



## **Document Owner: Manager Customer Planning**

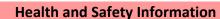
## **Water Transmission Pipelines - Planned Maintenance**

Procedures for maintenance and inspection of water transmission pipelines.

### **Health & Safety and Operational Information**







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

#### **Customer Information (Confidential)**

- Vulnerable customers (DHB supplied list)
- Priority customers (WWL)

#### **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

#### **Priority Customer Categories**

- Schools and Childcare
- Commercial premises
- Hospitals
- Retirement Homes/Villages
- Correction Facilities
- Military Installations
- Oil and Gas Refinery

#### **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)

Mechanical Fitter and Turner.

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# Water Transmission Pipelines - Planned Maintenance Standard Operating Procedure

**Required Equipment** 

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.	
	FAC testing equipment	
	Disinfection equipment	
	Use Sodium Thiosulphate to neutralise chlorinated water when scouring	
Specialist Materials & Parts	Ensure you have loaded up all the required parts and materials required to undertake the	
	maintenance work to be completed.	
<b>Specialist Contractor</b>	Suitability qualified engineer for civil or structural inspections	
Vulnerable & Priority List	Affected local Client Council	
Alkalinity Analysis	Requires the following equipment:	
Equipment	- Schillings Burette with plastic solution bottle attachment.	
	- Burette stand complete with 2 clamps	
	- Plastic 100ml beakers pre-labelled for each sample site.	
	- Calibrated pH instrument	
	-	
	Requires the following reagents:	
	- 0.02N Hydrochloric acid.	
	- Buffer solutions 7.0pH and 4.0pH	
<b>Conductivity Accuracy Test</b>	Requires the following resources:	
	- Barnstead water	
	- Isopropyl alcohol	
<b>Turbidity Meter Calibration</b>	Requires the following resources:	
	- 20NTU formazin	
	- Fresh barn-stead water	
<b>Exposed Crossing Pipework</b>	Requires the following resources:	
Cleaning	- "Wet and forget" fungus treatment.	
pH Prove Replacement	pH probe used is Liquiline M CM42).	
S:can Spectroliser	Equipment to clean and maintain S:can Spectroliser	

Prepare to do the work

Action	Action Details	
Pre Start Process	Complete the Daily Pre Start – Planned Maintenance	
	- Include Hazard ID	
	- Include Pre-Start Tailgate Meeting	
	Undertake all tasks required in the Generic Planned Maintenance SOP.	
Compliance	<b>Traffic Management Plan</b> – Where required, TMP to be in place prior to work starting.	
	TMP to be accessible on site.	

#### Perform the work

Action	Trade	Action Details
Inspect	Mechanical Fitter & Turner	Water Pipelines Instrument Calibration
		Access Chamber Well Pump Inspection
Maintenance	Licenced Operator	Check and clean water pipeline S:can Spectroliser
		Replace seals on Autoburette
		Exposed Crossings Pipework Cleaning
		Pipework Flushing
		Scour operation and drain
		Dead Leg Flush

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# **Water Transmission Pipelines - Planned Maintenance**

Action	Trade	Action Details
		Exercise Valves
		VSD Maintenance
		pH probe replacement
		Air Valve Service
		Flow Meter Verification
Inspect	Licenced Operator	Alkalinity Analyser Check
		Conductivity Accuracy Test
		Turbidity Meter Calibration
		Level Switch & Alarm Check
		Air Valve Check
		Distribution Air Valves Inspection
		Water Pipelines Safety Barriers Inspection
		Pressure Switch Operational Check
		Water Well Integrity Check
Inspect	Engineer	Water Pipelines Culvert Structural Inspection
Closure	Licensed Operator	Carry out work order closure procedures as per Planned Maintenance.
		Generate child work orders as required.
Maintenance	Mechanical Fitter & Turner	Valve Module Check

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