



SANFORD UNDERGROUND RESEARCH FACILITY

SOUTH DAKOTA SCIENCE AND TECHNOLOGY AUTHORITY

Discharges to Sanitary Sewer

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Revision History

Rev	Date	Section	Paragraph	Summary of Change	Authorized by
01	6/25/2024	NA	NA	Initial Release	CCR 966

1.0 Purpose

The purpose of this standard is to provide personnel at Sanford Underground Research Facility (SURF) guidance to ensure compliant sanitary sewer use.

South Dakota Science and Technology Authority (SDSTA) references the following to fulfill this standard:

- Ordinance No. 6 (As Amended) – Sewer Use, Rules, Regulations, and Rates of Lead-Deadwood Sanitary District No. 1
- Chapter 40 of the Code of Federal Regulations, Part 433 (40 CFR 433) Metal Finishing Point Source Category (Clean Water Act)

2.0 Scope

This standard applies to all SDSTA Personnel, Users, and Contractors/Subcontractors operating at SURF.

3.0 Definitions

Hazardous Waste – A solid waste that exhibits a characteristic defined by the following: Ignitability, Corrosivity, Reactivity, or Toxicity. A solid waste is determined to be a characteristic hazardous waste either by testing or by process knowledge. A hazardous waste may also be defined by listing, that is, named in any one of four lists (F-list, K-list, U-list and P-list) found in 40 CFR 261.30 through 40 CFR 261.33.

Publicly Owned Treatment Works (POTW) – A sewage treatment plant owned, and usually operated, by a government agency.

Sanitary Sewage – Water that contains constituents of human and/or animal metabolic wastes, as well as residuals from cooking, cleaning, and bathing.

Sanitary Sewer – An underground pipe or tunnel system used for transporting sanitary sewage from houses and commercial buildings to a POTW. NOTE: The underground wastewater treatment plants are not considered sanitary sewer for the purpose of this standard.

4.0 Responsibilities

4.1. SURF Laboratory Director

4.1.1. Ensures accountability of the requirements of this document with direct reports.

4.2. Environment, Safety, and Health (ESH) Department

4.2.1. Develops, implements, and updates this standard.

4.2.2. Provides guidance to SDSTA personnel and facility users, as necessary, to ensure compliance with this standard.

4.3. Department Directors

4.3.1. Communicate this standard throughout their department.

4.3.2. Ensure that departmental staff comply with the requirements of this standard.

4.4. SDSTA Personnel and Facility Users

4.4.1. Adhere to the requirements of this standard.

5.0 Instructions

5.1. If SDSTA personnel and facility users intend to discharge a waste, other than sanitary sewage, into the sanitary sewer, it is the responsibility of that individual to confirm that the discharge complies with this standard.

5.2. The following shall not be discharged into the Lead-Deadwood Sanitary Sewer, in accordance with Ordinance No. 6 (As Amended) – Sewer Use, Rules, Regulations, and Rates of Lead-Deadwood Sanitary District No. 1:

- Hazardous waste, solids and sludges, and chemical waste such as paint, must not be discharged.
- Waste containing oil, grease, or sediment/grit shall not be discharged without the preapproval of the Lead-Deadwood Sanitary District.
- Flammable waste shall not be discharged without the preapproval of the Lead-Deadwood Sanitary District.
- Any other waste that may be harmful to structures, systems, equipment, or personnel of the Lead-Deadwood POTW must not be discharged.
- Stormwater
- Surface Water
- Ground Water
- Subsurface Drainage
- Cooling Water
- Industrial Process Water

5.3. Waste approved for discharge to the Lead-Deadwood Sanitary Sewer:

- Neutralized acid from the Majorana experiment that meets the effluent limitations as described in 40 CFR 433.13 has been approved by the South Dakota Department of Agriculture and Natural Resources (SDDANR) for discharge.

6.0 Documented Information/Related Documents

6.1. NA