing department personnel to identify (i.e. recognize) and properly manage (e.g. label, properly containerize) hazardous waste, universal waste, ballasts, and used oil according to this university policy. It is also the department's responsibility to minimize the generation of hazardous waste where possible. Rutgers Environmental Health & Safety (REHS) will provide assistance in order for you to follow and comply with the applicable regulations and University policies. REHS's responsibilities are discussed in section III.

#### B. Waste Minimization

It is Rutgers University's policy and responsibility to minimize the generation of hazardous waste wherever possible. Listed below are some examples of waste minimization practices.

- Only purchase the amount of materials needed to complete a project. Often the cost for disposal is more than the purchase price.
- Purchase nontoxic, non-hazardous alternative products. See Table 1 for examples.
- In order to minimize waste, please reuse or recycle materials whenever possible.
- Utilize the chemicals available in the chemical reuse program. The list is currently available on the REHS website at <http://rehs.rutgers.edu>. REHS encourages you to either donate unused chemicals to the program or to make a request to acquire them from the list.

**Table 1**

<i>Use</i>	<i>Instead of</i>
Latex Paint	Oil Based Paint
Citrus Based Degreasers	Solvent Based Degreasers
Propylene Glycol	Ethylene Glycol
Non-Chlorinated Solvents	Chlorinated Solvents

### **C. Types of Waste and Disposal**

#### **Obsolete/Unused Materials** (e.g. paint, oil, antifreeze)

- All obsolete/unused materials should be disposed of through REHS. Please review the waste management and request for removal sections of this policy.
- If a material is in good condition, and may be used in another department, REHS will add it to the chemicals for reuse inventory.

#### **Aerosol cans – not completely empty**

- Collect and store in the Satellite Accumulation Area (SAA).
- Mark with the words “Hazardous Waste” if the material is in its original container, or label using a Rutgers University Hazardous Waste Label. For more information on labeling see part E of this section.
- Dispose of through REHS by utilizing the online request form for hazardous waste disposal at <http://rehs.rutgers.edu>
- Note if the aerosol is completely empty it may be disposed of in the regular trash. However, aerosols may not be intentionally emptied in order to dispose of in the regular trash.

#### **Antifreeze**

- Collect antifreeze in Department of Transportation (DOT) approved 5 or 55-gallon containers. These are available from REHS.
- Label as “waste antifreeze.”
- Keep containers securely closed and in secondary containment in the Satellite Accumulation Area (SAA).
- Dispose of through REHS by utilizing the online request form for hazardous waste disposal at <http://rehs.rutgers.edu>

## **Batteries (Lead acid)**

- Collect lead acid batteries and store in secondary containment in the Satellite Accumulation Area (SAA) or other secure area.
- Label lead acid batteries or secondary bins with a black and white Rutgers University Universal Waste label. For more information on labeling see part E of this section.
- Check the battery waste type box on the label and mark the date that the accumulation begins on the label. No batteries should be kept in storage for more than one year.
- Do not store broken and/or leaking lead acid batteries with intact batteries.
- Clip wires at the battery surface.
- Insulate the terminals with duct tape to prevent lead acid batteries from being discharged if you are storing multiple batteries in a bucket or stacking them.
- Do not store lead acid batteries in the same secondary containment with oil or flammable materials.
- Exchange the used lead acid batteries with the supplier if possible when purchasing a replacement battery (this refers to car/truck batteries). Keep copies of paperwork related to the exchange for a minimum of three years.
- All other lead acid batteries (non-vehicle) must be disposed of through REHS by utilizing the online request form for hazardous waste disposal at <http://rehs.rutgers.edu>

## **Batteries – Rechargeable NiCad, Lithium, Gel-Cell (Lead-Acid)**

- Segregate the batteries according to type. NiCad and Gel Cells should be stored in plastic 5 gallon buckets or plastic drums. Buckets or drums are available from REHS. Lithium (button) Batteries should be stored in ziplock bags. In addition, batteries can be stored in plastic gray bins.
- Collect batteries in secondary containment in Satellite Accumulation Area (SAA).
- Label ziplock bags, containers, or plastic gray bins with a black and white Rutgers University Universal Waste label.
- Check the battery waste type box on the label and mark the date that the accumulation begins on the label. No batteries should be kept in storage for more than one year.
- Do not store broken and/or leaking batteries with intact batteries.
- Clip wires at the battery surface.
- Insulate the terminals with duct tape or electrical tape to prevent batteries from being discharged if storing multiple batteries in a bucket or stacking them.
- Do not store batteries in the same secondary containment with oil or flammable materials.

