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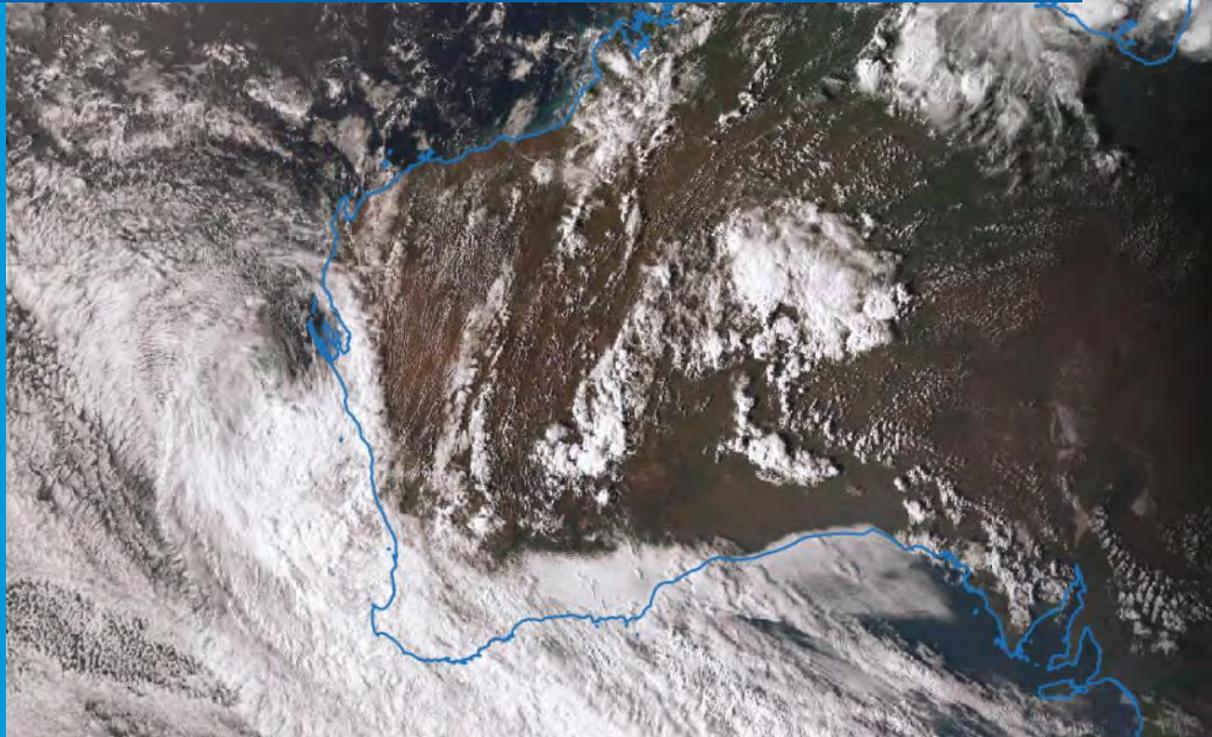
Shire of Narembeen

WANDRRA AGRN743

Damage Assessment & Cost Estimate Report

Flooding in Western Australia (January and February 2017)

Revision 0



DOCUMENT CONTROL

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Core Business Australia PO Box 797 Busselton WA 6280 Ph: +61 8 9754 1117 Mobile: +61 418 931 067 Email: bruce@corebusiness.net.au	Document: Damage Assessment & Cost Estimate Associated with AGRN743 for the Shire of Narembeen Rev 0
	Project Director: Bruce Lorimer Project Manager: Kim Edmeades Cost Estimator: Kim Edmeades / Jason Song Cost Review: Bruce Lorimer Report Author: Bruce Lorimer Date: 19 April 2017
	Synopsis: This document outlines provides details of the damage assessment and cost estimate to repair essential public assets as a result of flooding in the Shire of Narembeen associated with WANDRRA declared event "AGRN743 Flooding in Western Australia (January and February 2017).

DISTRIBUTION SCHEDULE

Revision No.	Date	Distribution	Reference
Revision 0	19 April 2017	Draft 1 for Client Review	543 Narembeen WANDRRA AGRN743 Damage Assessment & Cost Estimate Report (Rev 0) [Ver 1].docx
Revision 1			
Revision 2			
Revision 3			

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1.0 Introduction

Over the period of January / February 2017, parts of the State received severe rainfall with record levels being recorded in several locations. These rain events from the Kimberley through the Mid-West and Goldfields-Esperance are linked notwithstanding the vast geographical distance between those regions.

A tropical low over the Kimberley was responsible for the rain in that area and then as the low tracked through the Pilbara it was to become the moisture source for the rain band that impacted the South and Southwest of Western Australia. An upper level trough in the Southern Ocean linked with the moisture from the tropical low and hence we saw the widespread heavy rainfall. The resulting floods were undoubtedly enhanced because catchments were saturated due to previous rainfall across much of the same areas.

For the purposes of WANDRRA this event will be referred to as ‘Flooding in Western Australia (January and February 2017)’.

WANDRRA is jointly funded by the State and Commonwealth Governments and administered by the Office of Emergency Management (OEM), with assistance from other agencies. Through WANDRRA, the Western Australian and Commonwealth Governments provide help to people who have suffered the direct impact of a proclaimed natural disaster event.

The local government authorities subject to this proclamation include the Shire of Narembeen, the subject of this report.

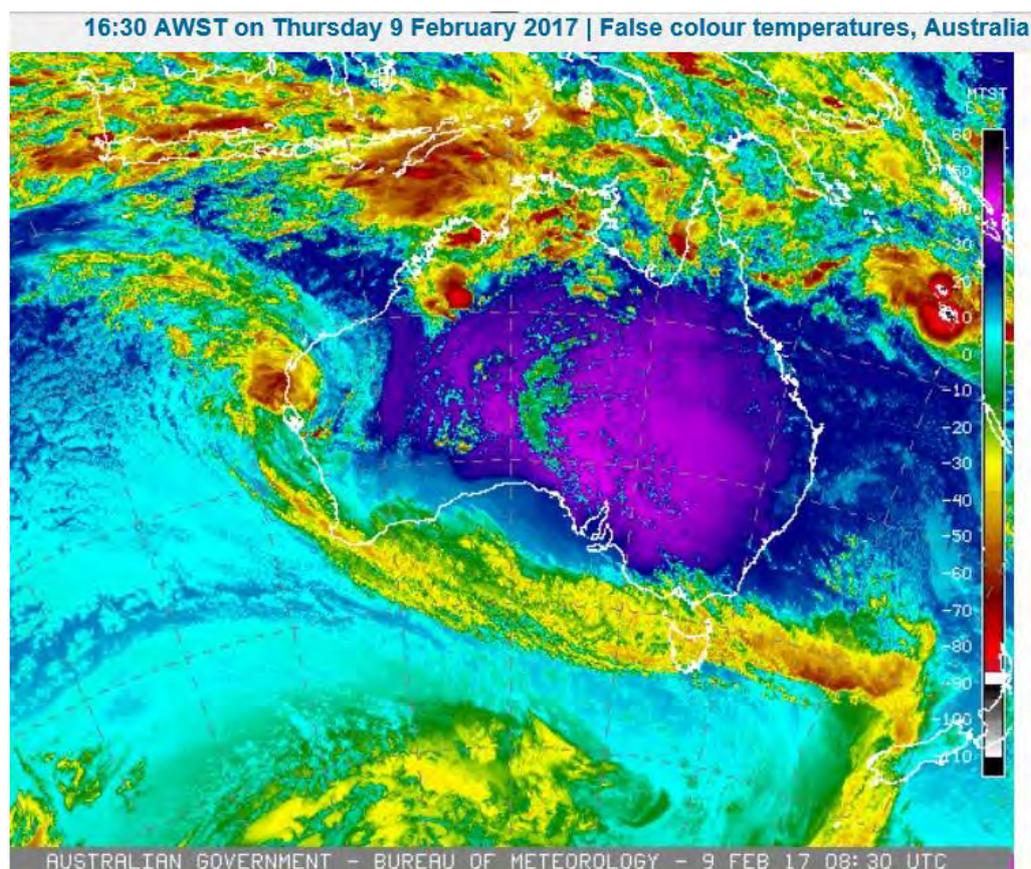


Figure 1: False Colour Temperature Satellite Image of the Rainfall Event associated with the Flooding (Source: BOM)

Process for Undertaking the Project

Under the WANDRAA activation conditions it has been declared that assistance may be available to: **Local Governments & State Government Agencies** – *‘for clean-up costs, the repair and restoration of essential public assets including local road damage’*. Only costs incurred that are **‘additional’ costs** (e.g. contractors), and are directly related to the event will be eligible for reimbursement.”

