

	COUNCIL POLICY	
	Clearances to Water & Sewerage Assets	
	POLICY NO	063
	DEPARTMENT	Engineering & Commercial Infrastructure
	PROGRAM	Planning & Sustainability
ENDORSED BY COUNCIL	27 February 2019, Folio 61203	

1.0 Scope

This policy applies to developers, builders, contractors and Mackay Regional Council (MRC) officers installing new service utility assets and structures, for which MRC approval has been granted. The policy applies also for the design and construction of new water and sewer mains to existing third party assets.

2.0 Purpose

The following clearances to MRC's sewerage and water assets became effective, September 2003. All new service utility assets and structures for which MRC approval has been granted, shall comply. Clearance also applies for the design and construction of new water and sewer mains to existing third party assets.

3.0 Reference

- *Water Supply (Safety and Reliability) Act 2008, Chapter 2, Part 7*
- Plumbing Code of Australia

4.0 Definitions

To assist in interpretation the following definitions shall apply:

Council shall mean the Mayor and Councillors of Mackay Regional Council.

MRC shall mean *Mackay Regional Council*.

5.0 Background

This policy was developed to provide guidelines for the information of developers, contractors and MRC staff regarding clearance requirements pertaining to water and sewerage assets.

6.0 Policy Statement

1. WATER MAINS

1.1 Clearance to Utility Assets/Works

The clearance between service utility assets/works to MRC's mains is to be maximised wherever possible, however shall not be less than that provided in Table 1.1 below.

TABLE 1.1 – MINIMUM CLEARANCE TO UNDERGROUND WATER MAINS			
WORKS	MINIMUM CLEARANCE (mm)	HORIZONTAL	MINIMUM VERTICAL CLEARANCE (mm)
	≤ DN200	> DN200 - ≤ DN375	≤ DN375
Gas Mains	300	600	150
Telecommunication conduits & cables	300	600	150
Electricity conduits & cables ≤ 415 V	500	1000	225
Electricity conduits & cables > 415 V	1000	2000	500
Stormwater & similar drainage conduits	300	600	150
Kerb & Channel	150	450	500
Sewers	1000	1000	500
Water Mains ≤ DN375	300	600	150
Water Mains > DN375	600	600	500
Poles, pits & small structures ≤ 2m long adjacent to main	150	300	-

MRC's agreement shall be obtained in writing for minimum clearance to existing water mains of > DN375, any above ground mains and proposed services not covered in Table 1.1.

Clearance shall be taken as the nearest point of the service/works to the outside of the water main.

Services shall cross water mains at 90 degrees where possible but not less than 45 degrees.

Drainage conduits \geq DN450 crossing over water mains where vertical clearance is less than 750 mm shall be 'bridged' over the main supported on reinforced concrete stools or similar supports.

Sewer mains shall cross beneath water mains. Where no alternative exists, the sewer main shall be sleeved extending a minimum of 3 m either side of the water main. The sewer shall be located centrally within the sleeve.

1.2 Clearance to Structures

The 45 degree 'Zone of Influence' of any structure including wall, post, foundation or similar shall be clear of the water main so as to prevent excessive loads being imposed, however clearances shall not be less than that provided in Table 1.2 below.

TABLE 1.2 – MINIMUM WATER MAIN CLEARANCE TO STRUCTURE	
WATER MAIN DIAMETER (DN)	MINIMUM HORIZONTAL CLEARANCE (mm)
< DN100	600
DN100 - DN150	1000
> DN150 - DN300	1500
> DN300 - DN375	2000
> DN375	MRC's approval

MRC's agreement shall be obtained in writing for minimum clearance to water mains > DN375 and any above ground mains.

Clearance shall be taken as the nearest point of the structure to the water main. Clearance to the water main may be reduced over a longitudinal distance of 2 m when adjacent to installations such as poles, pits and small structures as per Table 1.1.

2. SEWER MAINS & MAINTENANCE HOLES

2.1 Clearance to Utility Assets/Works

The clearance between service utility assets/works to MRC's sewers (including MH's) shall be maximised wherever possible, however shall not be less than that provided in Table 2.1 below.

Clearance between buildings/structures to MRC's sewers and system components shall be in accordance with MRC requirements.

TABLE 2.1 – MINIMUM CLEARANCE TO UNDERGROUND SEWERS				
WORKS	MINIMUM HORIZONTAL CLEARANCE (mm)		MINIMUM VERTICAL CLEARANCE (mm)	
	≤ DN300	>DN300 - ≤ DN375	≤ DN300	>DN300 - ≤ DN375
Gas Mains	600	600	150	300
Telecommunication conduits & cables	600	600	150	300
Electricity conduits & cables ≤ 415 V	600	1000	225	300
Electricity conduits & cables > 415 V	1000	2000	500	500
Stormwater & similar drainage conduits	300	600	150	300
Kerb & Channel	150 to MH	150 to MH	500	500
Sewers	300	300	150	300
Water Mains ≤ DN375	1000	1000	500	500
Water Mains > DN375	1000	1000	500	500
Poles, pits & small structures ≤ 2m long adjacent to main	150	300	-	-

Clearance to sewer transfer mains (rising mains & pressure pipelines) shall be as per Tables 1.1 & 1.2.

MRC's agreement shall be obtained in writing for minimum clearance to existing sewer mains of > DN375, any above ground mains and proposed services not covered in Table 2.1.

Clearance shall be taken as the nearest point of the service/works to the outside of the sewer conduit except as noted otherwise. A minimum horizontal clearance of 1000 mm to above ground obstructions shall be provided around maintenance structures clear of the opening to facilitate maintenance.

Services shall cross sewer mains at 90 degrees where possible but not less than 45 degrees.

Drainage conduits > DN450 crossing over sewer mains where vertical clearance is less than 750 mm shall be 'bridged' over the sewer supported on reinforced concrete stools or similar supports.

Water mains shall cross above sewer mains. Where no alternative exists, the water main shall be sleeved extending a minimum of 3m either side of the sewer main. The main shall be located centrally within the sleeve.

7.0 Review of Policy

This policy will be reviewed when any of the following occur:

1. The related documents are amended or replaced.
2. Other circumstances as determined from time to time by a resolution of Council

Notwithstanding the above, this policy is to be reviewed at intervals of no more than three (3) years.

Version Control:

Version	Reason / Trigger	Change	Endorsed / Reviewed	Date
2	Review of Policy	Minor administrative amendments	Council	27.02.2019