Dri-Sump Requirements and Limitations

The Dri-Sump method is approved to evaluate the tightness of some spill containment basins, sumps, and under-dispenser containment under certain conditions. This method may be used to test the tightness of single-walled sumps (e.g., product piping, transition, STP), single-walled spill containment basins, (e.g., spill buckets) and single-walled under-dispenser containment (UDC). Specific equipment configurations, test equipment, and training are required, and there are strict limitations on when and where the Dri-Sump method may be used.

All Dri-Sump tightness tests must be performed by DEM-licensed tightness testers and must follow all eligibility criteria; tests performed which do not meet these requirements will not be accepted!

DEM must be notified within 7 days of installation of Dri-Sump test equipment. The modification must be made in accordance with all manufacturer, Federal, State, and Local regulations, and when not in use, must be liquid-tight to prevent surface water infiltration.

Eligibility requirements:

- The Dri-Sump method cannot be the first tightness test performed after any modification or replacement of the sump, UDC, product piping, or piping boots. All post-construction tightness tests must be full-level hydrostatic;
- All equipment and supplies for the test must by supplied or approved by the method developer; the use of ad-hoc or un-approved equipment is prohibited;
- The wall of the component being tested must be in direct contact with the soil and/or pea stone. Any component containing an external wrap, sleeve, or outer barrier cannot be tested using this method
- The Dri-Sump method cannot be used as the 1st tightness of any sump, spill containment basin, or under-dispenser containment. The initial test for the 2021 deadline must be performed using a hydrostatic or vacuum test. Subsequent tests may use the Dri-Sump method;
- Method can only be performed by a DEM-licensed tightness tester who has been certification for the Dri-Sump method by the manufacturer and has been certified by RI DEM in the extra requirements and method limitations for use in Rhode Island;
- The tester must follow the Dri-Sump method provided by Accent exactly as written;

Method Limitations:

- Testing cannot be performed for a minimum of 1 hours after any precipitation event;
- Method can only be used on single-walled components;
- The water table at the time of the test must be at least 3” below the lowest point of the component being tested. If the tester is unable to determine the depth to water using the Dri-Sump well, VST, or other on-site wells, than an alternate method must be used.
- The method cannot be used at any site undergoing active Soil Vapor Extraction treatment;
- The method cannot be used in saturated soil conditions; if the tester has any reason to believe the subsurface may be saturated, this method cannot be used;
- The method may only be used if the concrete or pavement surrounding the component being tested and the VST is in good condition with no cracks or other damage;

Reporting and Failures

All data collected during the test must be recorded on the DEM-provided Dri-Sump testing form and submitted to DEM within 30 days of the test, or in the case of failed tests, 7 days. DEM must be notified immediately of all failed tests by clicking on the "Report Test Failure" button on our website at http:/www.dem.ri.gov/ust

For questions, please contact Deputy Administrator Kevin Gillen at (401) 222-2797 x2777116 or by email at kevin.gillen@dem.ri.gov