








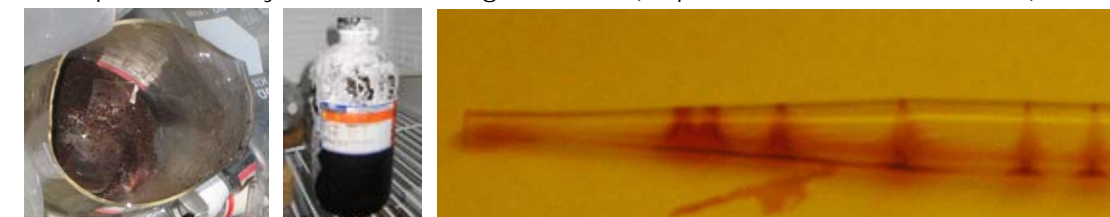
CHEMISTRY DEPARTMENT LABORATORY WASTE

Type of Waste	Type of Container	What Goes in Container	Instructions for Lab Staff	Who is Responsible
Regular Trash and Recycling		<ul style="list-style-type: none"> Examples include paper, cardboard, paper towels and non-contaminated gloves. Items that are NOT contaminated with chemicals, infectious materials or radiation. Items that CANNOT puncture trash bag. 	<ul style="list-style-type: none"> DO NOT discard any needles, syringes, syringe barrels, pipets, pipet tips, chemical bottles, broken glass, microscope slides, cover slips, scalpels, razor blades or other sharp objects in the regular trash. 	Housekeeping staff removes trash bags from lab and discards in dumpster.
Empty Boxes		<ul style="list-style-type: none"> Boxes must be empty. 	<ul style="list-style-type: none"> Deface or remove any radiation or biohazard labels. Mark boxes "trash" and place in or next to regular trash cans. 	Housekeeping staff removes boxes from lab and discards in dumpster.
Non-contaminated Laboratory Glassware and Plasticware		<ul style="list-style-type: none"> Non-contaminated and non-infectious glassware and plasticware, such as pipets, pipet tips, slides, cover slips and broken glass and plastic. Empty, triple-rinsed chemical bottles. (Glass, plastic and metal.) TLC plates and pipet columns with residual silica contamination. 	<ul style="list-style-type: none"> Label container with "Housekeeping Do Not Take" and line with heavy plastic bag. When full, tie bag closed and place in blue or black barrels located in hallways. Triple-rinse empty chemical bottles and label "Empty and Triple Rinsed." Labels are available from Chemistry Facilities staff. 	Lab staff removes plastic bags and places in blue or black barrels.
Non-contaminated Laboratory Glassware and Plasticware		<ul style="list-style-type: none"> Bags containing non-contaminated laboratory glassware and plasticware. Empty, triple-rinsed chemical bottles. (Glass, plastic and metal.) 	<ul style="list-style-type: none"> Triple-rinse empty chemical bottles and label "Empty and Triple Rinsed." Labels are available from Chemistry Facilities staff. 	Chemistry Department staff empties barrels into dumpster.
Chemical Waste		<ul style="list-style-type: none"> Liquid chemical waste. Old or expired chemicals in original bottle. Magnesium sulfate and silica waste. Used pump oil. Heavily contaminated glassware and plasticware. Heavily contaminated lab trash. (Gloves, paper towels, etc.) 	<ul style="list-style-type: none"> Properly label all chemical waste containers. Collect liquid waste in 5-gallon carboys or 1-gallon plastic bottles available from EHRS. Collect magnesium sulfate and silica waste in 5-gallon carboys. Collect heavily contaminated glass in heavy plastic bags. Collect contaminated lab trash in heavy plastic bags. 	Lab staff collects and labels waste. EHRS staff picks up waste from the lab.
Infectious Waste and Sharps		<ul style="list-style-type: none"> Infectious, non-infectious and chemically contaminated sharps. (Needles, syringes, syringe barrels, scalpels and razor blades.) All plasticware, glassware, gloves and any other items that have contacted infectious materials. 	<ul style="list-style-type: none"> Collect ALL sharps in sharps containers available from the chemistry stockroom. Dispose of when 3/4 full. Collect infectious pipets, pipet tips, microscope slides, cover slips and other laboratory glassware in sharps containers. Collect all other infectious materials in red biohazard bags. Label sharps containers containing chemically contaminated sharps with "Do Not Autoclave." Autoclave sharps containers (except chemically contaminated sharps) and red bags and take to the stockroom or roundhouse for disposal. 	Lab staff collects waste, autoclaves waste and takes it to the stockroom or roundhouse.
Radiation Waste		<ul style="list-style-type: none"> Solid material contaminated with radioactive material including plasticware, glassware, gloves, and paper towels. Liquid radioactive waste. Needles and syringes that have been used with radioactive material. 	<ul style="list-style-type: none"> Collect items contaminated with radioactive material in 4-mil (0.1 mm) thick plastic bag in properly labeled container. Collect liquid waste in compatible new, properly labeled 1-quart or 1-gallon plastic bottles. Collect sharps and syringes in neutral-colored sharps container or other durable container. 	Lab staff collects and labels waste and completes request for pick-up. EHRS staff picks up waste from the lab.

These items **CAN NOT** go into a regular trash can:



Examples of heavily contaminated glassware: (Dispose of as chemical waste.)



See Chemistry Safety Website at www.chem.upenn.edu/chem/safety or contact EHRS at 215-898-4453 or chem_waste@ehrs.upenn.edu for further information or if you have questions about laboratory waste disposal.