



MORDIALLOC FREEWAY
OCTOBER 2018

ENVIRONMENT EFFECTS STATEMENT



Surface Water

The 9km Mordialloc Freeway will improve access to Melbourne's south-eastern suburbs, completing the missing link from Frankston to Clayton.

We've now undertaken 13 key investigations to fulfil our requirements as part of the Environment Effects Statement (EES).

We engaged a team of technical experts to undertake detailed investigations for the project. Field assessments and water modelling were carried out to understand how the construction and operation of the freeway could impact upon surface water systems in the area. The investigations undertaken by our technical experts will help inform how we manage the potential impacts of the project.

The full report of this study is available in Chapter 16: Surface Water of the EES Main Report.

What our studies found

Understanding the local water systems

While undertaking their investigations, our technical experts identified key sites within the Dandenong catchment area and Mordialloc Creek waterway system that our project could potentially impact. These sites include the:

- Woodlands Industrial Estate
- Mordialloc Creek Wetlands (also known as the Waterways Wetlands)
- Edithvale Wetlands

The Edithvale Wetlands are remnant ecosystems in the southern part of the Mordialloc Creek waterway system and form part of the Edithvale-Seaford Wetlands. These wetlands provide important habitat for wildlife and have been identified as internationally significant.

The studies undertaken show that the wetlands are not expected to be impacted by the freeway.

This is explained in more detail in Chapter 22: *Matters of National Environmental Significance*.

Maintaining water quality

The surface water studies undertaken show that most activities during construction have a low chance of impacting key water systems in the project area, including:

- Reduced water quality from pre-construction geotechnical investigations
- Fuel and chemical spills and sedimentation of waterways
- Impacts on local hydrology during construction works due to temporary diversion of overland flows and reductions in floodplain storage.

During construction, water quality may be reduced by sediment-laden runoff caused by:

- Erosion of disturbed or cleared land
- Run off from haulage routes, stockpiles and storage areas.

The construction of the project has the potential to change flood water movements or reduce flood plain storage.

Minimising impacts during operation

We have included grass and bio-retention swales in our road design to help remove pollutants from the surrounding waterways and wetlands, including contaminated road run-off, oil, and grease.

At Lower Dandenong and Centre Dandenong roads the surface water modelling carried out indicates that the proposed mitigation will decrease the pollutant load to below Water Sensitive Road Design (WSRD) targets. Any exceedance is not expected to have negative impacts on the environment.

The modelling carried out also looked at flooding scenarios, including a one-hundred-year flood event that has a 1% probability of occurring in any given year. The investigations show that the freeway would not have any additional impact to flooding of local residential areas in the event of this scale of flooding.

Being accountable for what we do

We have established Environmental Performance Requirements (EPRs), which define the environmental outcomes we will achieve during the design, construction and operation of the Mordialloc Freeway.

Our EPRs will ensure the nearby water systems maintain their hydrological values both during and after construction.

A full list of our EPRs can be found in Chapter 16: Surface Water of the EES Main Report.

EES Documentation:

You can view the full EES documentation

Online: roadprojects.vic.gov.au/projects/mordialloc-freeway

In person at:

- Mordialloc Freeway Info Hub
- City of Kingston offices
- City of Greater Dandenong offices
- Chelsea Library
- Springvale Library
- State Library of Victoria
- Department of Environment, Land, Water and Planning (Melbourne offices)



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