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AUTHORISATION

As Manager Materials Engineering I authorise the issue and use of this Product Standard on behalf of the Commissioner of Main Roads.

MANAGER MATERIALS ENGINEERING

Date: _____/_____/_____

All controlled Copies shall be marked accordingly.
CONTENTS

1. PURPOSE .................................................................................................................. 4
2. SCOPE ....................................................................................................................... 4
3. SPECIFICATION ....................................................................................................... 4
4. SALINITY RISK MANAGEMENT FLOWCHART ......................................................... 5
<table>
<thead>
<tr>
<th>Section No.</th>
<th>Page No</th>
<th>Latest Revision Date</th>
<th>Revision Description/Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specification</td>
<td>1</td>
<td>July 2007</td>
<td>Included as a dot point the following: “Gained required approvals to use the water”.</td>
</tr>
<tr>
<td>Figure 1</td>
<td>5</td>
<td>Dec 2013</td>
<td>Deleted reference to Prime to exclude application of MCC on basecourse</td>
</tr>
</tbody>
</table>
STANDARD FOR WATER TO BE USED IN PAVEMENT CONSTRUCTION

PURPOSE

To specify the requirements for water used in pavement construction and procedures used to minimise the risks involved.

SCOPE

The specification applies only to water used in the construction of road pavements and is NOT for water used in concrete.

SPECIFICATION

Water intended for use in pavement construction shall be potable, or shall contain not more than 3000 mg/L of Total Soluble Salts (TSS) when tested in accordance with Test Method WA 910.1, (or other authorised method).

The Superintendent may authorise the use of other water only if the contractor has:

- Tested the water to be used,
- Assessed its suitability and risk,
- Proposed construction and surfacing practices to minimise the risk and
- Gained required approvals to use the water

The minimum risk management strategy and minimum construction and surfacing practices shall be adopted in order to minimise the effects of the ‘total salinity’ of the soil, in accordance with Figure 1, Salinity Risk Management Flowchart.

The ‘total salinity’ of the soil is expressed as the percentage of total soluble salts (%TSS) after the addition of the water.
Figure 1 SALINITY RISK MANAGEMENT FLOWCHART

Determine salinity of compaction water (TSS mg/L)

TSS < 3000 mg/L

Yes

No

Measure soil salinity and calculate likely total salinity after compaction (%TSS water + soil).

Yes

< 0.150% TSS

Yes

Manage construction to reduce risk by minimising water added and evaporation, (dryback still required) and brooming any salt off the surface.

< 0.150% TSS

No

< 0.250% TSS

No

Low Risk
Normal construction as specified.

Medium Risk
Minimum treatment;
Apply Class 170 2 coat seal (14mm/10mm, 16mm/10mm or 14mm/7mm) within 4 days of completing pavement.
Traffic immediately or implement extended rolling.

High Risk
Minimum treatment;
Apply Class 170 two coat seal (16mm/10mm, 14mm/10mm or 14mm/7mm) within 2 days of completing pavement.
Traffic immediately or implement extended rolling.