1.1 Time Limit for Claims

The allowable time limit for eligible claims **expires on June 30 2019**.

1.2 Approach to Reinstatement of Essential Public Assets

This Shire intends to contract the majority of opening-up and reinstatement works to contractors as their own resources are already committed to routine maintenance and / or the capital works program. Some work was carried out initially by the Shire as opening-up works immediately after the storm. These costs have been documented but as per the December 2016 WANDRRA Guidelines, are not claimable.

After assessing the damages and having discussions with Shire staff it is recommended to contract all the works on an hourly/daily rate. The benefits of this are:

- Cost savings as there is little requirement to fully scope / document the schedule of works in order to develop tender documentation to engage contractors.
- Smaller activities would give more opportunity for local contractors to participate.
- Reduction in time to commence works to be carried out.
- Easier to control / supervise activities and allow more scope for changes without additional costs or delays.
- The potential for work to be shared among several contractors over the period to ensure all works are completely in a timely manner.

1.3 Assets Affected

The damage was wide spread throughout the Shire, with the majority of the damage was confined to the south – west corner and mainly consists of road carriageway and road shoulder scours, areas where unsealed gravel road pavements have been washed away, destroyed or blocked piped culverted, destruction or dislocation of culvert headwalls and silting of table and cut-off drains.



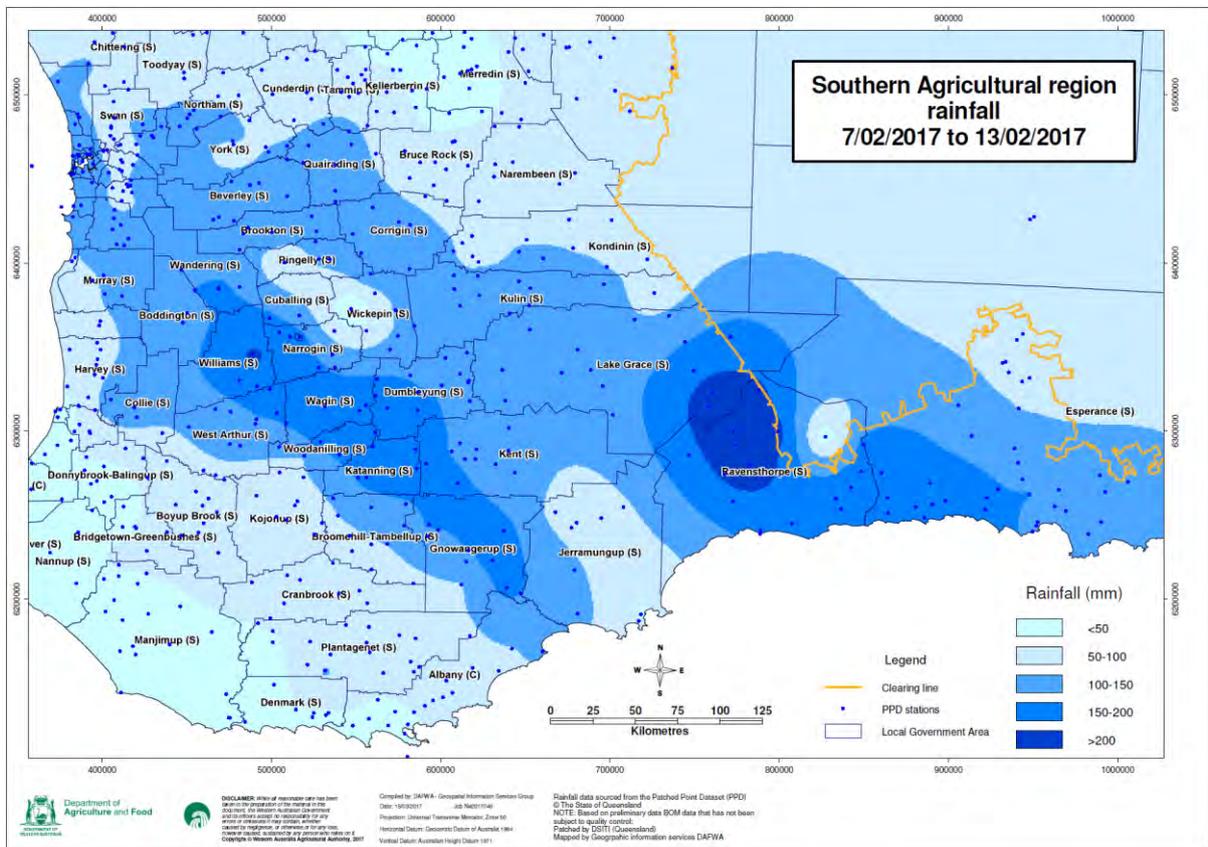
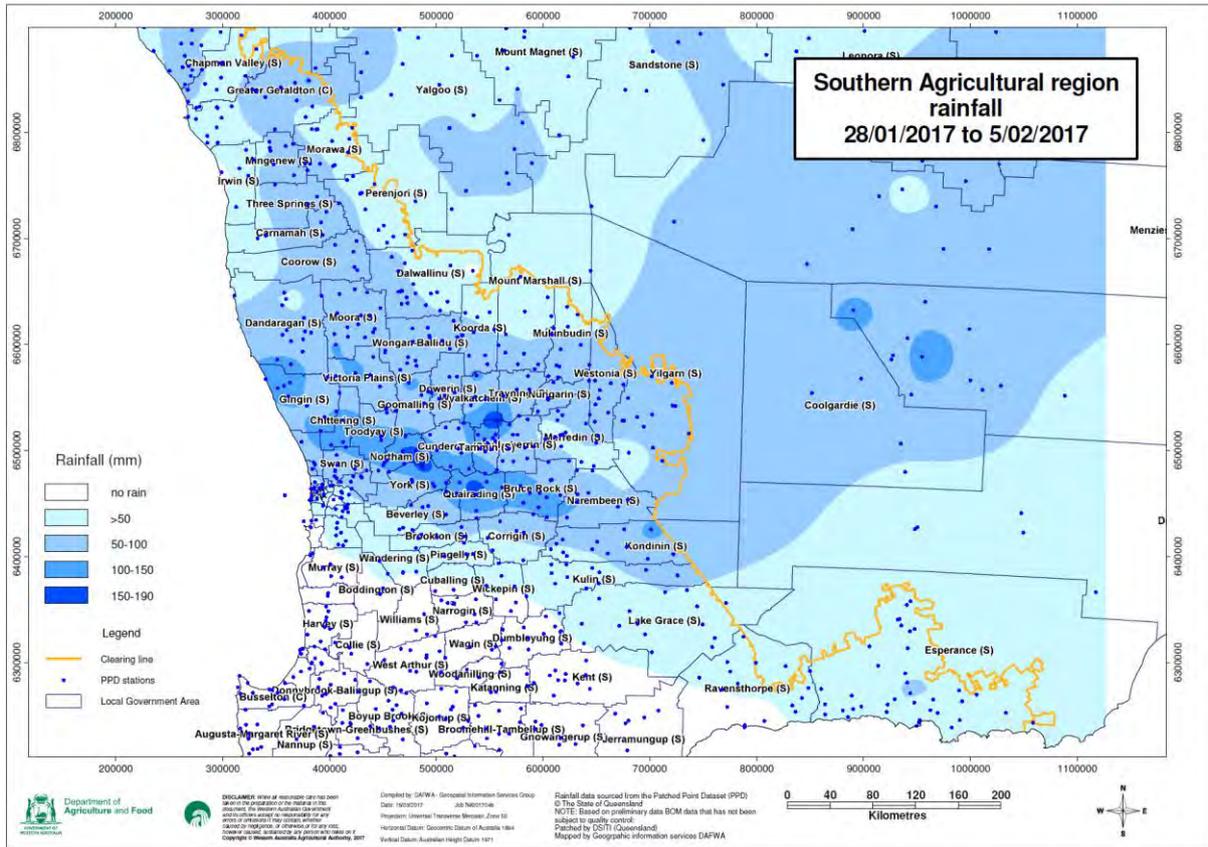


Figure 2: DAFWA Maps of Rainfall associated with the Flooding Event

1.4 Order of Magnitude Investigation

Core Business Australia (CORE) was engaged by the Shire of Narembeen to supervise restoration work. CORE was engaged under WALGA's Asset Management Preferred Supplier contract as WANDRRA funding is for the restoration of essential public assets.

