

## Method Statement

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| <b>Project Name:</b>                   | <b>A. Ferox Storm Water Upgrades</b>  |  |
| <b>Project No.:</b>                    | <b>10082001</b>   |  |
| <b>Description of Works:</b>           | <b>Installation of concrete step spillway, rehabilitation of gabion weir and bio-conveyance channel and</b> |  |
| <b>Project Duration:</b>               | <b>24 weeks (6 months)</b>  |  |
| <b>Item</b>                            | <b>Detail</b>   |  |
| <b>1. Pre-construction Preparation</b> |   |  |
| <b>1.1 Site Clearance</b>              | 1.1.1   | Clear and grub vegetation and identified trees of girth up to 1m. Estimated disturbed area of 400m <sup>2</sup>                      |
|  | 1.1.2   | Remove and grub trees and tree stumps of girth over 1,0 m up to and including 2,0m   |
|  | 1.1.3   | Dismantle and remove upstream gabion structure and store rock for reuse in stilling basin  |
|  | 1.1.4   | Dismantle and remove embankment tyres, fence and rubble and temporary stabilize  |
|  | 1.1.5   | Remove topsoil to nominal depth of 150 mm and stockpile. Estimated disturbed area of 400m <sup>2</sup>                               |
|  | 1.1.6   | Replace/spread topsoil removed to a minimum depth of 100mm   |
|  | 1.1.7   | Remove, store, maintain & replant grass sods after completion of construction  |
|  | 1.1.8   | Remove and replace encroaching fence on western embankment   |
| <b>2. Bio-conveyance Channel</b>       |   |  |
| <b>2.1 Rehabilitation</b>              | 2.1.1   | Trim no more than 25% on Milkwood tree   |
|  | 2.1.2   | Clear grass at Nerina Road culvert   |
|  | 2.1.3   | Remove, rehabilitate and reinstate downstream gabion weir  |
| <b>3. East Embankment</b>              |   |  |
| <b>3.1 Gabion Retaining Wall</b>       |   | <b>Earthworks</b>  |
|  | 3.1.1   | Remove topsoil to a nominal depth 150 mm, stockpile & maintain   |
|  | 3.1.2   | Excavate in all materials and use for embankment or backfill or dispose, as ordered & compact in 200mm layers to 93% MAASHTO density |
|  |   | <b>Excavations</b>   |

|       |  |
|-------|--|
| 3.1.3 | Excavate in all materials to level & line for foundation footings, compact to the approval of the Engineer. Surplus material to be disposed of on a site provided by the Contractor. |
|       | <b>Unsuitable Material</b>   |
| 3.1.4 | Excavation of unsuitable material from behind the wall where so instructed by the Engineer.  |
|       | <b>Backfill Material</b>   |
| 3.1.5 | Imported backfill material (G7) from a commercial source where so instructed by the Engineer and compact to 95% MAASHTO density in layers not exceeding 300 mm.                      |
|       | <b>Gabion Wall</b>   |
| 3.1.6 | Supply all material and labour to construct "Terraforce L11" coloured rock face or approved equivalent retaining block wall. Colour & texture to be determined by the Employer.      |

#### 4. West Embankment

|                |       |  |
|----------------|-------|--|
| 4.1 Clay Layer |       | <b>Earthworks</b>  |
|                | 4.1.1 | Remove topsoil to a nominal depth 150 mm, stockpile & maintain   |
|                | 4.1.2 | Excavate in all materials and use for embankment or backfill or dispose, as ordered & compact in 200mm layers to 93% MAASHTO density   |
|                |       | <b>Excavations</b>   |
|                | 4.1.3 | Excavate in all materials to level & line for foundation footings, compact to the approval of the Engineer. Surplus material to be disposed of on a site provided by the Contractor. |
|                |       | <b>Unsuitable Material</b>   |
|                | 4.1.4 | Excavation of unsuitable material from behind the wall where so instructed by the Engineer.  |
|                |       | <b>Backfill Material</b>   |
|                | 4.1.5 | Imported backfill material (G7) from a commercial source where so instructed by the Engineer and compact to 95% MAASHTO density in layers not exceeding 300 mm.                      |

#### 5. Stilling Basin

|                                  |       |  |
|----------------------------------|-------|--|
| <b>5.1 Upstream Channel</b>      |       | <b>Earthworks</b>  |
|                                  | 5.1.1 | Remove topsoil to a nominal depth 150 mm, stockpile & maintain   |
|                                  | 5.1.2 | Excavate in all materials and use for embankment or backfill or dispose, as ordered & compact in 200mm layers to 93% MAASHTO density   |
|                                  |       | <b>Excavations</b>   |
|                                  | 5.1.3 | Excavate in all materials to level & line for foundation footings, compact to the approval of the Engineer. Surplus material to be disposed of on a site provided by the Contractor. |
|                                  |       | <b>Unsuitable Material</b>   |
|                                  | 5.1.4 | Excavation of unsuitable material from behind the wall where so instructed by the Engineer.  |
|                                  |       | <b>Backfill Material</b>   |
|                                  | 5.1.5 | Use rock from upstream dismantled gabion as backfill for stilling basin  |
| <b>6. Step Spillway and Wall</b> |       |  |
| <b>6.1 Concrete Work</b>         | 6.1.1 | Construct step spillway complete with shuttering as per Drawing 10082001-400   |