- All rechargeable NiCad, Lithium, and Gel-Cell batteries must be disposed of through REHS by utilizing the online request form for hazardous waste disposal at <http://rehs.rutgers.edu>

**Consumer Electronics – Computer Monitors, CPUs, printers, copiers, facsimiles, televisions, VCR, stereos, microwaves etc.**

The disposal of consumer electronics is regulated by the NJDEP. These items may not be disposed of in the regular trash. Please contact Rutgers University Material Services Department at 732.445.5832 for more information and collection.

Material Services is responsible for the proper management of these discarded items.

**Lamps: Fluorescent, high intensity discharge, neon, mercury vapor, metal halide, and high pressure sodium**

Fluorescent light tubes contain a small amount of mercury and are regulated as a Universal Waste. This includes U-tubes and any metal halide bulbs. In order to ensure proper disposal, University Policy requires that all lamps, except for the regular incandescent bulbs are to be recycled. This includes the “green tipped” fluorescent tubes.

The steps listed below outlines the procedure to manage these wastes in order to comply with federal, state, and local regulations:

- Package the lamps in proper containers (i.e. original boxes or boxes/tubes acquired from the current University Approved Universal Waste vendor.)
- Packages must be kept securely closed (i.e. taped shut).
- Do not stack or lean fluorescent tubes prior to packaging, this may cause them to break and release mercury.
- Do not allow bulb boxes to get wet. All containers must be stored in an area, which does not allow water to come in contact with the boxes (i.e. shed or storage room)
- Bulbs, which are accidentally broken, can be collected in a plastic bag and placed into the storage box with the intact bulbs.
- Maintain all lamps, new and used, in a manner that will not jeopardize packaging integrity.
- Label packages of spent lamps with a black and white Rutgers University Universal Waste label.
- Check the “lamp” waste type box on the label and mark the date when the first spent bulb was placed into the box.
- Universal waste lamps may not be stored for more than one year from the date listed on the label.
- Housing is responsible for disposing of fluorescent lamps by using the University approved vendor (See Appendix 1 for contact information). This is completed by utilizing a document called a “Bill of

Lading.” This is not a hazardous waste manifest and must be signed by a representative of the department shipping the fluorescent lamps. A bill of lading specifies the type and quantity of materials being shipped.

- Paperwork associated with fluorescent bulb pick-ups must be maintained by the Housing department for a minimum of three years. They should also be available to REHS for inspection upon request. This refers to a copy of the bill of lading, which is signed by the current University Approved Universal Waste vendor’s driver and a Rutgers Housing representative.

### **Lead Paint Chips**

- Collect in strong poly bags (e.g. 6mm poly bag) not to exceed 30 pounds.
- Store bags in 55-gallon drums provided by REHS.
- Drum must be kept securely closed except when adding waste.
- Label with a black and white Rutgers University Hazardous Waste Label. For more information on labeling see part E of this section. In addition, an example of this label can be found in the back of this document.
- Dispose of through REHS

### **Light Ballasts**

Light ballasts are divided into two categories, PCB and Non-PCB (i.e. mineral oil). Light ballast disposal is dependent on the presence of polychlorinated biphenyls (PCB) in the ballast potting material. In 1979, the Toxic Substance Control Act prohibited the manufacturing of light ballasts containing PCBs.

**Ballasts manufactured after 1979 should have a “Non-PCB” label affixed to the outside of the ballast. Any ballast manufactured prior to 1980(1979 or earlier) must be classified as PCB regardless of labels. If the ballast is not dated on the backside of the ballast to indicate it was manufactured after 1979 or labeled as non-PCB on the front, it must be considered PCB as well.**

The steps below outlines the procedure to manage waste ballasts:

- Any ballast that exhibits leakage must be segregated from intact, non-leaking ballasts. Leaking ballasts should be packaged separately in a double plastic bag and placed in a separate container, which is labeled with a spent ballast label and marked as containing leaking PCB or non-PCB potting material.
- Always wear latex or nitrile gloves when handling ballasts.
- All intact ballasts should have all wires snipped as close to the body of the ballast as possible.
- Package PCB and Non-PCB ballasts separately. It is very important to properly segregate ballasts because of the price per pound differential between the two types.
- Place ballasts in 55-gallon, 30-gallon metal drums or 5-gallon plastic screw top pails, which are DOT rated. These are available from REHS and the University approved universal waste vendor.