CORE commenced the project by immediately mobilising Bruce Lorimer & Jason Song to Narembeen to meet with the Shire and undertake an Order of Magnitude assessment. This consisted of discussions with the Shire's CEO, Chris Jackson and Works Manager, Arthur Cousins and a brief tour of the damage in order to gain an understanding of the nature and extent of the damage. From the initial inspection, a "Gut Feel" Order of Magnitude cost was able to be provided to Main Roads Western Australia and CORE was then able to plan the logistics associated with the damage assessment exercise.

1.5 Counter Disaster Operations

The Shire was responsible for Counter Disaster operations during and immediately following the event.

1.6 Opening - up Work

The Shire undertook an initial assessment of damage and limited opening up work with the focus being on bus routes and ensuring road safety was maintained through the installation of appropriate traffic management measures. The Shire engaged Leeuwin Civil through the WALGA Preferred supplier panel to undertake some of the opening up works on Bus Routes. Where works could be undertaken through usual maintenance practices, these issues were identified and either repaired as part of the Shire's ongoing maintenance program or scheduled for repair at a later date as part of the Shire's maintenance program.

2.0 Damage Assessment & Cost Estimate

Detailed damage assessment was undertaken by CORE over the period March 8 – 14 & 20 - 27 2017. Following return to the office, cost estimation to reinstate the assessed damage was undertaken with a summary as follows for Rev 0 of the estimate. Please note that this estimate is not fixed and may vary significantly once on-site works commence. Nonetheless, this Rev 0 estimate provides a good understanding of the scope of work, potential cost and is suitable as a basis to call tenders to engage contractors to undertake the reinstatement.

2.1 Cost Estimate Summary (Rev 0)

Allowance for Supervision (@TBC%)	\$TBC
Reinstatement Works	\$4,637,816
Total (Rev 0) Cost Estimate	\$

Attachment A - Detailed (Rev 0) Damage Assessment & Cost Estimate



Disaster Relief and Recovery Arrangements NDRRA or Abnormal Event

Cost Estimate

Date of Event : January / February 2017
 NDRRA or Abnormal Event : NADRRA
 If NDRRA, please provide Event Name : Flooding in Western Australia (January and February 2017) AGRN: 743
 If Abnormal Event, please describe below :

Name of Applicant : Shire of Narembeen

Cost Estimate details

WORKS SCHEDULE AGRN : 743 SHIRE OF NAREMBEEN

Prepared by Core Business Australia Cost Estimate Rev 0, March 30 2017 Total Cost \$ **4,637,816**
Plus Supervision

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
	All Roads below								Supervision @ TBC%	\$ TBC
4170037	Church	10.04	10.31	270m	1054 1055 1057			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 10,000
					1067 1069 1071			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
4170030	Tank North Rd	0.00	0.10	100m	1074 1077 1081			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick cement stabilised gravel resheet to this section of road.	\$ 2,500

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		0.29	0.29	0m	1088 1086 1087			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 3,000
		2.21	2.70	490m	1090 1092 1095			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 12,000
		2.93	4.88	1,950m	1100 1093 1107			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 50,000
		6.90	8.35	1,450m	1132 1134 1137			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 37,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		8.60	9.41	810m	1141 1145 1152			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 20,000
4170015	Wogarl West Rd	14.05	14.68	630m	1202 1205 1207			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 14,500
		17.90	17.93	30m	1159 1161			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 1,000
		17.92	17.92	0m	1153 1154			Culvert blocked ,severe washout to culvert headwall, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Repair headwalls and install new guide posts to MRWA standards	\$ 5,000
		19.59	19.99	400m	1163 1166 1168			Scouring and silting of table drains ,minor loss of pavement gravel and fines one side only	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) one side only	\$ 2,500

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170017	Yawerlin Creek Rd	0.02	0.02	0m	1169 1171			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 3,500
		0.02	0.94	920m	1175 1177 1178			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 25,000
		0.94	1.55	610m	1181			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 15,000
		2.08	2.39	310m	1182 1188			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 8,000
		2.60	2.82	220m	1194 1195			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 6,000
		3.81	4.77	960m	1196 1200 1201			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 24,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170103	Bruce Rock East Rd	0.00	1.00	1,000m	1212 1217 1219			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 25,000
		1.30	3.43	2,130m	1224 1225 1226			Bruce Rock East Road	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 25,000
		4.37	4.85	480m	1127			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 12,000
4170110	Butler Boundary Rd	2.23	2.48	28m	1228 1229			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 1,000
		0.00	2.23	2,230m	1230 1231 1233			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 55,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170031	Roach Rd	0.40	1.18	780m	1112 1114 1115			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 20,000
		1.49	2.10	610m	1129 1130 1131			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 15,000
		7.34	8.10	760m	1241 1244 1260			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 20,000
					1244 1247 1249			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
					1258 1263 1264			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		5.32	5.32	0m	1265 1268 1269			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 3,500
		2.50	7.34	4,840m	1275 1277 1280			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 116,000
					1290 1304 1307			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
4170004	Soldiers Rd	8.71	9.03	320m	1313 1316 1319			Construction Grade and reform batters and shoulders	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick cement stabilised gravel resheet to this section of road.	\$ 10,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170010	Yeomans	25.29	25.32	30m	1320 1322 1323			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 5,000
		17.65	17.65	0m	1325 1326 1328			Culvert blocked ,severe washout to culvert headwall, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Repair headwalls and install new guide posts to MRWA standards	\$ 10,000
		15.96	15.96	0m	1329 1330 1331			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 5,000
		15.93	15.99	60m	1332 1333			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thickcement stabilised gravel resheet to this section of road.	\$ 10,000
		4.46	4.50	40m	1334 1336 1337			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thickcement stabilised gravel resheet to this section of road.	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170018	Dixon Rd	0.05	0.74	690m	1338 1340 1342 1344			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 19,320
					1350 1354 1361			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
		0.74	0.80	60m	1,363m			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 2,000
		5.94	5.94	0m	1401 1403			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 3,000
		16.24	17.46	1,220m	1467 1469 1478 1480			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 30,500

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		25.84	28.13	2,290m	1504 1505 1507			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 32,000
					1563 1565 1566			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
		27.80	27.80	0m	1567 1570			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 3,000
		27.85	27.85	0m	1571			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 3,000
4170074	Mortimore Rd	1.52	2.00	480m	1364 1365 1366			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 12,000
					1376 1377			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170029	Tudor Rd	1.80	1.85	50m	1384 1390 1396 1399			Concrete floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of surface generally due to overtop flooding. Loss of rock armour protection or none installed	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstale any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	\$ 10,000
		4.07	4.10	30m	1510 1511			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 2,000
4170075	Frederick Rd	0.00	4.02	4,020m	1407 1409 1413			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 100,000
					1415 1417 1418			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
					1420 1423 1424			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					1426 1429 1432			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
4170039	Wogarl Graball Rd	6.21	8.06	1,850m	1439 1441 1453			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 47,000
					1458 1460			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
4170033	Schwartz Rd	4.49	4.56	70m	1489 1494 1495			Gravel floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of gravel surface generally due to overtop flooding. Loss of rock armour protection or none installed	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement minimum 100mm thick. Replace rock armour protection to MRWA standards	\$ 15,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170034	Metcalf Rd	8.87	8.87	0m	1498 1501 1502			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 3,000
4170039	Wogarl Graball Rd	1.50	3.14	1,640m	1517 1521 1525			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 41,000
					1536 1537 1538			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
		3.38	6.20	2,820m	1541 1543 1550			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 70,500
					1559			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170105	Mt Walker South Rd	4.09	4.09	0m	1,567m			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 3,000
4170059	Chick Rd	2.40	3.00	600m	1580 1581 1582			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 13,500
4170122	South Kumminin Bin Rd	1.29	1.33	40m	1,583m			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 1,000
		0.00	1.04	1,040m	1585 1586 1589 1594			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 26,000
4170105	Mt Walker South Rd	1.75	1.81	60m	8474 8475			Culvert site shoulder scoured and eroded, embankment eroded and undermined, culvert concrete pipe exposed	Top up and reform shoulder, backfill and compact embankment	\$ 5,000
		1.83	2.20	370m	8,476m			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 555

