

R18-9-C303. 2.03 General Permit: Hydrologic Tracer Studies

- A. A 2.03 General Permit allows for discharge caused by the performance of tracer studies.
 - 1. This permit does not authorize the use of any hazardous substance, radioactive material, or any substance identified in A.R.S. § 49-243(I) in any tracer study.
 - 2. A single tracer test shall be completed within two years of the Notice of Intent to Discharge.
- 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 narrative description of the tracer test including the type and amount of tracer used;
 - 2. A Material Safety Data Sheet for the tracer; and
 - 3. Unless the injection or distribution is within the capture zone of an established passive containment system meeting the requirements of A.R.S. § 49-243(G), the following information:
 - a. A narrative description of the impacts that may occur if a solution migrates outside the test area, including a list of downgradient users, if any;
 - b. The anticipated effects and expected concentrations, if possible to calculate; and
 - c. A description of the monitoring, including types of tests and frequency.
- C. Design and operational requirements. A permittee shall:
 - 1. Ensure that injection into wells inside the capture zone of an established passive containment system that meets the requirements of A.R.S. § 49-243(G) does not exceed the total depth of the influence of the hydrologic sink;
 - 2. Ensure that injection into wells outside the capture zone of an established passive containment system that meets the requirements of A.R.S. § 49-243(G) does not exceed rock fracture pressures during injection of the tracer;
 - 3. Not add substances to wells that are not compatible with their construction;
 - 4. Ensure that a tracer is compatible with the construction materials at the impoundment if a tracer is placed or collected in an existing impoundment;
 - 5. Monitor any wells hydraulically downgradient of the test site for the tracer for at least two years on a quarterly basis if a tracer is used outside the capture zone of an established passive containment system that meets the requirements of A.R.S. § 49-243(G) and less than 85% of the tracer is recovered. This period may be adjusted with the consent of the Department if the applicant can show that the hydraulic gradient causes the tracer to reach the monitoring point in a shorter or longer period of time;
 - 6. Ensure that a tracer does not leave the site in concentrations distinguishable from background water quality; and
 - 7. Monitor the amount of tracer used and recovered and submit a report summarizing the test and results to the Department within 30 calendar days of test completion.
- D. Recordkeeping. A permittee shall retain the following information at the site where the facility is located for at least three years after test completion and make it available to the Department upon request.
 - 1. Test protocols,
 - 2. Material Safety Data Sheet information,
 - 3. Recovery records, and
 - 4. A copy of the report submitted to the Department under subsection (C)(7).
- E. Closure requirements.
 - 1. If a tracer was used outside the capture zone of an established passive containment system that meets the requirements of A.R.S. § 49-243(G), a permittee shall account for any tracer not recovered through attenuation, modeling, or monitoring.
 - 2. Closure may occur immediately following the test, or if the test area is within a pollutant management area defined in an individual permit, at the conclusion of operations.

Historical Note

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