- Keep drums securely closed on top when not in use. This means that the lid on the container must be tight fitting.
- 55-gallon drums of ballasts should only be filled to a maximum of 75%; this will prevent the drums from being too heavy.
- Ballast drums should not contain any other material or waste except spent ballasts.
- No absorbent should be used in the drums.
- Mark the outside container with a black and white Rutgers University Spent Ballast label. These are available from REHS. Check the appropriate box for the type of ballast and if applicable adhere a yellow “PCB” label for ballasts containing PCBs. **In addition, mark the storage date, which is the date that the first spent ballast goes into the container. An example of this label can be found in the back of this document.**
- Store ballasts in secure, designated areas that are properly marked. The storage area must be marked on the outside of the area with a PCB label when PCB ballasts are being stored in that location.
- Housing is responsible for disposing of ballasts using the University approved vendor (See Appendix 1 for contact information). This is completed by utilizing a document called a “Bill of Lading.” This is not a hazardous waste manifest and must be signed by a representative of the department shipping the ballasts. A bill of lading specifies the type and quantity of materials being shipped.
- Paperwork associated with ballast pick-ups must be maintained by the Housing Department for a minimum of three years. They should also be available to REHS for inspection upon request. This refers to a copy of the bill of lading, which is signed by the AERC driver and a Rutgers Housing representative.

### **Mercury Thermostats/Switches, Thermometers, or Mercury Containing Equipment – Intact**

- **DO NOT** attempt to disassemble the device/equipment, which could result in a mercury spill. Thermostats consist of one or two mercury bulbs of mercury within each thermostat.
- Collect mercury-containing devices and equipment in an appropriate container which, would be a zip-lock bag inside of a DOT rated container). DOT containers for mercury containing equipment are available from REHS. Do not collect broken mercury apparatus with intact items.
- Keep the container securely closed.
- Label with a black and white Rutgers University Universal Waste label.
- Check the appropriate waste type on the label and mark the date when the first item was placed into the container.
- Store in Satellite Accumulation Area (SAA).
- Dispose of through REHS.

### **Mercury Thermostats, Thermometers, or Mercury Containing Equipment – Broken**

- Collect broken mercury-containing devices and equipment in an appropriate container (i.e. screw top jar or ziplock bag). Do not collect broken mercury apparatus with intact items.
- Keep the container securely closed.
- Label the container with a black and white Rutgers University Hazardous Waste label.
- Store in Satellite Accumulation Area (SAA).
- Dispose of through REHS.

### **Paints, Stains, and Wood Preservatives – Oil and/or Solvent Based**

- Collect and store in Satellite Accumulation Area (SAA).
- Mark with the words “Hazardous Waste” if the material is in its original container, or label using a Rutgers University Hazardous Waste Label. For more information on labeling see part E of this section.
- Keep container securely closed.
- Dispose of through REHS.
- Note paint that is completely dried out may be disposed of in the regular trash. However, oil/solvent based paints may not be intentionally dried in order to dispose of in the regular trash.

### **Paint – Latex**

- Collect and store in Satellite Accumulation Area (SAA).
- Keep container securely closed.
- Dispose of through REHS
- Note- Latex paint that is completely dried out may be disposed of in the regular trash. Latex paint that is not completely dried out should be disposed of through REHS.

### **Paint Thinner, Paint Strippers, and Adhesives**

- Collect and store in Satellite Accumulation Area (SAA).
- Mark with the words “Hazardous Waste” if the material is in its original container, or label using a Rutgers University Hazardous Waste Label. For more information on labeling see part E of this section.
- Keep container securely closed.

- Dispose of through REHS

### **Rags – Contaminated**

Please contact REHS for disposal information on contaminated shop towels and rags. Generally, rags contaminated with solvents, oils, or other toxic compounds must be collected and disposed of through REHS.

### **Used Oil**

The housing department generates a variety of used oil. These oils include: Motor Oil, Heating Oil, Refrigerator Oil, Hydraulic Oil, Transformer Oil, and Lubricating Oils. These oils are regulated both by the federal EPA and the NJDEP. Below outlines the proper procedure for managing these used oils.

- Collect used oil in Department of Transportation (DOT) approved containers such as 5, 30, and 55-gallon drums.
- Different types of oil should not be co-mingled (i.e. don't mix refrigeration oil and motor oil).
- Label containers with a black and white Rutgers University Used Oil label. For more information on labeling see part E of this section.
- Complete label with the date used oil accumulation began and location information.
- Store containers in/on secondary containment such as a spill pallet.
- Keep container securely closed except for when adding or removing used oil.
- All types of used oils from Housing are disposed of through REHS.