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		2.54	3.40	860m	8477 8478			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 6,880
		3.40	3.45	50m	8479			Gravel floodway high level damage Some severe scouring of embankment/shoulder and loss of gravel surface generally due to overtop flooding	Remove debris and clean-up, reconstruct and compact embankment, shoulders and table drains and reconstruct pavement minimum 100mm thick	\$ 2,000
		3.44	3.44	0m	8480			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,000
		3.46	6.78	3,320m	8481 8482 8483			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ 39,840
					8484 8487 8488			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	
					8489 8490 8491 rev			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		6.80	6.80	0m	8493			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 2,000
		6.95	10.02	3,070m	8494 8495 8496			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 15,350
					8498 8499			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	
		9.37	9.37	0m	8497			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,500
4170044	Anderson Rocks Rd	33.00	34.40	1,400m	8506 8507 8508			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 5,600
		28.60	32.90	4,300m	8510 8511 8512			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ -

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					8513 8514			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), spt resheet 100 mm gravel in gravel areas	
		25.90	27.93	2,030m	8515 8516 8517			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 16,240
4170011	Hyden North Rd	13.61	13.61	0m	8519			Culvert Blocked, minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,500
		14.00	16.31	2,310m	8520 8521 8522			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 9,240
					8523 8524			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	
		16.56	16.64	80m	8,525m			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 3,200

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		16.50	19.72	3,220m	8526 8527 8528			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 19,320
					8529 8530			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	
		20.80	22.40	1,600m	8531 8532 8533			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), spt resheet 100 mm gravel in gravel areas	\$ 12,800
					8534			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), spt resheet 100 mm gravel in gravel areas	
		23.00	24.00	1,000m	8535			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 4,000
		25.10	25.40	300m	8536			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 1,800
		12.80	13.13	330m	8538			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thickcement stabilised gravel resheet to this section of road.	\$ 11,880

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		11.80	12.80	1,000m	8539 8540 8541			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 3,000
		11.60	11.72	120m	8542 8543			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ 1,680
		10.45	11.45	1,000m	8544 8545			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 8,000
		9.58	9.60	20m	8547			Gravel floodway low level damage Some minor scouring of embankment/shoulder damaged headwalls and stabilisation protection etc.	Remove debris and clean-up, reconstruct and compact embankment and shoulders and reinstate table drains	\$ 3,000
		9.61	9.61	0m	8546			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,500
4170080	Roe Rd	0.30	1.44	1,140m	8550 8551			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 3,420
		1.50	2.10	600m	8,552m			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 4,800

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		2.20	5.40	3,200m	8553 8554 8555			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ 38,400
					8556 8557			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	
		6.00	7.70	1,700m	8558 8559			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ 20,400
		8.00	8.90	900m	8,560m			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ 10,800
		9.50	10.32	820m	8561 8562 8563			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thickcement stabilised gravel resheet to this section of road.	\$ 29,520
4170011	Hyden North Rd	9.20	9.54	340m	8548 8564			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 1,020

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		7.80	8.80	1,000m	8566 8567 8568			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 3,000
		6.10	7.80	1,700m	8569 8570 8571			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ 43,000
					8572 8573 8574			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	
					8575 8576			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		5.30	5.75	450m	8577 8578 8579			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 900
		2.22	5.00	2,780m	8580 8581			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ 44,480
					8583 8584 8585			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	
					8586 8587			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	
		4.69	4.69	0m	8582			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,500
		1.68	1.72	40m	8588			Shoulder scoured and 1/3 pavement washed away	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thickcement stabilised gravel resheet to this section of road.	\$ 1,600

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		1.39	1.46	70m	8589 8590 8591			Sealed floodway high level damage Some severe scouring of embankment/shoulder and loss of sealed surface generally due to overtop flooding	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate table drains and reconstruct cement stabilised pavement and bituminous seal	\$ 5,000
					8592			Sealed floodway high level damage Some severe scouring of embankment/shoulder and loss of sealed surface generally due to overtop flooding	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate table drains and reconstruct cement stabilised pavement and bituminous seal	
		0.00	1.39	1,390m	8593 8594 8595			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), spt resheet 100 mm gravel in gravel areas	\$ 19,460
4170043	Hunter Rd	14.00	14.35	350m	8596			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), spt resheet 100 mm gravel in gravel areas	\$ 4,200
		7.70	13.30	5,600m	8597 8598 8599			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), spt resheet 100 mm gravel in gravel areas	\$ 89,600

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					8601 8602 8603			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	
					8604 8605 8606			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	
					8607 8608 8609			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	
					8610			Scouring and silting of table drains, loss of pavement gravel in some areas	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	
		7.50	7.60	100m	8611 8612 8613			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection or none installed (further investigation required)	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls (further investigation required), table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection (further investigation required)	\$ 10,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					8614			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection or none installed (further investigation required)	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstale any culverts and headwalls (further investigation required), table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection (further investigation required)	
		3.40	6.90	3,500m	8615 8616 8618			Scouring and silting of table drains both sides	Remove and dispose of silt where heavily silted, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 14,000
					8618 8619 8620			Scouring and silting of table drains both sides	Remove and dispose of silt where heavily silted, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	
					8621 8622 8623			Scouring and silting of table drains both sides	Remove and dispose of silt where heavily silted, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	
4170082	Roger Rd	7.35	7.35	0m	8625			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,500

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		4.00	7.13	3,130m	8626 8627 8628			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 9,390
					8631			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	
		4.84	4.84	0m	8629 8630			Culvert Blocked ,minor silt/debris in table drains, concrete pipe might be damaged (further inspection is required)	Clean out culvert, remove debris and silt from table drains, reinstate concrete pipe if damaged (further investigation required)	\$ 3,000
		0.10	0.37	270m	8632 8633			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 9,720
4170043	Hunter Rd	1.34	1.45	110m	8635			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thickcement stabilised gravel resheet to this section of road.	\$ 3,960
		0.00	1.34	1,340m	8636 8637			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 8,040
4170064	Erdman Rd	8.30	8.56	260m	8639			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 936

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		6.80	7.80	1,000m	8640 8641 8642			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), spt resheet 100 mm gravel in gravel areas	\$ 10,000
		4.80	5.60	800m	8643 8644			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), spt resheet 100 mm gravel in gravel areas	\$ 9,600
		4.39	4.42	30m	8645 8646			Gravel floodway medium level damage Some scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of gravel surface generally due to overtop flooding.	Remove debris and clean-up, reconstruct and compact embankment and shoulders, cleanout and reinstate any culverts and headwalls, table drains and reconstruct gravel pavement minimum 100mm thick.	\$ 2,000
		2.40	3.94	1,540m	8647 8648			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 2,310
		0.00	1.70	1,700m	8649 8650			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 3,400
4170023	Hedges East Rd	5.84	6.00	160m	8652			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 320

