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| **Name of Safe Job Procedure**  | **Hydrovac High-Pressure Gas Line** | **SJP #** | 00-0\_\_  |
| **Hazard Rating:** |[ ]  High |[ ]  Moderate |[ ]  Low |
| **Date Developed:** | Enter Date Here | **Revision Date:** | Enter Date Here |
| **Reviewed by:**(name & title) | Add name of Management representative | **Date:** | Enter Date Here |
| **Reviewed by:** (name & title) | Add name of worker representative.  | **Date:** | Enter Date Here |

**Instructions:**

* Management and Worker representatives must review this safe job procedure (SJP) prior to implementation, annually, or any time the task, equipment, or materials change.
* Do NOT perform this procedure until you have been appropriately trained and authorized to do so by your supervisor.

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| **Required Training:**  |
| * Class 3 or Class 1, Ground Disturbance
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| * On-the-job including PPE, Safe Hydro Excavating and use of Dig Tubes Procedures, Gas monitor Use
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**Required PPE:**

|[x] [x] [ ] [x] [x] [x] [x] [x] [x] [x]
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| Eye Protection | Half or full face mask | Face-Shield (as needed) | Safety Footwear | Hearing Protection for 100 dB | Type of Gloves | Hard Hat | Hi-visibility Vest | Fall restraint when applicable | No Loose clothing, jewelry  |

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| **Potential Hazards:**  |
| **Boom contact with overhead powerlines or structures*** Site assessment to keep a minimum approach distance of at least 3m/10ft.
* Use a spotter when moving the truck.

**Contact with hazardous substances*** Follow Utility owner dig procedures.
* Perform gas monitoring.

**Flying debris or contact with high-pressure air or water*** Keep the wand pointed down and away from body parts.
* Use proper length wand.
* Be mindful of where debris is going.
* Use the proper nozzle for the job.
* Monitor pressure and temperature gauges.
* Wear PPE.

**Falls into excavation*** Use fall restraint if working over or adjacent to a trench/hole > 4 feet deep.
* Park the truck at a proper distance away from the trench to prevent ground instability.

**Unexpected traffic (pedestrian or vehicular)*** Set up a perimeter with danger signs or flagging and cones to prohibit entry during work.

**Overexertion from lifting or tripping over rocks*** Keep back straight and lift with legs.
* Place rocks in a pile in a designated area.

**Suction injury from reaching in a clogged dig tube*** Disengage the vacuum and use a bar.
* Never dislodge by reaching your arm up the tube.
* Remove the narrower, bottom section of the tube from the vacuum system.
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| **Pre-Operational Safety Checks**  |
| * Conduct a site assessment to identify any overhead structures and power lines. Ensure all work will maintain the minimum approach distance of the boom or debris tank from any overhead powerlines.
* Conduct a ground stability assessment to identify any special precautions needed to avoid collapse or compromised trenches.
* Prevent entry into the work area as needed.
* Inspect all hydraulic equipment before use including all pre-trip items and emergency shut-off devices.
* Know beforehand where and how the debris slurry will be disposed of in accordance with site rules and local bylaws.
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| **Before Work Begins**1. Refer to the Ground Disturbance Procedure.
2. Verify BC One Call/Locates.
3. Conduct a pre-job meeting to discuss the age of the gas line and its location.
4. Identify and test the Emergency Shut Down Switch with all personnel present.
5. Select the appropriate wand nozzle for soil type.
6. Select appropriate pressure based on conditions and ability.
7. Field test (bump test) gas monitor.

**While You are Working****The dig supervisor will adhere to the following job procedure:**1. Complete and follow the Customer’s Safe Work Permit.
2. Begin gas monitoring.
3. Locate utility. The operator directs wash wand in a circular or sweeping motion on subsoil, never allowing the wand to be stationary. Ensure two-handed contact with the wash wand while the wash pump is in operation.
4. Use appropriate pressure based on conditions and ability.
5. Ensure that the distance between the wand tip and contact point is increased to 15-50 cm (6-20 inches) when near a gas line.
6. When excavation exceeds 1.5m (5 feet) in depth and soil conditions are unstable, a fall restraint system must be utilized.
7. Continue removing soil until the gas line is fully exposed. Visually inspect the protective coating from above. If the coating is damaged, immediately contact the gas line owner before continuing. Ensure that no debris is directed toward the gas line after flowing from the dig wand.
8. Once that gas line has been located, allow debris to fall in the hole and cover the utility. This will prevent material from falling on and possibly breaking utility. Excavate the hole to the required size before exposing the utility again.

**After you Finish**1. Check for overhead obstructions and return boom to cradle.
2. Ensure equipment is off and boom stored safely in the cradle with a load-rated strap as per CVSE.
3. Ensure the work area is clean and any open excavations are made safe before leaving the site.

*If an emergency occurs while conducting this task, or there is an equipment malfunction, shut the equipment off immediately and follow the incident procedure.***REPORT ANY HAZARDOUS SITUATION TO YOUR SUPERVISOR/MANAGER OR EMPLOYER IMMEDIATELY** |