

# Vasse Diversion Drain Upgrade

Value \$25M



Works completed under VJV - Vasse Joint Venture (JWI Contractors & Westforce Construction)

## FACTS

<b>Client</b>	Water Corporation	<b>Division</b>	Dams&Water
<b>Contact</b>	Joel Mclure		Infrastructure;
<b>Location</b>	Busselton, WA	<b>Commenced</b>	November 20
		<b>Completed</b>	June 20

## PROJECT OVERVIEW

The project involved reconstruction and widening of ~10.8km of levee banks including concrete wall raising one section of the levee. Reconstruction of the zoned Vasse River Diversion Dam embankment including the construction of a concrete overflow structure as well as two concrete water monitoring and gauging stations along the drain. The project also involved design and construction of an extension to the steel truss pedestrian bridge. The works involved multiple challenges including working in residential areas, multiple environmentally sensitive issue and factors, limited working area, and challenging program requirements. The works were undertaken in one season and were completed ahead of schedule and underbudget.

## SPECIFICATIONS

<ul style="list-style-type: none"> <li>Clearing including hand relocation of endangered western ringtail possums = 22,000m2</li> </ul>	<ul style="list-style-type: none"> <li>Major Structural Steelwork (inc new ~12m steel bridge extension)</li> </ul>
<ul style="list-style-type: none"> <li>Bulk Earthworks = 510,000m3</li> </ul>	<ul style="list-style-type: none"> <li>Mortared stone pitching / rock protection = 7,700m2</li> </ul>
<ul style="list-style-type: none"> <li>Gravel pavements= 45,000 m2</li> </ul>	<ul style="list-style-type: none"> <li>Rock Gabions = 2,150m2</li> </ul>
<ul style="list-style-type: none"> <li>Topsoil replacement &amp; Hydromulch = 220,000m2</li> </ul>	<ul style="list-style-type: none"> <li>Limestone Block walls = 4,800 Blocks</li> </ul>
<ul style="list-style-type: none"> <li>Cast Insitu Reinforced Concrete = 3,000m3</li> </ul>	<ul style="list-style-type: none"> <li>Culverts up to 1200mm diameter = 200m</li> </ul>
<ul style="list-style-type: none"> <li>CFA Piling for bridge pier</li> </ul>	<ul style="list-style-type: none"> <li>Cast insitu and precast headwalls, floodgates and exclusion grating</li> </ul>
<ul style="list-style-type: none"> <li>Sheet Piling - 200m</li> </ul>	<ul style="list-style-type: none"> <li>Water Management &amp; coffer dam design and construction</li> </ul>
<ul style="list-style-type: none"> <li>Acid Sulphate Soil treatment = 21,500 m3</li> </ul>	<ul style="list-style-type: none"> <li>Dewatering and dewatering effluent treatment</li> </ul>