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		6.30	7.80	1,500m	8653 8654			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 3,000
		8.00	8.70	700m	8655			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 1,400
		9.10	9.53	430m	8656 8657			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), spot resheet 100 mm gravel in gravel areas	\$ 4,300
		10.08	10.08	0m	8658			Culvert Blocked, minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,500
		12.27	12.37	100m	8659 8660 8661			Culvert blocked ,severe washout to culvert headwall, silt debris in table drains	Clean out culvert and flow channel, remove debris and silt from table drains	\$ 3,000
		12.38	12.90	520m	8662			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 1,560
		13.25	13.90	650m	8663			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 1,950
		15.34	15.80	460m	8664			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 1,380

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		16.55	19.40	2,850m	8665 8666 8667			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade, top-up and compact shoulders and table drains (CG- Construction Grade)	\$ 8,550
					8668 8669			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade, top-up and compact shoulders and table drains (CG- Construction Grade)	
		20.63	20.66	30m	8670			Gravel floodway medium level damage Some scouring of embankment/shoulder and loss of gravel surface generally due to overtop flooding.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cleanout and reinstate any culverts and headwalls, table drains and reconstruct pavement minimum 100mm thick.	\$ 1,500
		20.66	20.66	0m	8671 8672			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 2,000
		21.70	22.88	1,180m	8673 8674 8675			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), spt resheet 100 mm gravel in gravel areas	\$ 14,160
					8676			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), spt resheet 100 mm gravel in gravel areas	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170081	Cavanagh Rd	5.20	6.11	910m	8678			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 1,820
		3.60	4.90	1,300m	8679			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 2,600
		2.80	3.28	480m	8680 8681	 		Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ 5,760
		1.00	2.30	1,300m	8682 8683	 		Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 2,600
4170023	Hedges East Rd	31.40	32.80	1,400m	8685 8686 8687	  		Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ 19,600
		23.02	31.20	8,180m	8688 8689 8690	  		Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ 163,600

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					8691 8692 8693			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	
					8694 8695 8696			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	
					8697 8698			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	
4170007	Emu Hill East Rd	43.10	43.10	0m	8709			Culvert severely blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 3,000
		40.40	43.10	2,700m	8711 8712 8713			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ 54,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					8714 8717 8718			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), spt resheet 100 mm gravel in gravel areas	
					8721				Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), spt resheet 100 mm gravel in gravel areas	
		42.48	42.48	0m	8715 8716			Culvert blocked ,severe washout to culvert headwall, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Repair headwalls and install new guide posts to MRWA standards	\$ 3,000
		41.14	41.14	0m	8719 8720			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,500
		38.50	39.95	1,450m	8722 8723			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 2,900
		38.24	38.26	20m	8724			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 720

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		35.54	38.13	2,590m	8725 8726 8727			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ 36,260
					8728			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	
4170024	Hogstrome Rd	4.05	4.09	40m	8730			To be assessed further when water clars	-	
		4.83	4.83	0m	8731			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,000
		4.65	6.08	1,430m	8732 8733 8734			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 4,290
		6.28	7.40	1,120m	8735 8736 8739			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade), sopt resheet 100 mm gravel in gravel areas	\$ 17,920

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		7.32	7.32	0m	8737 8738			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 3,000
4170007	Emu Hill East Rd	35.19	35.19	0m	8741 8742			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,000
		34.98	35.19	210m	8743			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thickcement stabilised gravel resheet to this section of road.	\$ 8,400
		32.50	33.50	1,000m	8744 8745			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 2,000
4170041	Mt Arrowsmith Rd	10.27	12.09	1,820m	8746 8747 8748			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 5,460

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		9.30	9.40	100m	8750 8751 8752			Gravel floodway low level damage Some minor scouring of embankment/shoulder damaged headwalls and stabilisation protection etc.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstatae any culverts and headwalls, table drains	\$ 5,000
		8.95	9.30	350m	9,753m			Scouring and silting of table drains both sides	Remove and dispose of silt lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 1,400
		7.60	8.30	700m	8754			Scouring and silting of table drains both sides	Remove and dispose of silt lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 1,400
		5.70	7.00	1,300m	8755 8756 8757			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 1,950
					8758			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	
		3.37	5.40	2,030m	8759 8760 8761			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 3,045

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		2.51	2.55	40m	8763 8764 8765			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 400
		1.50	2.20	700m	8766 8768			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 1,050
4170007	Emu Hill East Rd	31.40	33.50	2,100m	8770 8771 8772			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 5,250
		29.40	31.04	1,640m	8773 8774			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 4,100
		27.54	28.40	860m	8775 8776			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, top-up shoulders and table drains (HGC- Heavy Construction Grade).	\$ 6,020

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		27.43	27.48	50m	8777 8778 8779			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection or none installed	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	\$ 8,000
		27.27	27.43	160m	8780			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 320
		26.02	26.20	180m	8781			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 1,620
		24.54	25.85	1,310m	8782 8783 8784			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, top up shoulders and table drains (HGC- Heavy Construction Grade)	\$ 10,480
		23.90	24.40	500m	8785			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 1,500
4170042	Wilson Rd	0.00	0.80	800m	8787			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 1,600
		1.00	3.50	2,500m	8788 8789 8790			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 30,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					8791 8792 8793			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					8794 8795			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		4.02	4.02	0m	0,796m			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,500
		4.20	4.93	730m	8797 8798			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 5,840
		6.33	7.50	1,170m	8799 8800			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, top-up shoulders and table drains (HGC- Heavy Construction Grade)	\$ 9,360
		7.15	10.13	2,980m	8801 8802 8803			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 38,740

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					8804 8805 8806			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
4170007	Emu Hill East Rd	12.00	23.90	11,900m	8808 8809 8810			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 238,000
					8811 8812 8813			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					8814 8815 8816			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					8817 8818 8829			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					8830 8831 8832			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					8834 8835 8837			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					8838 8839 8841			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170071	Smith Rd	0.00	4.01	4,010m	8820 8821 8822			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 56,140
					8823 8824 8825			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					8826 8827			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
4170007	Emu Hill East Rd	9.80	11.50	1,700m	8842 8843			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 5,100
		8.00	9.50	1,500m	8844 8845 8846			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, top-up shoulders and table drains (HGC- Heavy Construction Grade)	\$ 15,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					8847 8848			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, top-up shoulders and table drains (HGC- Heavy Construction Grade)	
		6.70	7.00	300m	8849 8850			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, top-up shoulders and table drains (HGC- Heavy Construction Grade)	\$ 3,000
		5.45	6.08	630m	8851 8852 8853			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 8,820
		0.89	4.55	3,660m	8854 8855 8856			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 14,640
					8857			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	
4170008	South Kumminin East Rd	3.00	4.09	1,090m	8859			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 2,180

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		6.29	6.29	0m	8860 8861			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 3,000
		6.37	7.00	630m	8862			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 3,780
		7.46	7.49	30m	8863			Gravel floodway medium level damage Some scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of gravel surface generally due to overtop flooding.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement minimum 100mm thick.	\$ 1,080
		7.90	8.00	100m	8864			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 300
		8.60	9.25	650m	8865			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 1,300
		9.36	9.42	60m	8866 8867 rev			Gravel floodway medium level damage Some scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of gravel surface generally due to overtop flooding.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement minimum 100mm thick.	\$ 2,160
		9.42	11.22	1,800m	8868 8869 8870			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt, Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 14,400

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					8871 8872			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	
		11.40	12.50	1,100m	8873 8874 8875 rev			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 2,200
		14.90	16.00	1,100m	8876			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 2,200
		17.91	17.91	0m	8877 8878			Culvert Blocked, minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,000
4170065	Fiegeert Rd	0.03	2.27	2,240m	8879 8880 8881			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 26,880
					8882			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		2.43	3.51	1,080m	8883 8884			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 12,960
4170066	Lahaor Rd	0.00	2.80	2,800m	8886 8887 8888			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 33,600
					8889 8890			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
4170008	South Kuminin East Rd	28.19	28.27	80m	8892 8893			Gravel floodway medium level damage Some scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of gravel surface generally due to overtop flooding.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement minimum 100mm thick.	\$ 2,880
4170067	Coshes Rd	0.00	1.90	1,900m	8895 8897			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 4,750
		0.51	0.51	0m	8896			Culvert embankment eroded and washed away	Clean out culvert , remove debris and silt from table drains, backfill and compact embankment	\$ 2,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		2.00	2.90	900m	8898 8899			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 10,800
		3.96	5.03	1,070m	8900 8901			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 12,840
		5.68	6.51	830m	8902			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 9,960
4170008	South Kumminin East Rd	39.51	39.54	30m	8904			Scouring and silting of table drains both sides	Lightly grade and compact top-up shoulders and table drains (CG- Construction Grade)	\$ 240
		39.73	39.88	150m	8905			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 600
		40.71	41.10	390m	8906 8907 8908			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 1,560
		42.25	42.73	480m	8909 8910			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 1,920