*Note:* Oil filled equipment may contain oils that are contaminated with PCBs. Contact REHS prior to disposing equipment. More information on PCBs and oil containing equipment may be found in the Polychlorinated Biphenyl (PCB) Waste Management Plan, which is available through REHS.

### **Used Oil – Filters**

- Drain filters into appropriate used oil container.
- Collect filters in a sturdy, closable, leak proof container. These are available from REHS.
- Label containers with a black and white Rutgers University Used Oil label. These are available from REHS. For more information on labeling see part E of this section.
- Complete label with the date used oil accumulation began and location information.
- Store containers in/on secondary containment such as a spill pallet.
- Keep container securely closed.

- Dispose of through REHS.

#### D. Waste Management

- Waste materials discussed in this policy, and other regulated wastes must be collected in individual, leak proof, sealed containers. The materials must be compatible with container material (*e.g.* acids must not be placed in a metal container). Glass containers may be safely used for virtually anything except hydrofluoric acid, acid fluoride salts, and very strong alkalis.
- Waste materials/chemicals must not be placed in an unwashed container, which contains any incompatible residual material from its previous contents.
- Select the smallest container available that will properly hold the material, allowing sufficient headspace above the surface of the liquid to allow room for expansion. This is economical and efficient. Five-gallon carboys, pails, and fifty-five-gallon drums are available from REHS as required. Do not use your own drums or pails without prior approval from REHS. They may not meet US Department of Transportation (DOT) requirements.
- Any containers holding a hazardous chemical or waste shall be kept securely closed so there is no escape of hazardous waste or its vapors during storage, except when it is necessary to add chemicals or waste. Ensure that lids, bungs, or caps are tightly in place.

#### E. Waste Container Labeling

- All containers must be clearly identified and labeled with the chemical name(s) of the substance(s) at the immediate time when the collection starts. Trade names, acronyms, abbreviations, codes, or formulas **are not acceptable.**
- All hazardous waste, which cannot be recycled because it is either spent, past the manufacturer's expiration date, or has been mixed or contaminated with another substance **must be labeled with a Rutgers University black and white HAZARDOUS WASTE LABEL.** This label must be affixed to the container before any waste material is placed into the container. It is also acceptable to write the words "HAZARDOUS WASTE" on the original manufacturer's label. Note the latter is only acceptable if the chemical is in its original container. Hazardous waste labels may be obtained by calling REHS. **Waste Labeling (or writing the words "Hazardous Waste" on the manufacturer's label) must not be completed on unused materials, as these materials may be recycled by redistribution.**
- The concentration of each chemical or mixture component must be identified on the label. For containers being filled with varying concentrations of a variety of compatible materials, the chemical concentrations can be added to the label when the container is full.
- The hazardous waste label must have all contact information completed.
- **Used Oil** should be labeled with either the words "Used Oil," or with a Rutgers University black and white used oil label.
- **Batteries, lamps, and mercury thermostats or mercury containing equipment** must be labeled with a Rutgers University Universal Waste Label.

- **Spent ballasts** must be labeled with the Rutgers University Spent Ballast Label.

Please note: Non-RCRA regulated waste that is being collected because drain disposal is not permitted or prior to drain disposal does not need a Hazardous Waste Label. Collection containers should be marked with the contents and concentrations (e.g. Spent Citrus Based Parts Washer).

## F. Unidentified Waste

State and federal transportation regulations for waste haulers prevent REHS from collecting substances that are unidentified (i.e. unknown). The department generating the waste must make every possible attempt to identify unknown wastes. Upon request, REHS will assist with identification and will furnish the names of state-certified analytical laboratories.

