



WELLPOINT DEWATERING SOLUTIONS

Turnkey groundwater control for excavations up to 17 feet

A wellpoint system uses a closely spaced line of small-diameter wellpoints connected to a common header and pump. The system lowers groundwater so excavation crews can work in a drier, more controlled area. Effective for excavation 1-17' below grade.

What a complete wellpoint service includes

Diversified Dewatering can provide the full system turnkey: site review, wellpoint layout, installation, header piping, pumps, discharge piping, startup, monitoring, adjustments and removal. The system is matched to the excavation, groundwater levels, soil profile, access and schedule - not simply to a standard layout. Deep well option available if excavating below 17'.

Common applications

- Utility trenches, sewer, water-main and pipeline work
- Foundations, footings, tanks and pump stations
- Sites requiring flexible layouts around active work
- Excavations up to 17 feet deep, subject to project conditions

Designed around the ground conditions

Soil type, groundwater levels, target drawdown, excavation depth and sequence, wellpoint spacing, pump duty, discharge route and access are reviewed before installation. Wellpoint depth can be adjusted to ride the top of a clay layer, keeping the screened intake in the more permeable material where groundwater can be collected effectively.

AT-A-GLANCE CAPACITY

Suitable for excavations up to

17'

300'+
TYPICAL TURNKEY
SYSTEM INSTALL/DAY

1.5"

PVC WELLPOINTS

4"-8"

WELLPOINT PUMPS

SYSTEM & INSTALLATION OPTIONS

- Self-jettable wellpoints
- Excavator-mounted drill rigs
- Hollow-stem auger installation
- Sanded wellpoint option
- Filter-packed screens for silty soils
- 6"-8" header and discharge piping

Typical depth and production depend on soil, groundwater, access and site setup.

FULL-SYSTEM TURNKEY SERVICE • INSTALLATION METHODS MATCHED TO SITE SOILS



PLANNED, INSTALLED AND MONITORED AS ONE SYSTEM

How a wellpoint project comes together

- 1 Review the site and groundwater levels**
 Confirm water level, target drawdown, excavation depth and sequence, soil conditions, access, schedule and discharge requirements.
- 2 Lay out the wellpoint system**
 Establish point spacing and depth, header route, pump locations, discharge path and any staged or multiple-header requirements.
- 3 Match installation to the soil**
 Select self-jetting, drilled installation, hollow-stem auger, sanded wellpoints or filter-packed screens based on the soil profile.
- 4 Install, connect and start the system**
 Install the points, connect the PVC header, set pumps and discharge piping, then test the system and verify initial drawdown.
- 5 Monitor, adjust and remove**
 Observe water levels and system performance, adjust operation or point depth as needed, and remove the temporary system when work is complete.

Matching installation to the soil

Self-jettable points

Fast installation where soils allow water-jetting and the formation remains open around the point.

Excavator-mounted drill rigs

Useful where jetting is difficult, access is challenging or denser layers must be penetrated.

Sanded / filter-packed points

An option for silty or fine-grained soils to improve inflow and reduce migration of formation material.

Clay-layer adjustment

Point depth can be set to ride the top of clay, targeting the water-bearing material above the low-permeability layer

Inventory

- 8"-30" HDPE discharge piping
- 6"-8" PVC wellpoint header
- 1.5" PVC wellpoints
- 6"-8" diesel wellpoint pumps
- 4"-8" electric wellpoint pumps

TYPICAL INSTALLATION RATE

~300 FEET PER DAY

Production varies with soil, access and method.

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diversifieddewatering.com



Information that helps size a wellpoint system correctly

GROUND CONDITIONS

Soil profile, groundwater elevation, recharge, clay layers and known obstructions.

DRAWDOWN

Existing water level, target water level, pumping duration and allowable operating range.

EXCAVATION

Depth, footprint, sequencing, shoring or side slopes and construction schedule.

ACCESS

Equipment travel path, working platform, setup area and overhead clearance.

DISCHARGE

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

POWER / OPERATIONS

Electric service or generator plan, monitoring, redundancy and site coverage.

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