



Mapping the Future NORTHERN TERRITORY GOVERNMENT

Mapping the Future Project - Gunn Point

GROUNDWATER RESOURCES of the GUNN POINT AREA

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Bibliographic reference: Wolmann, M. (2020) Mapping the Future Project Groundwater Resources of the Gunn Point Area. Technical Report 5/2020. Department Environment and Natural Resources, Darwin, NT.

MAP LOCALITY: Includes map of Northern Territory and a detailed map of the Gunn Point area.

BORE LOCATIONS: Map showing the locations of various boreholes across the study area.

Cartography by: Deborah Mullin - Geospatial Services, Department of Environment and Natural Resources, Northern Territory of Australia. Map Reference: DENR2019172_MTF_Gunn-Point_Water March 2020.

GROUNDWATER RESOURCE RISK

GROUNDWATER RESOURCE RISK CLASSES:

- Class 1 - LOW - Fresh and annual recharge:** Fresh water quality (EC < 1000 us/cm), annual recharge, not impacted by saline groundwater. Shallow depth access to productive aquifer.
- Class 2 - MINOR - Fresh but limited annual recharge:** Fresh water quality (EC < 1000 us/cm), minor to no annual recharge, not impacted by saline groundwater. Medium to deep depth access to productive aquifer.
- Class 3 - MODERATE - Fresh to brackish and saline impacted:** Fresh to brackish groundwater (EC 450 - 2000 us/cm), impacted by saline groundwater. Mixed depth access to aquifer.
- Class 4 - HIGH - Brackish and saline impacted:** Brackish groundwater (EC > 2000 us/cm), impacted by saline groundwater. Deep depth access to aquifer.
- Not Assessed:** Grey shaded areas.

BORE YIELD CLASSES:

- Dud (Red dot)
- 0 to 1 L/s (Light Blue)
- 1 to 2 L/s (Medium Blue)
- 2 to 5 L/s (Dark Blue)
- 5 to 10 L/s (Very Dark Blue)
- > 10 L/s (Black)

PROPOSED HOWARD WATER MANAGEMENT ZONES: North, Central, East, West, South.

GENERAL FEATURES: Extent of mapping, Property boundary, Pastoral homestead, Road (sealed/unsealed), Coastline, Drainage area / line, Spot height (m AHD).

Important Notice: The Department of Environment and Natural Resources has made every reasonable effort to provide current and accurate information, but it does not make any guarantees regarding the accuracy, currency or completeness of the information.

Mapping the Future Project - Gunn Point: The project has identified land capability, water availability and biodiversity values to support land planning and inform development potential over the Gunn Point area. Reports and maps can be viewed from the Mapping the Future webpage: <https://denr.nt.gov.au/programs-and-strategies/mapping-the-future>.

References: Cruckshank, S. (2020). Mapping the Future Project - Gunn Point. Development Potential of the Gunn Point Area. Technical Report 3/2020. Department of Environment and Natural Resources, Darwin, NT. Stokeld, D., Leiper, J., Cliff, N., Cowie, I., Lewis, D. and Einoder, L. (2020). Mapping the Future Project - Gunn Point. Biodiversity Assessment of the Gunn Point Area. Technical Report 4/2020. Department of Environment and Natural Resources, Darwin, NT. Wolmann, M. (2020). Mapping the Future Project - Gunn Point. Groundwater Resources of the Gunn Point Area. Technical Report 5/2020. Department of Environment and Natural Resources, Darwin, NT. Palmer, C. and Smit, N. (2020). Mapping the Future Project - Gunn Point. Marine and Coastal Biodiversity Assessment of the Gunn Point Area. Technical Report 6/2020. Department of Environment and Natural Resources, Darwin, NT. Napier, D., Edmeades, B. and Green, C. (2020). Mapping the Future Project - Gunn Point. Vegetation Communities of the Gunn Point Area. Technical Report 8/2020. Department of Environment and Natural Resources, Darwin, NT. Eassey, D., Lynch, B. and Edmeades, B. (2020). Mapping the Future Project - Gunn Point. Soil and Land Resources of the Gunn Point Area. Technical Report 7/2020. Department of Environment and Natural Resources, Darwin, NT. Eassey, D., Brocklehurst, P. and Emberg, J. (2017). Agricultural Land Suitability Series, Report 7. Soil and Land Suitability Assessment for Irrigated Agriculture in the Gunn Point Area. Technical Report 5/2020. Department of Environment and Natural Resources, Darwin, NT.