



Madora Bay East Stage 2B

Client:
NG Perry Testamentary Trust

Location:
Mandurah WA

Construction Period:
Jul 14 – Jan 15

Project overview

This Stage 2B of the multi-stage Madora Bay land development project by NG Perry Testamentary Trust provides 34 beachside lifestyle residential lots and abuts the popular pristine Madora Bay. The civil works comprised of the main subdivisional infrastructure and a new 800m long 150/225mm diameter trunk sewer along Orelia Street and Challenger Road, which was installed using a trenchless technique. The main subdivisional works entailed about 40,000m³ of cut and fill earthworks, 1km of retaining walls, 1.2km of sewers, stormwater drainage system mainly using StormTech infiltration units for stormwater runoff, storage and infiltration, water reticulation, gas, power and communication underground services. The new trunk sewer provides new connections to 22 of the existing dwellings along Orelia Street and Challenger Road.

With our Trenchless Technology team, DM Civil is the one-stop subdivisional and underground services contractor.

Significant achievements and benefits

A major scope of the project was to install sewer along Orelia Street and Challenger Road by trenchless techniques, including lot connections to established homes. DM Civil's Trenchless Technology team completed this work seamlessly with minimal disruption to local residents, leaving the primary project team to focus on the subdivisional work.



To complete the sizeable scope of earthworks in the tight construction period, 2 Cat 639 twin-engine scrapers were used to shape the project site to the rough design profile. Any excess was carted to a distant stockpile area. Final trimming of lots and road box-out was done by graders and smaller machinery. This combination enabled us to accomplish the earthworks within the project time frame and budget.

Stencilled asphalt was used at intersections which produced superior results to the conventional brick paving surfaces. It was cost effective, faster to install and has become increasingly popular in the Mandurah area.

The Mandurah coast line is known for its windy conditions. That, combined with the sandy nature of the site soils meant that dust control needed to be considered when planning and executing the works.

Strong easterly winds and the prevailing "southerly buster" sea breeze were a regular occurrence. By strategically placing wind fencing and the utilisation of a full time water cart, it was possible to execute the works without causing inconvenience to the residents. The low number of complaints was a testament to the strategies put in place by DM Civil.

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Adding to the list of land development projects completed by DM Civil including Tuckey Cove and Central Park, DM Civil is fast becoming a significant player in the Mandurah land development market.

Contact DM Civil to discuss your land development projects.

GUARANTEED PERFORMANCE

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