



Non Destructive Digging



What is Hydro-Excavation

This type of excavation is also called "vacuum excavation", "potholing", "Non-Destructive Digging", "hydro-digging", "hydro-trenching" or "soft digging". The basic process is always the same, pressurized water or air and a vacuum source to remove the material.

Hydro-Excavation is a non-mechanical and non-destructive process which combines pressurized water and a high flow of moving air to simultaneously excavate and evacuate native soils at a controlled rate. The soil and water slurry are conveyed via an 8" tube to a truck-mounted debris tank. This process allows for quick, clean and precise evacuations which require less backfill, less labour force, less restoration, and less environmental impact than conventional digging methods. A controlled flow water stream allows for surgeon-like accuracy. While removing only material necessary for repair or inspection, minimal material needs to be removed when compared with the large, less-than-accurate excavator or back hoe bucket.

What is a Hydro-Excavator?

A Hydro-Excavator is a completely self-contained unit which is comprised of several pieces of equipment. Our machines are capable of carrying 10,000 litres of product therefore proving the most cost efficient service to the customer.



Excavation of Pits

Large-scale exposure of underground utility systems is quick and safe using the Hydro-Excavation method. Advantages in these crowded areas are numerous. Most notable is the safe exposure of "unknown utilities." Hydro excavation is a quick way to clean on top and under utilities which would otherwise have required hand scrapping. The amount of material to be removed is not an issue; a clean-cut, neat, safe and extremely workable excavation will result.

Trench Excavation

Quick work of trenching can be made with the Hydro-Excavation process. Trenching through buried utilities or landscaped areas are very clean and require far less restoration than other methods. Trenches can be for conduit runs, sprinkler systems, or direct burial utilities. Also consider digging building footings. In some soil types, footings can be poured without forms. Once again, Hydro-Excavation can produce a trench which leaves no disruptive footprint, requires minimal backfill, and offers safe exposure of underground utilities.

Remote Excavation

The unique characteristics of the Hydro-Excavation process allow this technique to be most useful in areas where conventional excavating equipment will not fit. By attaching rubber hose extensions, Hydro-Excavation is possible several hundred feet away from the Hydro-Excavator. Consider digging in buildings or under structure; how would that be accomplished with conventional means? The only equipment needed at the actual dig area is a vacuum hose and water gun. This leaves a virtually non-existent footprint.



Utilities

Hydro-Excavation is a non-mechanical and non-destructive method of uncovering buried utilities. Utility companies across the nation are favouring this type of utility exposure because of the immense safety benefit. No longer is accidental line damage a concern. Not only is the risk of disaster virtually eliminated, but damage to line casings and pipe coating are not a worry either. This process allows for exposure of energized buried lines. Hand digging is the recognized method of uncovering utilities; however, oftentimes a pick is used to break up the hard ground, which can lead to utility damage. Hand digging is also extremely slow.

Hydro-Excavation is gaining acceptance by virtue of familiarity. It is quickly becoming the preferred method by utility operators.



Services We Offer:-

Catalyst Handling
High Pressure Water Jetting
Vessel/Silo Cleaning
Drain Cleaning
Project Management
24hr Emergency Response
Grease Traps
Vacuum Loading
Concrete Removal and Repair
Specialised Filtration Maintenance
Waste Removal
Dangerous Goods Management
Serviced Agreements
Confined Space Specialists
Surface Preparation

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