

	Standard Operating Procedure Chemical Waste Disposal		SOP Number D-603	Revision 5
			Effective Date <i>06/29/22</i>	Page Page 1 of 5
Written by/ Date <i>SS 06/09/22</i>		Reviewed by/ Date <i>Jim 06/14/22</i>		Approved by/ Date <i>H. Bunnig 06/20/22</i>
Title: QC Laboratory Director		Title: Analytical Development Manager		Title: Quality Systems Manager

1.0 Purpose

This procedure defines the process for the proper documentation and disposal of chemical waste.

2.0 Scope

This procedure applies to chemical waste generated by the QC Laboratory and/ or Manufacturing.

3.0 Responsibility

- 3.1 It is the responsibility of QC Laboratory personnel to follow this procedure.
- 3.2 It is the responsibility of all personnel to properly handle and dispose of hazardous chemicals and to place chemical waste in the designated area for accounting and disposal.
- 3.3 It is the responsibility of QC Laboratory Management or designee to arrange for the disposal of hazardous waste.
- 3.4 It is the responsibility of QC Laboratory Management to implement this procedure and to ensure that the procedure is followed.

4.0 Definitions

- 4.1 **QC** – Quality Control
- 4.2 **EPA** – Environmental Protection Agency

- 4.3 **DOT** – Department of Transportation
- 4.4 **SDS** – Safety Data Sheet
- 4.5 **Halogenated waste** – any halogenated organic waste or any mixtures containing halogenated organic waste, i.e. chloroform, methylene chloride, iodine

5.0 References

- 5.1 D-603-F1, Form, Chemical Disposal Waste Log

6.0 Procedure

- 6.1 Ion Labs, Inc. is registered with the EPA as a conditionally exempt small quantity generator. The EPA registration number is FLR000148601. A small quantity generator generates more than 100kg but less than 1000kgs per month of hazardous waste.

- 6.2 Waste Classifications and Storage:

- 6.2.1 Chemical waste containers will be labeled with the appropriate DOT warning label which advises everyone to the type of hazard contained therein.

- 6.2.2 Chemical waste will be stored in locations by type until pickup is arranged.

- 6.2.3 Types and conditions are as follows:

- 6.2.3.1 Organic solvent waste (pH neutral, no solids) is stored in a 55 gallon steel drum. The satellite containers located in the laboratory are emptied into the drum on an as needed basis.

- 6.2.3.2 The following items are kept separately and in their original containers. These items will be packed up and disposed of by US Ecology as needed (typically at expiration of chemical). **Do not empty contents of original containers for disposal.**

- Flammable solids

- Toxic organic liquids
- Toxic solids
- Acid liquids
- Alkaline liquids
- Alkaline solids
- Acid solids
- Mercury thermometers
- Mercury compounds
- Oxidizers

6.2.3.3 Acid/base liquid waste will be pH neutralized and disposed of in the drain (as allowed).

6.2.3.4 Halogenated waste (ex – KF waste) will be kept in separate satellite containers and will be disposed of separately from organic solvent waste. Do not dispose into 55 gallon solvent waste drum.

6.2.3.5 Other chemical waste that is not already defined in section 6.2.3 will be evaluated and disposed of as appropriate.

6.3 Waste Location

6.3.1 Satellite containers are stored at the waste collection location, i.e. laboratory. Satellite containers should not be stored for longer than 30 days at the waste collection site.

6.3.2 55 gallon solvent waste drums will be stored in the quarantine area within the warehouse.

6.3.2.1 Waste drums should be stored NMT 180 days prior to pick-up.

6.3.3 When transferring waste from satellite location to 55 gallon drums, Form D-603-F1 Chemical Disposal Waste Log must be completed to capture the volume of waste generated.

6.4 Waste Pickup

6.4.1 US Ecology has been selected as the service provider for hazardous waste removal and disposal.

6.4.2 Waste will be picked up on a flexible schedule that is compliant with safety and storage space limitations.

6.4.3 A waste profile will be completed prior to pick up using the US Ecology supplied form or as requested by US Ecology.

6.4.4 Contact information:

US Ecology

7202 8th Avenue

Tampa, Florida 33619

Main: 813-319-3400 (Contact: Marco Sapone)

Mobile: 386-530-9891

Fax: 813-628-0842

7.0 Revision History

Revision	Date	Description of Changes	CCR #	By
0	05/06/10	New	-	-
1	04/09/13	Updated SOP	-	-
2	10/24/13	Changed waste disposal vendor. Created a manifest for logging waste disposal. Added new form.	13-951	B. Johns
3	06/15/16	Changed waste disposal vendor. Added sanitation supervisor responsibilities.	16-0579	V. Zelaya
4	09/03/19	Scheduled review: updated SOP to reflect current procedures and practices.	19-0595	I. Garrett
5	06/09/22	Added additional details for compliance. Changed contact person at US Ecology.	CC-22-0267	J. Sassman

