

Eckerd College
Collegium of Natural Sciences
Hazardous Waste Management Plan

Revised: January 3, 2007

PURPOSE

This document outlines the responsibilities and procedures for the handling of hazardous waste generated in the laboratories associated with the Collegium of Natural Sciences at Eckerd College.

SCOPE

This plan applies only to the Collegium of Natural Sciences, its employees, and the students who work in the Collegium.

DEFINITIONS

Hazardous Waste Coordinator: Employee who is designated by the NAS Collegial Chair, and who is qualified by training or experience, to provide technical guidance in the development and implementation of the provisions of the NAS Hazardous Waste Management Plan.

Hazardous Waste Pick-up Site: Designated area within Biology, Chemistry, and Marine Science stockrooms where full containers of hazardous waste are placed for pick-up by Facilities Maintenance. Residence time is limited by law to three working days.

Hazardous Chemical: Chemical for which there is statistically significant evidence based on at least one study conducted in accordance with established scientific principles that acute and chronic health effects may occur in exposed employees. This includes chemicals that are carcinogens, toxic or highly toxic agents, reproductive toxins, irritants, corrosives, sensitizers, and agents which damage the lungs, skin, eyes, or mucous membranes.

Laboratory: Workplace where relatively small quantities of hazardous chemicals are used on a non-production basis.

RESPONSIBILITIES

NAS Collegial Chair

Responsible for oversight of the NAS Hazardous Waste Management Plan and directly supervises the Hazardous Waste Coordinators in implementing the plan. The Collegial Chair is responsible for seeing that the coordinators receive the proper training; the Chair will also receive training at a level commensurate with the supervisory duties.

Hazardous Waste Coordinator

Working with the NAS Chair, the coordinators will implement the Hazardous Waste Management Plan. They will be responsible for collecting, labeling, and coordinating pick-up of all hazardous waste. There will be three such coordinators:

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|----------------|-----------------|
| Biology | Jennifer Gilkey |
| Chemistry | Fawn Crotty |
| Marine Science | David Bennett |

Facilities Maintenance

Responsible for timely pick-up of hazardous waste containers from the Hazardous Waste Pick-Up Sites in biology, chemistry, and marine science.

Laboratory Supervisors/Laboratory Instructors/Research Advisers

Responsible for knowing basic practices associated with hazardous waste segregation and collection, and ensures proper training for students engaged in work that generates waste.

PROCEDURES

Waste Collection: hazardous waste will be collected in the individual laboratories within the biology, chemistry, and marine science buildings in designated containers.

Waste Containers: either plastic or glass containers will be used for waste collection. These should be 4-liter containers and must bear the appropriate label.

Waste Segregation: three different waste containers will be available in the general teaching laboratories; these are indicated below.

“A” WASTE: FLAMMABLE, NON-HALOGENATED SOLVENT MIXTURES

“B” WASTE: FLAMMABLE, HALOGENATED/NON-HALOGENATED SOLVENT MIXTURES

“C” WASTE: SOLUTIONS OF AQUEOUS, TOXIC METAL SALTS (EXCLUDING MERCURIALS). This waste includes solutions of * Silver * Cadmium, * Barium, * Cobalt, * Copper, * Chromium, * Thallium, ions complexed with any counter ion (e.g., chloride, nitrate, phosphate, sulfate, etc).

Separate containers will be used for:

FORMALIN WASTE (large quantities)

ETHANOL WASTE (large quantities)

MERCURY COMPOUNDS: this includes mercury metal as well as mercury salts.

SPECIAL WASTE: this is any waste that does not fit into one of the above categories.

Waste Pick-Up: Once a waste container is full, the “accumulation date” will be written on the bottle and a Hazardous Waste Fax will be filled out. This fax will describe the waste (A, B, or C) and will indicate the accumulation date. The tag will be filled-out by the Hazardous Waste Coordinator in each of the three generation sites (buildings). The information on each fax will be entered into a spreadsheet that is designed to track all hazardous waste within NAS.

Once a Hazardous Waste Fax has been generated, it will be faxed to Facilities Maintenance, notifying them that a container of hazardous waste is ready for pick-up. Within three working days, personnel from Facilities Maintenance will pick-up the full waste container, and will transport the waste to the College’s accumulation site located at the Facilities Maintenance Yard. Facilities Maintenance will return empty waste containers to NAS (chemistry) for re-distribution to the three waste generation sites.