



**mainroads**  
WESTERN AUSTRALIA

# Roe Highway Extension Compliance Report

5 December 2017 – 4 December 2018

(EPBC 2009/5031)

## Document Approval

Rev.	Date	Prepared By	Reviewed by	Recommended by	Approved by
A	12/02/2019	L Fisher	L Kirchner	J Shaw	
Signature:					
B	15/02/2019	L Fisher	L Kirchner	J Shaw and Terry Pearce	
0	26/02/2019	C House	L Kirchner	Terry Pearce	
					

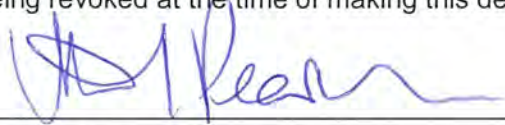
## Amendments

Revision Number	Revision Date	Description of Key Changes	Section / Page No.
0	26/02/2019	Final for Issue - Updated as per Main roads WA comments	

## Declaration of Accuracy

In making this declaration, I am aware that sections 490 and 491 of the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed



Full name (please print) Terry Pearce

Position (please print) Project Director

Organisation (please print including ABN/CAN if applicable)

Main Roads Western Australia 50 860 676 021

Date 27 / 2 / 2019

## Acronyms/Abbreviations

Acronym	Meaning
BR8	Building Roe 8
CAR	Compliance Assessment Report
DBCA	Department of Biodiversity Conservation and Attractions
the Department	Commonwealth Department of the Environment and Energy
DPaW	Department of Parks and Wildlife
EP Act	Western Australian <i>Environmental Protection Act 1986</i>
EPA	Environmental Protection Authority
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
MAC	Murdoch Activity Centre
Main Roads	Main Roads Western Australia
MDC	Murdoch Drive Connection
the Minister	The Minister of the Environment
MoU	Memorandum of Understanding
MRIA	Metropolitan Road Improvement Alliance
MS 1008	Ministerial Statement 1008
PDE	Proposal Development Envelope
PER	Public Environmental Review
WA	Western Australia

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# 1 INTRODUCTION

Main Roads Western Australia (Main Roads) proposed to construct the Roe Highway Extension as part of the Perth Freight Link project. This involved the construction of approximately 5 km of highway extending Roe Highway from its current terminus, at the Kwinana Freeway in Jandakot, to Stock Road in Coolbellup. The design and construction of the Roe Highway Extension was awarded to the Building Roe 8 Alliance (BR8), formed between Main Roads, CPB Contractors, Georgiou Group, WA Limestone, GHD, AECOM and BG&E.

On 12 March 2017, the action was paused following the Western Australian State election, halting any further clearing or works other than those required to maintain a secured and safe site.

The State Government announced on 8 May 2017 that the eastern end of the action, known as the Murdoch Drive Connection (MDC), would be implemented immediately by the Metropolitan Road Improvement Alliance (MRIA). This portion of the action surrounds the Kwinana Freeway and Roe Highway interchange, continuing towards Bibra Drive, providing a new access into the Murdoch Activity Centre (MAC).

Construction and operation of the MDC is fully contained within the approved proposal development envelope (PDE). The proposed extent of the clearing within the PDE has since been updated via a Section 45c, reducing the amount of native vegetation required to be cleared. The Section 45c was requested by Main Roads in line with the State Government's election commitment. This resulted in an amendment to only connect Roe Highway to Murdoch Drive and not Stock Road. The changes to the proposal have reduced the area of the construction zone to 88.8 ha. The western end of the PDE, a total of 85.8 ha, is now a rehabilitation zone and has been removed from the construction footprint. A Rehabilitation Management Plan is now in place for this zone, with previously cleared areas to be rehabilitated.

The action is located approximately 14 km south of Perth within the Swan Coastal Plain Bioregion. The action is largely contained within the City of Cockburn, however, parts of the design extend northward to the City of Melville along Murdoch Drive and the Kwinana Freeway.

