



Industrial Wastewater Handling

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Standard Operating Procedure (SOP) for Industrial Wastewater Management

Purpose:

This document outlines the procedures necessary for the proper operation and maintenance of the Industrial Wastewater Plant. It is designed to ensure that the facility functions efficiently, remains in compliance with all regulatory requirements, and upholds environmental and safety standards during day-to-day operations.

Forms Required:

- Material Safety Data Sheet (MSDS)
- Waste Manifests
- MP2-Generated Work Orders (WO)

Procedure:

The HydroCal unit shall be completely drained and flushed once each month. This routine maintenance is necessary to prevent sludge accumulation, which can interfere with the unit's efficiency and compromise the effectiveness of solids removal.

1. The Equalization Tanks shall be pumped out as required to maintain proper operation. In addition, a full system flush will be scheduled **annually** to ensure optimal performance and prevent buildup.
2. The underground vault shall be pumped out as needed to prevent accumulation on the walls or within the basin, ensuring proper operation and avoiding blockages.
3. Clean and calibrate the pH probe on the recirculation line and at the Final Effluent Discharge Point as required. Regularly verify readings by collecting samples and testing with pH sticks. The minimum acceptable pH value is **6.0**.

4. The final three-stage clarifier shall be pumped out and thoroughly cleaned as needed. All buildup that could flake off must be removed. This area serves as the primary testing point and should be maintained as the cleanest section of the system.
5. Production and Sanitation personnel are required to **shovel, sweep, and/or pick up solids** from the production and bone room floors. **Flushing solids down the floor drains is strictly prohibited.**
6. Verify that the polymer delivery system is fully operational. The Boiler Operator or Maintenance personnel must inspect its functionality **at least four times per shift.**
7. The Wastewater Operator shall regularly fill the Waste Tanker and coordinate with the waste removal company to schedule timely pickups.