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170005	Narembeen South Rd	14.77	15.60	830m	8912 8913 8914			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 11,620
					8915 8916			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		15.96	16.00	40m	8920 8921			Gravel floodway medium level damage Some scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of gravel surface generally due to overtop flooding.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement minimum 100mm thick.	\$ 1,600
		16.28	17.30	1,020m	8923 8924 8925			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 28,560
		17.59	17.63	40m	8926 8927			Gravel floodway medium level damage Some scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of gravel surface generally due to overtop flooding.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement minimum 100mm thick.	\$ 1,600

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		17.63	20.30	2,670m	8928 8929 rev 8930			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 18,690
					8931			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	
		20.50	21.00	500m	8932			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 1,500
		21.00	23.48	2,480m	8933 8934 8935			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 49,600
					8938 8939 8940 rev			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					8941			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		15.58	15.58	0m	8918 8919			Culvert blocked ,severe washout to culvert headwall, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Repair headwalls and install new guide posts to MRWA standards	\$ 2,000
		22.07	22.07	0m	8936 8937			Gravel floodway low level damage Some minor scouring of embankment/shoulder damaged headwalls and stabilisation protection etc.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains	\$ 3,500
		7.95	7.95	0m	8948			Gravel floodway low level damage Some minor scouring of embankment/shoulder damaged headwalls and stabilisation protection etc.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains	\$ 3,000
		8.14	8.14	0m	8949 8950			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 2,000
		2.40	3.50	1,100m	8943 8944 8945			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 3,300
		5.18	6.05	870m	8946 rev			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 2,610
		6.47	6.80	330m	8947 rev			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 990

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		8.20	10.70	2,500m	8951 8952 8953			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 7,500
					8954 8955			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	
		10.93	12.10	1,170m	8956 8957 5958			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 3,510
		12.80	14.46	1,660m	8959 8960			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 4,980
4170020	Brown Rd	0.28	0.75	470m	8962 8963 rev 8964			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 14,100

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					8965 8966			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
		1.25	2.57	1,320m	8967 8968 8969			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 9,240
		3.18	3.94	760m	8970 8971 8972			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 21,280
					8973			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
		4.10	5.60	1,500m	8974 8975 8976			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 12,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		6.00	9.02	3,020m	8978 8981 8982			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 39,260
					8983 8984 8985			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					8986 8987 8988			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		9.32	9.90	580m	8989 8990			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 7,540

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		10.45	12.35	1,900m	8991 8992 8993			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 24,700
					8994 8995			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		6.91	6.91	0m	8979 8980			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 3,000
4170021	Billericay East Rd	0.66	1.83	1,170m	8997			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 3,510
		1.83	1.89	60m	8998			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 2,160
		2.33	3.42	1,090m	8999 9001 9002			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 3,270

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		4.05	4.95	900m	9004 9006 9007			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 25,200
		5.11	5.16	50m	9008			Gravel floodway medium level damage Some scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of gravel surface generally due to overtop flooding.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement minimum 100mm thick.	\$ 1,800
		5.16	5.82	660m	9009			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 1,980
		5.84	11.60	5,760m	9010 9011 9012			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 86,400
					9013 9017 9018			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					9019 9022 9023 rev			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					9024 9025			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		11.99	12.06	70m	9026 9027			Gravel floodway medium level damage Some scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of gravel surface generally due to overtop flooding.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement minimum 100mm thick.	\$ 2,800
		12.06	14.50	2,440m	9028 9029 9033			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 29,280
					9034			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	

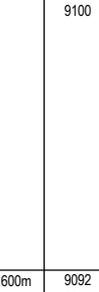
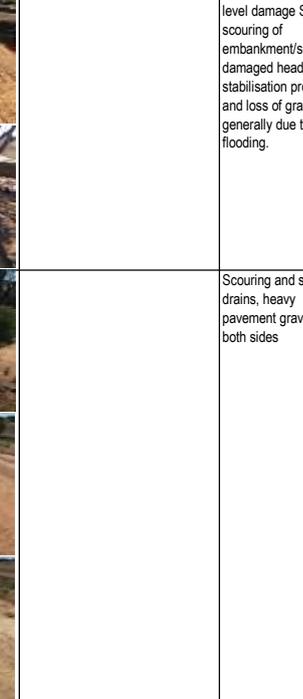
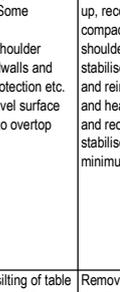
Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		15.20	20.30	5,100m	9035 9037 9038 rev			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 40,800
					9039 9040 rev 9041 rev			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		20.80	22.40	1,600m	9042 9043 9044			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 12,800
					9045			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		22.90	28.60	5,700m	9046 rev 9048 9049			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 68,400
					9050 9051 9052			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					9053 9057			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		4.08	4.08	0m	9003			Culvert blocked ,severe washout to culvert headwall, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Install new guide posts to MRWA standards, backfill and compact embankment	\$ 2,000
		4.14	4.14	0m	9005			Culvert blocked ,severe washout to culvert headwall, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Repair headwalls and install new guide posts to MRWA standards, backfill and compact embankment	\$ 2,000
		8.67	8.67	0m	9020 9021			Culvert blocked ,severe washout to culvert headwall, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Repair headwalls and install new guide posts to MRWA standards, backfill and compact embankment	\$ 3,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		13.02	13.08	60m	9030 9031 9032			Gravel floodway low level damage Some minor scouring of embankment/shoulder damaged headwalls and stabilisation protection etc.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains	\$ 8,000
		15.88	15.88	0m	9036			Culvert blocked ,severe washout to culvert headwall, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Repair headwalls and install new guide posts to MRWA standards, backfill and compact embankment	\$ 3,000
		23.20	23.20	0m	9047			Gravel floodway low level damage Some minor scouring of embankment/shoulder damaged headwalls and stabilisation protection etc.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains	\$ 3,000
		27.86	27.86	0m	9054 9055 9056			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains, backfill and compact embankment	\$ 3,000
4170022	Billericay West Rd	12.13	12.44	310m	9059 9060			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 930
		11.36	11.71	350m	9063 9064			Gravel floodway medium level damage Some scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of gravel surface generally due to overtop flooding.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement minimum 100mm thick.	\$ 14,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					9061 9062			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	
		10.36	11.40	1,040m	9065			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 3,120
4170026	Malones Rd	0.00	2.08	2,080m	9078 9079 9080			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 20,800
					9081 9067 9068			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		2.40	2.60	200m	9076			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 600
		3.00	4.13	1,130m	9074 9075			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 3,390

