

SECTION 8.14

FIELD DECONTAMINATION OF CHEMICAL SAMPLING EQUIPMENT

1.0 Purpose

To describe the procedures for field decontamination of sampling equipment to prevent cross contamination of samples. Note: It is preferred that sufficient pieces of equipment are taken to the field so that this process is not necessary. However, for large or specialized pieces of equipment and/or large projects this is a necessary and acceptable procedure.

2.0 Responsibilities

- Site coordinator is responsible for assuring this procedure is implemented.
- Survey team personnel are responsible for following this procedure.

3.0 Procedure

3.1 Equipment

- ✓ 35 gallon carboys for storage of cleaning solutions.
- ✓ Cleaning tubs for collection of used solutions.
- ✓ Brushes.
- ✓ Laboratory grade non-phosphate grade detergent.
- ✓ Tap water.
- ✓ Deionized water.
- ✓ Isopropanol or other solvent(s) as required.
- ✓ D.O.T. approved 55 gallon drum for storage of rinsates when required.
- ✓ Aluminum foil and/or visqueen sheets.

3.2 Equipment Cleaning

NOTE: This is a general sampling equipment field decontamination procedure. When sampling for certain contaminants, this procedure may require modification. Special situations will be addressed in the site-specific survey plan.

- 3.2.1 Brush gross residue off of the sampling implement and rinse with tap water (rinse water may require collection and proper disposal).
- 3.2.2 Clean equipment with laboratory grade detergent.
- 3.2.3 Rinse thoroughly with tap water. Collect rinse water when required.
- 3.2.4 Rinse with deionized water. Collect deionized water rinsate when required.
- 3.2.5 Rinse twice with solvent. Collect solvent for proper disposal.
- 3.2.6 Allow equipment to air dry as long as possible before reuse.
- 3.2.7 If equipment is not reused the same day wrap in aluminum foil or visqueen sheets for large equipment and store in a contaminant free zone.