## 1.1 Approval under the *Environment Protection and Biodiversity Conservation Act 1999*

Roe Highway Extension was assessed by the Commonwealth Department of the Environment and Energy (the Department) under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) after it was referred by Main Roads on 22 June 2009, as the action impacts listed threatened species and communities, and listed migratory species. Approval under the EPBC Act was issued on 21 October 2015 with conditions (EPBC 2009/5031).

MDC will proceed in accordance with the conditions in EPBC 2009/5031.

## 1.2 Purpose of this Report

This report has been produced to meet the requirements of Condition 12 of the approval under the EPBC Act. It namely addresses compliance with approval conditions and implementation of any management plans and strategies as specified within the approval.

This is the second annual report prepared by MRIA on behalf of Main Roads to fulfil this condition and covers 5 December 2017 to 4 December 2018.

## 2 PROGRESS TO DATE

The action commenced on 5 December 2016, with native vegetation clearing commencing on the 19th of that same month.

The 2017 Compliance Report noted that 40.5 ha of native vegetation had been cleared for construction.

In the current reporting period an additional 3.10 ha of black cockatoo habitat has been cleared within the PDE.

All site remediation activities west of Bibra Drive have been completed and handed back to the community, including the following:

- Design and construction of fencing
- Removal of mulch piles
- Removal of previously illegally dumped asbestos
- General civil works to assist with rehabilitation works
- Weed control.

### 3 COMPLIANCE

Table 1 EPBC Approval Condition and Compliance Table

Condition Number / Reference	Condition	Is the action compliant with this condition?	Evidence / Comments
1	In order to minimise impacts to threatened species and communities and migratory species, the approval holder must adhere to the clearance limits outlined in the WA approval condition 1-1.	Compliant	No clearing has occurred outside the clearance limits outlined in in the WA approval condition 1-1. Refer to Figure 1.
2	In order to minimise impacts to threatened species and communities and migratory species, the approval holder must undertake the action in accordance with WA approval conditions 7-1 to 7-6.	Compliant	All actions have been undertaken in accordance with WA approval conditions 7-1 to 7-6 to minimise impacts to threatened species, communities and migratory species. The latest Compliance Assessment Report (CAR) which assessed the project against the MS 1008 approval conditions was submitted for the 2 July 2017 – 1 July 2018 period, attached in Appendix A.
3	In order to minimise impact to black cockatoos and migratory species outside the clearance limits specified in Condition 1, the approval holder must undertake the action in accordance with WA approval condition 10-1.	Compliant	All actions have been undertaken in accordance with WA approval condition 10-1 to minimise impacts to black cockatoos and migratory species outside the 'zone of indirect impacts'. This has been done through the implementation of WA approval conditions 10-2 to 10-9. The latest CAR was submitted for the 2 July 2017 – 1 July 2018 period (Appendix A).