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		4.85	6.46	1,610m	9071 9072 9073			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 22,540
		7.60	8.30	700m	9069 9070			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 2,100
4170109	Narembeen Boundary Rd	0.00	3.80	3,800m	9154 9155 9156			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 11,400
		4.08	6.38	2,300m	9083 9084 9085			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 6,900
					9086			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170068	Cheethams Rd	0.20	3.80	3,600m	9096 9097 9098			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 10,800
					9101			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	
		1.14	1.20	60m	9099 9100			Gravel floodway medium level damage Some scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of gravel surface generally due to overtop flooding.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstale any culverts and headwalls, table drains and reconstruct cement stabilised pavement minimum 100mm thick.	\$ 2,400
		4.00	6.60	2,600m	9092 9093 9094			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 31,200
					9095			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		7.30	7.53	230m	9088 9089 9091			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 6,900
		7.44	7.44	0m	9090			Culvert Blocked ,minor silt/debris in table drains, embankment scoured and washed away	Clean out culvert , remove debris and silt from table drains, backfill and compact embankment	\$ 2,000
4170023	Hedges East Rd	0.30	5.82	5,520m	9103 9104 9105			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 66,240
					9106 9107 9108			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					9111 9114 9115			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					9116 9117 9119			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					9120 9121 9122			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					9125 9126 9127			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		3.71	3.71	0m	9109			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,000
		2.61	2.61	0m	9112 9113			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,000
		2.05	2.05	0m	9118			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		0.82	0.82	0m	9123			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,000
4170104	Hedges West Rd	0.00	0.79	790m	9151 9152			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 6,320
		1.55	1.74	190m	9149 9150			Gravel floodway low level damage Some minor scouring of embankment/shoulder damaged headwalls and stabilisation protection etc.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains	\$ 1,500
		3.00	3.67	670m	9148			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 2,010
		4.40	4.93	530m	9145 9146 9147			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 7,420
		5.26	6.90	1,640m	9143 9144			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 4,920
		7.45	7.70	250m	9142			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 750

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		9.18	11.45	2,270m	9130 9131 9132			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 63,560
					9133 9134 9135			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
					9136 9137 9138			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
					9139 9141			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
		11.45	11.96	510m	9129			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 4,080

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170135	Corrigin - Narembeen Rd	2.10	3.20	1,100m	9200 9201 9202			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 4,400
		9.85	11.47	1,620m	9197 9198 9199			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 6,480
		13.47	13.60	130m	9190 9191			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	\$ 12,000
					9194 9195			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	
		13.48	13.48	0m	9196			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		13.54	13.54	0m	9193			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	
		13.58	13.58	0m	9187 9188 9189			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	
		13.69	13.94	250m	9186			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 1,250
4170130	Kondinin - Narembeen Rd	8.70	9.60	900m	9208 9209			Scouring and silting of table drains one side only	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade) one side only	\$ 3,600
		9.88	9.92	40m	9184 rev			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 400
		10.10	10.80	700m	9210			Scouring and silting of table drains one side only	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade) one side only	\$ 2,100
		11.00	11.56	560m	9211			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 4,480

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		12.00	13.40	1,400m	9176 9177 9179			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 7,000
					9182			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	
		12.00	12.30	300m	9212			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 1,500
		12.85	13.78	930m	9213 9214			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 4,650
		14.54	15.30	760m	9215 9216			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 3,800
		14.60	15.60	1,000m	9174 9175			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 5,000
		15.30	15.66	360m	9218			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 1,800
		15.66	15.89	230m	9219			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 1,150

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		16.20	16.60	400m	9220 9221			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 2,000
		17.31	17.38	70m	9169 9170 9171			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	\$ 10,000
					9172 9173			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	
		21.10	21.22	120m	9168			Bitchumen pavement eroded	Reinstate Bitchumen seal	\$ 2,000
		21.22	21.35	130m	9167			Gravel floodway low level damage Some minor scouring of embankment/shoulder damaged headwalls and stabilisation protection etc.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains	\$ 6,500
		21.70	21.99	290m	9165 rev 9166 rev			Bitchumen pavement eroded	Reinstate Bitchumen seal	\$ 2,900

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		26.33	26.40	70m	9157 9158 9159			Culvert Blocked ,minor silt/debris in table drains, embankment scoured and washed away, rock protection scoured	Clean out culvert , remove debris and silt from table drains, backfill and compact embankment, repair rock protection	\$ 12,000
					9160 9161			Culvert Blocked ,minor silt/debris in table drains, embankment scoured and washed away, rock protection scoured	Clean out culvert , remove debris and silt from table drains, backfill and compact embankment, repair rock protection	
		8.47	8.47	0m	9205 9206 9207			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 3,000
		9.91	9.91	0m	9183			Culvert blocked ,severe washout to culvert embankment, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Repair headwalls and install new guide posts to MRWA standards, backfill and compact embankment	\$ 6,000
		12.28	12.28	0m	9181			Culvert blocked ,severe washout to culvert embankment, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Repair headwalls and install new guide posts to MRWA standards, backfill and compact embankment	\$ 3,000
		12.61	12.61	0m	9180			Culvert blocked ,severe washout to culvert embankment, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Repair headwalls and install new guide posts to MRWA standards, backfill and compact embankment	\$ 2,000
		12.82	12.82	0m	9178			Culvert blocked ,severe washout to culvert embankment, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Repair headwalls and install new guide posts to MRWA standards, backfill and compact embankment	\$ 2,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		22.13	22.13	0m	9164			Culvert blocked ,severe washout to culvert embankment, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Repair headwalls and install new guide posts to MRWA standards, backfill and compact embankment	\$ 2,000
		23.23	23.23	0m	9163			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,000
		24.48	24.48	0m	9162			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,000
4170083	Dayman Rd	0.00	1.10	1,100m	9223			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 2,750
		1.41	1.48	70m	9224 9226 9228			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	\$ 8,000
					9229			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	
		2.00	3.00	1,000m	9230 9231 9232			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 26,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					9233			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
		3.00	4.49	1,490m	9234 9236 9237	  		Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 22,350
					9238 9241	 		Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		3.39	3.39	0m	9235			Culvert blocked ,severe washout to culvert headwall, silt debris in table drains	Clean out culvert , remove debris and silt from table drains. Repair headwalls and install new guide posts to MRWA standards	\$ 3,000
		4.25	4.25	0m	9240			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 2,000
4170012	Bows Rd	3.80	4.69	890m	9315 9316	 		Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, top-up shoulders and table drains (HGC- Heavy Construction Grade)	\$ 8,010

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		5.27	7.96	2,690m	9299 9300 9301			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 53,800
					9302 9303 9304			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					9305 9306 9307			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
					9308 9309 9310			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					9313 9314			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		8.87	11.50	2,630m	9254 9255 9257			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 31,560
					9258 9259 9260			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		11.50	11.55	50m	9251 9252 9253			Gravel floodway medium level damage Some scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of gravel surface generally due to overtop flooding.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement minimum 100mm thick.	\$ 2,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		11.55	12.70	1,150m	9243 9248 9249			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 3,450
		12.07	12.15	80m	9244 9245 9246			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	\$ 3,000
					9247			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	
		5.92	5.92	0m	9311 9312			Gravel floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of gravel surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement minimum 100mm thick. Replace rock armour protection to MRWA standards	\$ 5,000
		11.60	11.60	0m	9249			Culvert Blocked ,minor silt/debris in table drains, embankment scoured and washed away	Clean out culvert , remove debris and silt from table drains, backfill and compact embankment	\$ 2,000
		11.05	11.05	0m	9256			Culvert Blocked ,minor silt/debris in table drains, embankment scoured and washed away	Clean out culvert , remove debris and silt from table drains, backfill and compact embankment	\$ 2,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		11.56	11.56	0m	9250			Culvert Blocked ,minor silt/debris in table drains, embankment scoured and washed away	Clean out culvert , remove debris and silt from table drains, backfill and compact embankment	\$ 2,000
4170101	Emu Hill Rd	0.00	3.87	3,870m		No photo was taken		Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 30,960
4170086	Fawcett Rd	0.30	1.70	1,400m	9262 9263 9264			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 18,200
		2.49	3.70	1,210m	9265 9267 9268			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 15,730
					9269 9270			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		3.95	6.00	2,050m	9272 9273 9274			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Resheet a 100mm thick gravel	\$ 53,300

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					9275 9276 9278			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Resheet a 100mm thick gravel	
					9279 9280 9281			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Resheet a 100mm thick gravel	
		6.50	8.00	1,500m	9282 9283			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 39,000
		8.50	8.80	300m	9284 9285			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 7,800
4170048	Garmony Rd	0.30	0.84	540m	9297			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 6,480
		1.09	1.30	210m	9296			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 2,520

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		1.51	1.80	290m	9294 9295			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 3,480
		2.30	2.37	70m	9292 9293			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 840
		2.66	3.19	530m	9291			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 7,420
		3.70	5.24	1,540m	9287 9288 9289			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 21,560
					9290			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
4170047	Cumminin Rd	0.19	0.33	140m	9346 9347			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 3,920