## G. Satellite Accumulation Areas

- Hazardous Waste, Universal Waste, and Used Oil must be stored in the Satellite Accumulation Area (SAA), at or near the point of generation and under the control of the operator generating the waste. Typically there is an SAA in each room where waste is generated. REHS will assist with the determination of appropriate locations for satellite accumulation areas.
- Chemical wastes must be segregated by general waste type (e.g. flammables, poisons, acids, and alkalis) and arranged so that incompatible substances cannot mix. Incompatibles are those pairs of substances that, when mixed, either react violently or evolve flammable or poisonous gases or vapors. Below are a few general principles that must be followed for safe hazardous waste storage and chemical storage:
  1. Keep ammonia based cleaners and bleach segregated.
  2. Keep acid based cleaners apart from oils, flammables.
  3. Acid based cleaners should never be put into steel containers.
- Hazardous Waste, Used Oil, and Batteries must be stored in secondary containment. Incompatible materials must not be stored in the same secondary containment bin.
- Containers must be arranged so that identification is readily visible.
- State and federal regulations allow up to fifty-five gallons of hazardous waste, or one quart of acutely hazardous waste (for more information on acutely hazardous waste see section II of the Hazardous Waste Disposal Policy and Procedure) in a Satellite Accumulation Area (SAA). Once accumulation limits are met containers must be dated with the start date excess accumulation begins. At the time when the limit is reached, excess waste must be removed from the SAA within three days.
- Spilled material must be properly cleaned immediately. Do not allow spill residues to accumulate in the bottom of SAA containment bins.

## H. Request for Waste Removal

Waste collected by REHS is completed on a routine basis and can be requested by one of two methods; fax or via the REHS web page. With both methods, a ***Request for Hazardous Waste Disposal*** (See Attachment 2.) form must be filled out and submitted to REHS. These forms must include the following information:

- Requester: The name of the person submitting the form. This person should have knowledge of the waste in the event that REHS personnel have questions.
- Telephone #: A contact number for the requester or someone else with knowledge of the waste.
- Substance Location: Include the building name and room number. In addition, if the location of the SAA is not readily apparent, the location of the waste within the lab should also be noted in the event that REHS performs the waste pick-up when no lab personnel are present.
- Chemical Name: Use full chemical names. Do not use formulas or abbreviations. Include all the constituents of each waste container.
- Quantity: Include the number of containers of waste and their volumes.

**Example:**

Paint, oil based	2 X 5 gallon pails
Paint, oil based	10 x 1 gallon
Batteries, lead gel cell	5 x 2 lbs
Mercury Thermostat	1

- If REHS supplies you with 5-gallon or 55 gallon waste pails, carboys, or drums be sure to note how many replacement containers should be left. Also, feel free to note any additional information about the waste that you think may be helpful.
- In the event that waste containers that are to be collected are intermingled in the same SAA bin with containers that you want to keep, it is helpful if you mark the containers that you want taken away. Remember that REHS cannot accept unknown materials. All waste containers must be labeled and their contents identified.
- All waste containers must have a tightly fitting cap that will not leak during transport. Be sure that you have the correct cap, lid, or bung for your container. Improperly capped waste containers will leak.
- **Request for Hazardous Waste Disposal can be sent by one of these two methods** (Blank forms can be obtained from REHS or printed off of the web page)
  - Via Fax to: **732-445-3109**
  - Via Email on Web Page at: **rehs.rutgers.edu**.
    - Click on “**Hazardous Waste Disposal**” under Quick Links
    - Complete the necessary information
    - Click on “**Submit**” at the bottom of the form
  - For the New Brunswick/Piscataway campuses, expect the pick-up to occur within 5 to 10 working days of the submittal of the request form. REHS schedules routine hazardous waste pick-ups on the Manage your waste accordingly. Do not wait to submit a request form until your waste containers are completely full and you are out of space.

## **Section III – REHS Environmental Services Responsibilities**

### **A. Waste Handling & Storage Prior to Shipment**

#### **Waste Handling**

- When hazardous waste or universal waste is picked up by REHS, each container will be checked to ensure it is properly labeled and sealed.
- During each pick-up an inspection of hazardous waste management will be written up a copy of the inspection will be electronically mailed to the person responsible for the area.
- All waste containers are either shipped from the location for disposal or brought back to the Environmental Storage Building (ESB) on Busch Campus.

### **B. Quarterly Audits of Housing Locations**

REHS is responsible for conducting audits of the Housing departments' waste storage areas. Audit reports are generated and sent out to the responsible individuals. These reports indicate the current compliance status of the areas at the time of inspection. Non-compliance issues that are found during these inspections, are expected to be corrected within 30 days of the initial inspection.