Condition Number / Reference	Condition	Is the action compliant with this condition?	Evidence / Comments
4	<p>To avoid and mitigate impacts to black cockatoos, during the breeding season (August - December), within 7 days prior to clearing, the approval holder must ensure all potential nesting trees are investigated to detect the presence of black cockatoos using hollows. The investigation must be undertaken by a suitably qualified and experienced person.</p> <p>If any black cockatoos are detected using a hollow in a tree or trees, the approval holder must:</p> <ol style="list-style-type: none"> <li>1. Clearly identify all such trees with fencing and signage that must be located within two (2) metres of the base of each such tree;</li> <li>2. Not clear any such tree or any vegetation within 10 metres of any such tree; and</li> <li>3. Undertake all reasonable measures to avoid any such tree from being cut down, felled, removed, killed, destroyed, poisoned, ring-barked, uprooted or burned until a suitably qualified and experienced person has verified in writing that the hollow(s) in each such tree are no longer being used by black cockatoos.</li> </ol>	Compliant	<p>The potential black cockatoo breeding trees identified within the action area were inspected by a suitably qualified person prior to clearing.</p> <p>No black cockatoo nesting trees were cleared in this audit period.</p>
5	<p>In order to minimise impacts to threatened species and communities, and migratory species, the approval holder must develop and implement all Plans or Surveys, in accordance with the requirements of the following WA approval conditions:</p> <ol style="list-style-type: none"> <li>a) The Infrastructure Plan required by WA approval conditions 6-2 to 6-7;</li> <li>b) The Construction Environmental Management Plan required by WA approval conditions 7-7 to 7-11;</li> <li>c) The Drainage Management and Monitoring Plan required by WA approval conditions 8-1 to 8-7;</li> <li>d) The Baseline Wetland Condition Survey required by WA approval conditions 9-1 to 9-3;</li> <li>e) The Wetlands Monitoring and Management Plan required by WA approval conditions 9-4 to 9-11;</li> <li>f) The Baseline Flora and Vegetation Condition Survey required by WA approval conditions 10-1 to 10-3;</li> <li>g) The Flora and Vegetation Monitoring and Management Plan required by WA approval conditions 10-4 to 10-11; and</li> <li>h) The Fauna Management Plan required by WA approval conditions 11-1 to 11-8.</li> </ol>	<p>Compliant for development of all plans</p> <p>Partially compliant for plan implementation</p>	<p>The following Plans and Surveys, have been prepared and implemented prior to the commencement of construction in accordance with the WA approval conditions:</p> <ul style="list-style-type: none"> <li>• Infrastructure Plan</li> <li>• Drainage Management and Monitoring Plan</li> <li>• Baseline Wetland Condition Survey</li> <li>• Wetlands Monitoring and Management Plan</li> <li>• Baseline Flora and Vegetation Condition Survey</li> <li>• Flora and Vegetation Monitoring and Management Plan</li> <li>• Fauna Management Plan.</li> </ul> <p>There was one non-compliance recorded against these management plans - WMMP – 9.9 late reporting of trigger exceedances</p> <p>For further information and evidence regarding compliance against each of the Plans and Surveys refer to the annual CAR prepared to review compliance against the WA</p>

Condition Number / Reference	Condition	Is the action compliant with this condition?	Evidence / Comments
			approval conditions. The latest CAR was submitted for the 2 July 2017 – 1 July 2018 period, provided in Appendix A with the next one due in August 2019.
6	The approval holder must provide a copy of all CEO approved (or varied) Plans or Surveys specified in Condition 5 to the Department within 20 business days of the Plan or Survey having been approved (or varied) by the CEO.	Compliant	There have been no changes to the Plans and Surveys specified in condition 5 since the last audit period.
7	To offset the loss of black cockatoo habitat, prior to commencement, the approval holder must provide the Department with written evidence that funds have been provided to the DPAW for the acquisition of an environmental offset property. The written evidence must include a description and map clearly defining the location and boundaries of the offset property and be accompanied with the offset attributes and a shapefile.	Closed in 2017 compliance report	Written evidence of funds being transferred to DPAW (now the Department of Biodiversity Conservation and Attractions [DBCA]) for the acquisition of an environmental offset property was sent to the Department on 30 November 2016, prior to the commencement of works (evidence in 2017 Compliance Report).
8	Within 12 months of the commencement of the action, the approval holder must provide the Department with written evidence, including certificates of title, that the offset property has been transferred to the State of Western Australia for the purpose of addition to the conservation estate.	Closed in 2017 compliance report	Written evidence, including certificates of title, for the offset property being transferred to the State of Western Australia was sent to the Department on 30 November 2016 (evidence in 2017 Compliance Report).
9	Within 5 years of the commencement of the action, the approval holder must provide funds to DPAW to assist in the management of the offset property following the transfer of the land as described in condition 8. The funding must be adequate for DPAW to maintain the quality of black cockatoo habitat within the offset property for at least 20 years. The approval holder must consult with DPAW, in determining the amount of necessary funding to achieve the aims of this condition. Once the funding has been provided to DPAW, the approval holder must provide written evidence of this to the Department.	Closed in 2017 compliance report	The action is two years into construction. Main Roads has provided the Department with the final Memorandum of Understanding (MoU) between Main Roads and DPaw (now DBCA) and evidence of the transfer of funds within the five year timeframe (evidence in 2017 Compliance Report).
10	Any survey data collected for the action must be collected and recorded so as to conform to a reasonable standard such that it can be readily used by a third party or to data standards notified from time to time by the Department. When requested by the Department, the proponent must provide to the Department all species and ecological survey data and related survey information from ecological surveys undertaken for matters of national environmental significance. This survey data must be provided within 30 business days of request, or in a timeframe agreed to by the Department in writing. The Department may use the survey data for other purposes.	Compliant	All surveys and survey data were collected and recorded by suitably qualified persons to a reasonable standard. The Department has not requested survey data or information to date.
11	Within 10 business days after the commencement of the action, the approval holder must advise the Department in writing of the actual date of commencement.	Closed in 2017 compliance report	The Department was notified on 7 December 2016 of works commencing on 5 December 2016 (evidence in 2017 Compliance Report).

