

R18-9-D302. 3.02 General Permit: Process Water Discharges from Water Treatment Facilities

- A. A 3.02 General Permit allows filtration backwash and discharges obtained from sedimentation and coagulation in the water treatment process from facilities that treat water for industrial process or potable uses.
1. The discharge shall meet all numeric Aquifer Water Quality Standards for inorganic chemicals, organic chemicals, and pesticides established in R18-11-406(B) through (D);
 2. The discharge shall meet one of the following criteria for microbiological contaminants:
 - a. A fecal coliform limit, using the membrane filter technique, of two colony forming units per 100 ml (seven-sample median) and a single-sample maximum limit of 23 colony forming units per 100 ml, or equivalent numbers using the multiple tube fermentation method; or
 - b. A seven-sample median limit of 200 colony forming units per 100 ml and a single-sample maximum limit of 800 colony forming units per 100 ml for fecal coliform, provided the average daily flow processed by the water treatment facility is less than 250,000 gallons.
- B. Notice of Intent to Discharge. In addition to the Notice of Intent to Discharge requirements specified in R18-9-A301(B), an applicant shall submit:
1. A characterization of the discharge, including a representative chemical and biological analysis of expected discharges and all source waters; and
 2. The design capacity of any impoundment covered by this general permit.
- C. Design and siting requirements. An applicant shall:
1. Ensure that the depth to the static groundwater table is greater than 20 feet;
 2. Not locate the area of discharge immediately above karstic or fractured bedrock;
 3. Maintain a minimum horizontal setback of 100 feet between the facility and any water supply well;
 4. Design and construct an impoundment, used to manage process water discharges, to maintain, using design volume or mechanical systems, normal operating volumes, if any, and any inflow from the 100-year, 24-hour storm event or may discharge to surface water under the conditions of a National Pollution Discharge Elimination System permit. The applicant shall:
 - a. Design the facility to maintain two feet of freeboard or an alternative level of freeboard that the applicant demonstrates is reasonable, considering the size of the impoundment, meteorologic, and other site-specific factors; and
 - b. Divert any surface water run-on from the 100-year, 24-hour storm event not intended for capture by facility design around the facility.
 5. Manage off site disposal of sludges according to A.R.S. Title 49, Chapter 4.
- D. Operational requirements.
1. Inorganic chemical, organic chemical, and pesticide monitoring:
 - a. The permittee shall monitor any discharge annually to determine compliance with the requirements of subsection (A)(1).
 - b. If the concentration of any constituent exceeds the numeric Aquifer Water Quality Standard, the permittee shall submit a report to the Department with a proposal for mitigation and shall increase monitoring frequency for that pollutant to quarterly.
 - c. If the condition in subsection (D)(1)(b) persists for two additional quarters, the permittee shall submit an application for an individual permit.
 2. Microbiological contaminants monitoring:
 - a. The permittee shall monitor any discharge annually to determine compliance with the requirements of subsection (A)(2).
 - b. If the concentration of any constituent exceeds the limits established in subsection (A)(2), the permittee shall submit a report to the Department with a proposal for mitigation and increase monitoring frequency for that pollutant to monthly.
 - c. If the condition in subsection (D)(2)(b) persists for three additional months, the permittee shall submit an application for an individual permit.
- E. Recordkeeping. A permittee shall maintain the following information for at least 10 years and make it available to the Department upon request:
1. Construction drawings and as-built drawings, if available;
 2. A log book or similar documentation to record inspection results, repair and maintenance activities, monitoring results, and facility closure;
 3. Water quality data collected under subsection (D);
 4. Standard operating procedures; and
 5. Records of any discharge other than those identified by subsection (B).

- F. Reporting requirements. The permittee shall report unauthorized flows into the impoundment to the Department within five days of discovery.

Historical Note

New Section adopted by final rulemaking at 7 A.A.R. 235, effective January 1, 2001 (Supp. 00-4).