

Document Owner: Manager Customer Planning

Wastewater Gravity Pipe Flushing - Planned Maintenance

Planned maintenance procedure for pipe flushing a section the Wastewater network as part of planned maintenance. This does not cover physical works required to restore service in event of failure whilst flushing.

Health & Safety and Operational Information

Hazard Indicators



Personal Protection



Health and Safety Information

- Health and Safety documentation.
- Generic Traffic Management Plans or site-specific Traffic Management plan.
- Hazardous Waste
- Confined Space Entry

Operation's & Maintenance Documentation

- Corridor Access Requests (CAR) and WIP Permits (site specific or generic/global)
- Service plans (B4uDig)
- Design drawings
- Site plans
- Notification Calling Cards

Customer Information (Confidential)

- Blow Back at risk customers (WWL)

Priority Customer Categories

Emergency Procedure / Escalation

Emergency

- In event of service strike to utility/energy source (e.g. fuel, Gas, Power, Water etc.) report immediately to team leader
- Make "Site Safe" and isolate risks to people or property with resources at hand

Escalate if extra resources required or problems occur!

- Escalate to Team Leader and inform of the issues faced and/or expected resources required if necessary.

Additional Documentation

Required Skills, Competencies (Qualifications and/or Certifications)

Competent persons only.

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Standard Operating Procedure

Required Equipment

Equipment and Information	Details
Fully Equipped Vehicle	Ensure vehicle, plant, equipment and materials appropriate to the day's work schedule is available.
Specialist Equipment	Ensure specialist equipment required is available for utilisation. <ul style="list-style-type: none"> - Sucker truck with full equipment compliment. - Rodding equipment. - Water Jetting Equipment - Emergency rescue gear for confined space entry
Specialist Materials & Parts	Ensure you have loaded up all the required parts and materials required to undertake the maintenance work to be completed.
Notification Cards	Notification letter drop cards: <ul style="list-style-type: none"> - Pipe Flushing Gravity Mains
Instruction Sheets	Blow back prevention instructions sheet.
Vulnerable & Priority List	Blow back 'at risk' customers list. Vulnerable and priority Customers Lists.

Prepare to do the work

Action	Action Details
Pre Start Process	Complete the Daily Pre Start - Planning Reactive Maintenance <ul style="list-style-type: none"> - Include Hazard ID - Include Pre-Start Tailgate Meeting Undertake all tasks required in the Generic Planned Maintenance SOP.
Compliance	Traffic Management Plan - Where required, TMP to be in place prior to work starting. TMP to be accessible on site.
Network Assessment	Identify extent of network to be flushed and associated flushing access points Identify access manholes to be utilised to flush network. Utilise the iPad embedded GIS to locate all network manholes. If required trace flow restrictions / blockages downstream to open free flowing network and upstream to determine extent of backflow and pipes to be flushed.
Customer Assessment	Identify if any special needs / alternate service requirements are required for Vulnerable and Priority Customers. Dependant on nature of event and customer needs arrange alternate service provision for Vulnerable and Priority Customers. Raise a work order for provision of this service. Synchronise iPad.
Environmental Assessment	Identify areas to be protected from potential pollutants and run off.
Assess Flooding Risk	If properties are flooded, have the potential to flood or suffer from wastewater overflow raise a separate work order to deal with property damage mitigation and use emergency / escalation process.
Blow-back mitigation	If required supply wrapping to or undertake wrapping of toilets of 'at risk' properties.
Assess Service Off Period	Based on event scale and issue encountered, provide an estimated timeframe for closure of network. Update the work order, work log with this information and save work log. Synchronise iPad.
Pre-flushing notification	Check affected network service area against current Blow Back list. If possible, notify of closure and intent to flush system and expected timeframe for non-utilisation, provide 'at risk' properties with Blow back prevention instructions sheet.

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Perform the work

Action	Trade	Action Details
Maintenance	Competent Person	Perform the following <ul style="list-style-type: none"> - Photograph site prior to commencing activities if issues are encountered. - Prepare line to be flushed, remove visible debris. - Assess environmental impact. - Prepare water containment. - Prepare debris trapping. - Excavate if required. Correct any problems/issues which may affect flushing before starting.
Maintenance	Competent Person	Flush with Jetting Machine (suction clean out as necessary) to ensure pipes are clear. Perform flushing until required water clarity reached.
Record	Competent Person	Record Jetting pressure (kPa)
Maintenance	Competent Person	Remove debris from associated manholes and chambers.
Maintenance	Competent Person	Refit and lock all access chamber lids and covers.
Record	Competent Person	Record debris removed during cleaning (estimated volume in m3).
Maintenance	Competent Person	Clear site and ensure all tasks are complete.
Maintenance	Competent Person	Perform reinstatement (if required).