

Safe Work Instruction – Installation of Water Services

DO NOT use this plant* or complete this task unless you have been inducted in its safe use and operation by an Authorised Experienced Operator

This SWI may not cover all possible hazards and risks and should be referred to as a control measure in the risk assessment process. Additional training may be required for high risk plant. Site and task may change required PPE.

PERSONAL PROTECTIVE EQUIPMENT



Eye protection must be worn



Long and loose hair must be contained or covered.

Hand protection must be worn



Hearing protection must be



P2 face mask must be worn when airborne dust or fumes are created



Half face mask respiratory protection must be worn



Foot protection must be worn



Protective body clothing must High visibility clothing must worn

POTENTIAL HAZARDS AND RISKS

- (i) Struck by Moving Object Injury to worker being struck by moving traffic
- Manual Task Injury Manual task injury from incorrect manual handling techniques
- Electrical Shock or Burn

be worn

Electrical shock or burn from damaged or poorly maintained electrical leads and cables Electrical shock or burn from plant contact with live electrical conductors

Electrical shock or burn from plant contact with overhead power lines

PRE-OPERATIONAL SAFETY CHECKS

- Ensure to have a copy of the water service application with confirmation of the new service position and configuration.
- ✓ If it is suspected utility lines are in the area, ensure you have the correct "Before You Dig Australia" (BYDA) plans available BEFORE you start work
- Complete WorxOnline site-specific risk assessment
- ✓ Complete the appropriate pre-operational plant checklist
- Ensure you are familiar with plant operations and controls
- Ensure that guards are fitted, secured and functional in accordance with manufacturers guidelines
- ✓ If a TCP is required, both standard and modified. TCP's used must be documented. If there is any foreseen difficulty with the use of the generic TCP, the operator should consult with the coordinator to design a specific TCP for the job

Note: At a minimum, the trucks 'Workmen Ahead' sign, flashing lights and PPE must be used. If at all possible, the truck should be parked off the road reserve

Explosion

Explosion of gases, vapours or liquids

Slip, Trips, Falls

Slip, trip, fall due to uneven or slippery work surfaces. Slip, trip, fall due to steep working surfaces

(i) Other

Burn injury

Exposure to asbestos

Exposure to radiation

Injury due to plant malfunction or misuse

Injury due to fall from heights

Locate any power, Telstra cables, gas, water and other utilities using cable locater and marker locations by applying potholing techniques before commencing backhoe excavations

WARNING: If a disconnection or connection of an existing water service is required, before proceeding refer to SWMS1481 - Electrical Safety **Procedures for Changing Water Meters (with** particular reference to the use of the Plumb Guard equipment)

OPERATING PROCEDURES

- ✓ Keep clear of moving plant parts
- Operate plant to the conditions of the work area
- Ensure you are aware of the location of overhead powerlines. Always operate within the prescribed safe working distances of overhead powerlines utilising a spotter if required
- Refer to SafeWork NSW "Excavation Work" Code of Practice and SWI Trenching and Ground Support before commencing the following excavations -
 - For a Short Service: Excavate a trench 0.45m deep between the main and up to 1 metre inside the owner's boundary, at or as near as possible to the owner's boundary
 - For a Long Service (i.e. road crossing): Excavate a trench 0.45 metres deep between

TRIM Ref: 53293E Adopted: 8.06.2016 Last Amended: 22.01.2024 **Review Date: 22.01.2027** Version: 4 Page **1** of **2**



- the road crossing conduit and up to 1 metre inside the owners boundary as well as a trench between the main and the other side of the road crossing conduit on whichever side the crossing has been supplied by the developer
- For an Under bore: Excavate a trench 0.45metre-deep between road and 1 metre inside owner's boundary. Also excavate a trench on the main side of the road at a size to allow for the under bore and main tapping procedures
- ✓ If the under bore is to be completed at a later time and the depth of the excavations are less than 1.5 metres, the trenches can be secured using star pickets and a well strained, sound, para-webbing
- ✓ If the excavation is greater than 1.5 metres deep, the trenches need to be boarded over and secured with well strained, sound para-webbing or the installation of 1.8m high construction fencing.
- ✓ Shoring should be used in WATER CHARGED ground at all times.
- ✓ In either case a length of poly is to be left in the trench for the road under boring contractor to feed through the under bore
- ✓ Ensure the pipe is centrally located in the trench
- ✓ When feeding the pipe through the under bore hole, the pipe preferably should be pulled using a machine

Note: To facilitate the safe ingress and egress of the excavation ramps, steps and ladders are to be used

- ✓ If tapping an Asbestos cement (AC) pipe, clean the area thoroughly with water prior to placing the tapping band in position. The tapping kit must have a positive purge or 'blow off' feature Note: The tool's pressure chamber protects
 - Note: The tool's pressure chamber protects against water leakage and catches AC debris making this a virtually dust free operation
- ✓ Tap the main to the required service size as specified on the water service application. If tapping an AC, it is then essential to flush out the pressure chamber using the 'blow off' valve to purge out all AC particles to waste
- ✓ Assemble the service as per standard water service drawings (i.e. 21755 number series)
- ✓ Before completing the meter and standpipe installation, flush the service back to the meter cock to make sure there are no blockages (i.e. the flow rate is as expected)

ENDING OPERATIONS

- Fil in excavations and compact using shovel and appropriate machine for the job
- Restore excavations as near as possible to the original condition (topsoil, seed and/or turf if required)
- Complete the details of the type of service (i.e. left, right, centre) meter number, date and name of

- operator who carried out the work in the bottom of the water service application and return to coordinator for further processing
- ✓ Note: Photos should be taken of the site/work before, during and after completion for record.
- Ensure plant is in good working order and stored in the appropriate location

DO NOT

- Do not use if plant is faulty. Attach an Out of Service tag and report fault to your supervisor
- Do not perform a disconnection or connection of an existing water service, before reading SWMS1481 – Electrical Safety Procedures for Changing Water Meters (paying particular attention to the use of the Plumb Guard equipment)
- Do not operate heavy plant and vibrating equipment near the edge of a trench as this will cause stress on the trench walls
- Do not leave plant running unattended
- Do not wear loose jewellery
- Do not use mobile phone while operating plant

*Plant in this SWI refers to any machinery, equipment, appliance, container, implement and tool.