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		1.30	2.70	1,400m	9341 9342 9343			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 36,400
					9344 9345			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
		3.50	4.10	600m	9338 9339 9340			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 15,600
		4.10	4.20	100m	9332 9333 9334			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	\$ 10,000
					9336 9337			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. and loss of sealed surface generally due to overtop flooding. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains and reconstruct cement stabilised pavement and bituminous seal. Replace rock armour protection	

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		4.22	5.10	880m	9326 9327 9328			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 22,880
					9329 9330			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
		5.50	6.67	1,170m	9324 9325			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 14,040
		6.72	7.68	960m	9322 9323			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 11,520
		8.02	8.55	530m	9318 9319 9320			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 6,360

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
					9321			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		4.22	4.22	0m	9331			Culvert Blocked ,minor silt/debris in table drains, embankment eroded and washed away	Clean out culvert , remove debris and silt from table drains, backfill and compact embankment	\$ 2,000
4170113	Koolberrin Rd	0.00	0.90	900m	9359 9360 9361			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 23,400
		1.60	2.00	400m	9362			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 3,200
		2.40	4.00	1,600m	9363 9364 9365			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 41,600
					9366			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	
		4.90	6.00	1,100m	9357 9358			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 8,800

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		6.76	7.92	1,160m	9351 9352 9353			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 13,920
					9354 9355 9356			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	
		7.89	7.89	0m	9349 9350			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 3,000
4170069	Yandle Rd	0.00	0.62	620m	9374			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 1,860
		2.50	3.60	1,100m	9372 9373			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 8,800

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		4.68	5.40	720m	9368 9369 9370			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 18,720
		6.00	9.10	3,100m	9484			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 37,200
		9.60	10.10	500m	9485 9486			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 13,000
		10.10	11.00	900m	9487			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 2,250
		3.66	3.66	0m	9371			Culvert Blocked ,minor silt/debris in table drains	Clean out culvert , remove debris and silt from table drains.	\$ 1,500
4170028	Butler Rd	9.86	11.50	1,640m	9379 9380			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 13,120

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		11.96	15.30	3,340m	9375 9376 9377			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 10,020
					9378			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	
4170027	Potter Rd	0.00	3.00	3,000m	9382 9383 9384			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 9,000
		4.00	4.15	150m	9385			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 450
		5.70	6.80	1,100m	9386			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 9,900
4170079	Thorn Rd	0.80	1.32	520m	9389 9390			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 8,320

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
4170019	Wogal - Muntadgin Rd	0.60	3.20	2,600m	9392 9393 9394			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 10,400
					9395			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	
		3.60	4.30	700m	9396 9397			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 2,800
		4.75	5.60	850m	9398			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 3,400
		6.00	10.00	4,000m	9399 9400 9401			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	\$ 16,000
					9402			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG-Construction Grade)	
		12.01	12.05	40m	9403 9404			Gravel floodway low level damage Some minor scouring of embankment/shoulder damaged headwalls and stabilisation protection etc.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains	\$ 4,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		12.14	12.18	40m	9405			Gravel floodway low level damage Some minor scouring of embankment/shoulder damaged headwalls and stabilisation protection etc.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains	\$ 4,000
4170013	Cramphorne Rd	19.48	19.51	30m	9408 9409			Sealed floodway med level damage Some severe scouring of embankment/shoulder. Some loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains. Replace rock armour protection	\$ 8,000
		27.10	27.30	200m	9419			Scouring and silting of table drains ,minor loss of pavement gravel and fines one side only	Remove and dispose of silt. Grade and compact shoulders and table drains (HGC- Heavy Construction Grade) one side only	\$ 1,600
4170076	Georgeff Rd	0.00	2.50	2,500m	9415 9416 9417			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 10,000
		4.90	5.95	1,050m	9413 9414			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 9,450
		6.20	7.20	1,000m	9412			Scouring and silting of table drains both sides	Lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 3,000
4170078	Kerses Rd	0.00	1.69	1,690m	9422			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 5,070

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		2.60	4.00	1,400m	9420 9421			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly cut formation, grade and compact shoulders and table drains (CG- Construction Grade)	\$ 5,600
4170014	Starcevich Chapman Rd	0.10	1.00	900m	9424 9425			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt, Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 5,400
		1.00	3.60	2,600m	9426 9427 9428			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt, Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 20,800
					9429			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt, Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	
		4.00	4.20	200m	9430			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt, Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 1,600
		8.30	9.00	700m	9431			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt, Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 5,600
		9.80	12.35	2,550m	9432 9433 9434			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt, Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 15,300

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		14.20	17.00	2,800m	9435 9436			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 11,200
		19.80	21.20	1,400m	9437 9438			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 5,600
		21.20	21.40	200m	9439			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Apply a 100mm thick gravel resheet to this section of road.	\$ 5,600
		22.57	23.54	970m	9440 9441			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 11,640
		25.25	26.65	1,400m	9442 9443			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 19,600
4170077	Slade Rd	0.00	1.00	1,000m	9446 9447			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 12,000

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		1.34	3.40	2,060m	9448 9449			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 8,240
		3.40	4.20	800m	9450 9451			Scouring and silting of table drains, heavy loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade) Spot resheet a 100mm thick gravel in gravel areas	\$ 9,600
		5.90	6.70	800m	9452			Scouring and silting of table drains, minor loss of pavement gravel and fines both sides	Remove and dispose of silt. Grade and compact formation, shoulders and table drains (HGC- Heavy Construction Grade)	\$ 5,600
4170134	Mt Walker Rd	1.09	1.09	0m	9470 9471 9472			Culvert severe washout to culvert headwall and embankment	Clean out culvert , remove debris and silt. Repair headwalls, backfill and compact embankment with cement stabilised material and install new guide posts to MRWA standards	\$ 8,000
		2.88	2.98	100m	9473			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 5,000
		4.90	4.95	50m	9474			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 2,500

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		12.22	12.33	110m	9467 9468 9469			Sealed floodway high level damage Some severe scouring of embankment/shoulder damaged headwalls and stabilisation protection etc. Loss of rock armour protection	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains. Replace rock armour protection	\$ 8,000
		17.37	17.42	50m	9465			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 2,500
		17.64	17.72	80m	9475			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 4,000
		18.90	21.80	2,900m	9461 9462 9463			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 8,700
					9464			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	
		18.91	20.80	1,890m	9476 9477			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 5,670
		21.70	22.14	440m	9478 9479			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 1,320

Road No	Road Name / Location	From SLK km	To SLK km	Length m	Photo Reference	Picture of Damage	Picture of Reinstatement	Damage Description	Repair Description	Coste Estimate
		22.74	22.88	140m	9460			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 420
		24.50	24.79	290m	9480			Scouring and silting of table drains both sides	Remove and dispose of silt, lightly grade and compact shoulders and table drains (CG- Construction Grade)	\$ 870
		27.95	28.08	130m	9481 9482			Bitchumen pavement eroded	Reinstate Bitchumen seal	\$ 1,300
		28.00	28.10	100m	9458			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 5,000
		28.46	28.59	130m	9483			Bitchumen pavement eroded	Reinstate Bitchumen seal	\$ 1,300
		29.68	29.74	60m	9457			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 3,000
		31.30	31.43	130m	9456			Gravel floodway low level damage Some minor scouring of embankment/shoulder damaged headwalls and stabilisation protection etc.	Remove debris and clean-up, reconstruct and compact embankment and shoulders with cement stabilised material cleanout and reinstate any culverts and headwalls, table drains	\$ 6,500
		31.74	31.90	160m	9454 9455			Gravel shoulder has been damaged due to road overtopping with low level shallow erosion and loss of shoulder material	Fully reinstate shape and compact embankment shoulder with cement stabilised material and reform drains where applicable	\$ 9,600
										\$ 4,637,616

Plus Supervision

Certification

I hereby certify that the information provided above is correct and that a Certificate of Actual Expenditure together with all the other requested forms and supporting documentation will be provided in due course:

Signature _____ Date _____

Signature _____ Date _____

Name
Designation **Chief Executive Officer**

Name
Designation **Regional Manager**