

## Lisa Kerstner

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**From:** Mark Mackey  
**Sent:** Monday, September 11, 2023 8:43 AM  
**To:** Lisa Kerstner; Peter Wegner  
**Cc:** Kim Manley  
**Subject:** vac truck capabilities

Lisa, per your request.

Below is a list of some of the capabilities of vacuum truck would offer the utility.

### Sanitary Sewer

Sewer jetting

Remove solid buildups in manholes.

Clean lift station wet wells quarterly (more if needed). Currently we clean once annually which in my opinion is not nearly enough (it what we have in the budget).

Manhole repair with hydrovac excavation vs open trench. We would be able to a lot more repairs in house vs hiring an excavator.

### Water

Valve box and curbstop repair with hydrovac excavation

Thaw frozen fire hydrants (if vac truck is equipped with a boiler).

### Storm Sewer

Clean and jet storm sewer.

Clean and vac catch basins.

Hydrovac for repairs.

Below is a snippet I grabbed from the CAT rental website. As a disclaimer I did not write or edit what is below. It highlights some of the uses of the truck when it comes to the needs of the water side of the utility.

Prominent underground access work for hydro excavators includes:

- **Installing plumbing:** Most plumbing structures and sewers are underground. To install new pipes or access existing ones, vacuum trucks can [efficiently remove soil from the area](#) without damaging nearby utilities in the ground. Most buildings, from houses and office buildings to stores and schools, require plumbing installation. Vacuum trucks provide a quick and easy way to lay the foundation for these new utilities or repair old ones.
- **Fixing water main breaks:** When water mains break, their leaks can cause a worksite to fill up with water and obstruct the view of the damages. Vacuum trucks provide a convenient way to [remove water from an underground leak source](#) to accurately identify and fix the issue.
- **Drilling holes:** Many features of everyday life rely on proper installation, whether fully or partially underground. Telephone poles, street signs, traffic lights, streetlights and more all require excavation to create foundational holes. Vacuum trucks can easily dig these precise holes to lay new underground utilities or access existing ones.
- **Potholing:** [Potholing or daylighting](#) is the process of digging a small hole in the ground to check on or repair a section of underground utilities. When using larger, less-precise equipment, you risk damaging the facilities while uncovering them. Vacuum trucks let you carefully access the exact area you need for quick checks on existing infrastructure.

- **Slot trenching:** When digging narrow trenches to install pipes, cables, posts and other utilities, accuracy is key. You want to create trenches that are even in width and depth for the entirety of their length. Vacuum trucks allow you to dig [narrower and neater trenches](#) than you can with other equipment and in much less time.

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