



*The innovative provider of services for maintaining and improving the health of underground infrastructure.*

## Hydro-excavation Service

### Why Hydro-excavation?

Hydro-excavation is a safer, more effective method of excavation compared to traditional methods of digging. Hydro-excavation uses pressurized water and a vacuum system to remove soil and debris and provides the following benefits compared to traditional excavation methods:

**Precision and Accuracy:** Hydro-excavation allows for precise and accurate digging, making it ideal for projects that require careful excavation around sensitive utilities, underground cables, pipes, and other infrastructure. The focused water jet can cut through soil without damaging nearby structures helping you locate, verify, and expose utilities on the job site — quickly, efficiently, and safely.

**Reduced Damage Risk:** Unlike mechanical excavation methods (such as backhoes or bulldozers), hydro-excavation is non-destructive. The controlled water pressure minimizes the risk of damaging underground utilities, cables, pipelines, and other infrastructure, reducing repair costs and potential service disruptions.

**Safety:** Hydro-excavation eliminates the need for hand digging near utilities, which can be hazardous due to the risk of hitting electrical, gas, or other live lines. It also reduces the risk of cave-ins or collapses that can occur with traditional excavation methods.

**Speed and Efficiency:** Hydro-excavation is often faster than traditional methods, as the high-pressure water stream can quickly break up soil, and the vacuum system efficiently removes the slurry. This can lead to shorter project timelines and reduced labor costs.

**Versatility, Depth & Breadth:** Hydro-excavation can be used in a wide range of soil types and conditions, including frozen ground, clay, rocky terrain, sandy soil and is effective even in cold temperatures as low as -40° F. Hydro-excavation offers both depth and breadth in areas where access is limited and is effective in wide areas or deep underground.

**Minimized Disruption:** Hydro-excavation minimizes disruptions to traffic, pedestrian flow, and nearby businesses or residents. The equipment can often be positioned farther away from the excavation site, reducing congestion and safety concerns.

**Regulatory Compliance:** In areas with regulations regarding excavation near utilities or sensitive infrastructure, hydro-excavation can help companies comply with these rules by providing a safer and more controlled digging method.

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Leveraging the recently acquired expertise and experience of Underground Infrastructure Services (UIS), Duke's provides hydro-excavation services for the following applications:

### **Daylighting Underground Utilities & Infrastructure**

Daylighting involves carefully exposing buried utilities and infrastructure for inspection, repair, or construction purposes without causing damage or disruption. Our Hydro-excavation Service provides a safe, efficient, and cost-effective approach to help uncover, assess, and manage underground assets with precision and care.

### **Water Service Material Investigation**

Our comprehensive service is designed to provide the information necessary to make informed decisions regarding the maintenance, repair, or replacement of water service materials and compliance with EPA Lead and Copper Rules and Regulations.

### **Vacuum Service & Debris Removal**

Our Vacuum Service and Debris Removal service provides a safe, efficient, and cost-effective solution for the removal of debris and waste from a wide range of applications from hard to reach areas to confined spaces.

