

# ODNR Lake White Dam

## Waverly, OH



Project Challenges	Solution	Support	Outcome
<ul style="list-style-type: none"> <li>• Soils underneath dam were allowing for water penetration and water movement</li> <li>• Water movement was causing further soil degradation and exacerbating the problem</li> <li>• Further degradation could cause significant structural problems for the dam</li> <li>• Emergency Response due to potential for flooding of adjacent communities</li> </ul>	<ul style="list-style-type: none"> <li>• Stabilize and densify support soils underneath the dam, creating a non-permeable layer to and stopping water movement by use of Deep Injection of high density polyurethane</li> <li>• A retention pool was fabricated to continuously monitor water traveling through the weak soils during the injection process</li> </ul>	<ul style="list-style-type: none"> <li>• Stantec Consulting supported ODNR with soils reports and recommending the Uretek Deep Injection process</li> <li>• Ride-able on State Contract</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Problem Solved:</b> One day installation resulted in stabilized soils and a sealed dam</li> <li>• <b>Quick Installation:</b> 1 Day installation and met needs of the emergency response</li> <li>• <b>Cost Effective:</b> Project was completed under the engineered material estimate</li> <li>• <b>Mitigated Project Delays:</b> ODNR can complete the remaining repairs and allow the lake to refill</li> </ul>