**Appendix 1  
Approved Vendors**

**Fluorescent Light Bulbs**

AERC  
2591 Mitchell Ave.  
Allentown, PA 18103

Phone 610.797.7608  
Fax 610.797.7696

**Ballasts**

AERC  
2591 Mitchell Ave.  
Allentown, PA 18103

Phone 610.797.7608  
Fax 610.797.7696

**Appendix 2**

Request for Hazardous Waste Disposal Form

**Fax Completed Form To: (732) 445-3109**

(web based requests can be made at <http://rehs.rutgers.edu>)

Or mail this completed form to:  
Rutgers Environmental Health & Safety  
24 Street 1603  
Bldg 4127 Livingston Campus  
(Tel) 445-2550

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Date of Pick-Up \_\_\_\_\_

**REQUEST FOR HAZARDOUS WASTE DISPOSAL**

**Requester** \_\_\_\_\_ **Bldg** \_\_\_\_\_ **Date** \_\_\_\_\_

**Telephone** \_\_\_\_\_ **Department** \_\_\_\_\_

**Substance Location: Bldg** \_\_\_\_\_ **Room** \_\_\_\_\_ **Campus** \_\_\_\_\_

<b>Name of Chemical(s) (No Formulas / Acronyms)</b>	<b>Number of Containers</b>	<b>Container Volume</b>	<b>Other Information</b>

**Comments**

REMEMBER TO LABEL HAZARDOUS WASTE CONTAINERS. CONTAINERS WHICH ARE UNIDENTIFIED, CANNOT BE ACCEPTED FOR COLLECTION BY REHS.

# REQUEST FOR HAZARDOUS WASTE DISPOSAL

## Instructions for Completing

- I. The requester is the person who is responsible for the generation of the waste.
- II. This request form is to be completed by the requester.
- III.
  - ⇒ The “**Name of Chemical**” names should be written on the form and the waste labels to identify the material. Chemical formulas, acronyms and trade names are not acceptable; i.e. Methylene Chloride, not  $\text{CH}_2\text{Cl}_2$ .
  - ⇒ For mixtures of liquids, all constituents must be listed on the form as well as the waste label and add up to 100%. Solutions of solids or gases in liquids must be expressed in concentrations of either weight percent, molarity (moles per liter), or normality (equivalents/liter).
  - ⇒ List the “**Number of Containers**” for each line item
  - ⇒ Fill in the “**Container Volume**” for substance listed: ml, liter, quart, gallon.
  - ⇒ Include any “**Other Information**” in the last column

### PLEASE XEROX THIS FORM FUTURE USE

Options to submit your request:

- Please fax the completed form to **fax number (732) 445-3109**
- *If a fax machine is not available please submit a web based request on our web site*  
*<http://rehs.rutgers.edu>*
- If you do not have access to a fax machine or the internet this completed form can be mailed to the address below:

**RUTGERS, THE STATE UNIVERSITY  
RUTGERS ENVIRONMENTAL HEALTH & SAFETY  
27 Road 1, Bldg. 4086  
Livingston Campus**

**When a supply of labels is needed or when questions arise, call (732) 445-2550.**

## Appendix 3 Glossary

**Hazardous Waste** is a waste with properties that make it dangerous or capable of having a harmful effect on human health or the environment. The United States Environmental Protection Agency (EPA) classifies hazardous waste into four types of “characteristic waste” and also has four separate types of “listed waste”.

**PCB** Polychlorinated Biphenyls: Polychlorinated Biphenyls were widely used as a fire retardant and insulator in the manufacture of ballasts, transformers and capacitors. Ballasts, transformers and capacitors, which were manufactured prior to 1979 may contain PCB's.

**Used Oil** any petroleum-based or synthetic that has been used.

**SAA** Satellite Accumulation Area: This is an area within a room where hazardous waste is stored. The regulations specify for this area to be located “at or near any point of generation” and to be “under the control of the operator” generating the waste.

**Universal Waste** means any of the following wastes that are subject to the universal waste requirements of N.J.A.C. 7:26A-7, whether incorporated by reference from 40CFR273: or listed additionally by the NJDEP:

**Batteries** (lead acid, nickel-cadmium (Ni-Cd), lithium ion): A device consisting of one or more electrically connected electrochemical cells which is designed to receive, store, and deliver electric energy. The term battery also includes an intact, unbroken battery from which the electrolyte has been removed.

**Mercury-Containing Devices:** means any product, which uses elemental mercury, sealed in an ampoule or other container, as a functional component. Examples of mercury containing devices include, but are not limited to, thermostats, mercury switches and thermometers.

**Lamps:** Lamp, also referred to as “universal waste lamp” is defined as the bulb or tube portion of an electric lighting device. Examples of common universal waste electric lamps include, but are not limited to, fluorescent, high intensity discharge, neon, mercury vapor, high-pressure sodium, and metal halide lamps.

**Consumer Electronics:** Any appliance used in the home or business that includes circuitry. Examples of consumer electronics include, but are not limited to, computers, printers, copiers, telefacsimilies, VCRs, stereos, televisions, and telecommunication devices.