



SOCK TILE DEWATERING SOLUTIONS

Fast, economical groundwater collection for excavations, large sites and linear projects

Sock tile dewatering uses perforated, fabric-wrapped drain tile installed below grade to collect groundwater and route it to pumps or collection points. When soil conditions are suitable, direct-bury sock tile can provide fast, economical groundwater control while keeping the work area open.

What a complete sock tile service can include

Diversified Dewatering can provide project review and system recommendations, laser-guided installation, 5" or 8" dewatering tile, pump and discharge setup, startup, monitoring and removal. Full-system and partial-system scopes are available.

Common applications

- Mass excavation and site development
- Stormwater ponds and treatment basins
- Tanks, pump stations and foundation work
- Sanitary and storm sewers, water main pipeline
- Large sites needing broad water-table drawdown

Designed around the project

Depth, soil structure, groundwater elevation and recharge, excavation footprint, tile routing, collection points, discharge route, access and schedule are considered before installation.

AT-A-GLANCE CAPACITY

7'–20' INSTALLATION DEPTH Option to go 25' deep	~3,000' TYPICAL FEET PER DAY
5" & 8" TILE DIAMETERS	300'–500' TYPICAL RUN LENGTH

SYSTEM & SERVICE RANGE

DIRECT-BURY INSTALLATION UP TO 25'
SAND BACKFILL TILE INSTALLATION
COLLECTION TRENCH SYSTEMS
PUMP & DISCHARGE PIPE RENTALS

Typical production and run lengths depend on soil conditions, groundwater, tile size, access, alignment and site setup.

WHY LASER GUIDANCE MATTERS

Maintaining the planned depth and grade helps long tile runs collect and route groundwater consistently.

WHEN SOIL CONDITIONS CHANGE THE METHOD

Direct burial works best where native soil moves water freely. Sand backfill or a collection trench may improve inflow in finer soils.

DIRECT BURY • SAND BACKFILL • COLLECTION TRENCH • FULL OR PARTIAL SYSTEMS



DESIGNED, INSTALLED AND SUPPORTED AROUND YOUR PROJECT

How a sock tile project comes together

- 1 Review the site and groundwater**
Confirm water level, target drawdown, excavation depth and footprint, soil structure, recharge, access, schedule and discharge requirements.
- 2 Select tile and installation method**
Choose 5", 8" or 12" tile and determine whether direct bury, sand backfill or a collection trench best fits the ground conditions.
- 3 Plan alignment and collection points**
Lay out tile runs, typical 300'–500' sections, sumps or manifolds, pump locations, discharge route and crossing constraints.
- 4 Install and connect the system**
Use laser guidance to maintain the planned line and grade, connect the tile runs, set pumps and route discharge piping.
- 5 Start, verify and support**
Confirm groundwater response and flow, adjust operation as needed, then provide support, rental equipment or removal based on the scope.

Choosing the installation approach

Direct bury

Tile is installed directly in suitable native soil. When the soil structure allows water to move freely to the tile, this is generally the most economical option and supports rapid installation.

Sand backfill

A clean sand envelope around the tile can improve groundwater movement to the drain in finer, layered or less permeable soils.

Collection trench

A drainage trench can collect water from localized wet zones and route it to a sump, pump or main tile system.

Turnkey, partial or rental flexibility

- Full-system service can include planning, tile installation, pumps, discharge piping, startup, monitoring and removal.
- Partial-system options allow the scope to be matched to the contractor's crews, schedule and equipment.
- Pumps and discharge pipe are available for rental when only selected components are needed.

The right method depends on soil permeability, groundwater recharge, required drawdown, site access and the planned excavation.

Scan to check us out online

[diversifieddewatering.com](https://www.diversifieddewatering.com)



Information that helps size a sock tile system correctly

GROUND CONDITIONS

Soil type and layers, permeability, known obstructions and available geotechnical information.

TILE LAYOUT

Proposed alignment, run lengths, collection points, crossings and connection locations.

GROUNDWATER

Existing water level, target drawdown, recharge, pumping duration and seasonal conditions.

DISCHARGE

Route, distance, elevation, approved outlet, treatment needs, permits and environmental controls.

EXCAVATION

Depth, footprint, staging, side slopes or support system and construction schedule.

ACCESS / OPERATIONS

Trencher travel path, working platform, overhead clearance, pumps, power and monitoring plan.

DIVERSIFIED DEWATERING
13749 Rocky's Rd, Holland, MI 49424
616-613-1908
info@diversifieddewatering.com
[diversifieddewatering.com](https://www.diversifieddewatering.com)



24/7 EMERGENCY RESPONSE

616-613-1908



Reliable groundwater-control solutions for Michigan, the Midwest and projects beyond.