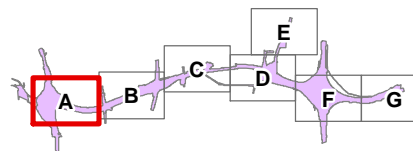
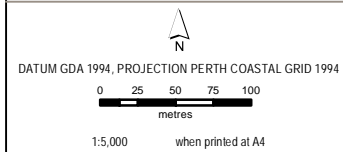
Condition Number / Reference	Condition	Is the action compliant with this condition?	Evidence / Comments
12	Within three months of every 12 month anniversary of the commencement of the action, the approval holder must publish a report on their website addressing compliance with each of the conditions of this approval, including implementation of any Plans or Surveys as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published. The approval holder must continue to publish the report until such time as agreed in writing by the Minister.	Compliant	This report fulfils the requirement under Condition 12 for an annual report.
13	Upon the direction of the Minister, the approval holder must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister. The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister.	Compliant	The Minister has not given direction for an independent audit to be undertaken to date.
14	If, at any time after 5 years from the date of this approval, the approval holder has not substantially commenced the action, then the approval holder must not substantially commence the action without the written agreement of the Minister.	Closed in 2017 compliance report	The action has commenced.
15	The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the Plans or Surveys required by this approval, and make them available upon request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.	Compliant	The MRIA team and Main Roads operate under a management system accredited to ISO14001 and as such maintain accurate records of all activities relevant to the conditions of approval. Thus far, the Department has not requested any records or conducted any audits of the action.
16	Unless otherwise agreed to in writing by the Minister, the approval holder must publish all Plans or Surveys referred to in these conditions of approval on their website. Each management plan must be published on the website within 1 month of being approved.	Compliant	All required management plans are published on the Main Roads website: <a href="https://project.mainroads.wa.gov.au/home/southmetropolitan/murdochdrive/Pages/default.aspx">https://project.mainroads.wa.gov.au/home/southmetropolitan/murdochdrive/Pages/default.aspx</a>



PROJECT ID 60478410  
 CREATED BY DGF  
 APPROVED BY JShaw  
 LAST MODIFIED 26 FEB 2019



**LEGEND**  
 Rehab Zone  
 Pre-2018 Clearing Area



Data sources: Nearmaps 2017  
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

**Clearing to Date**

Main Roads Western Australia

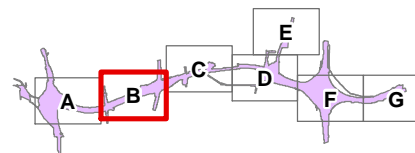
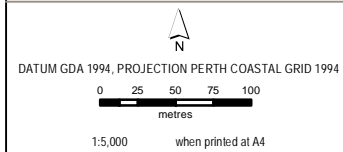
Figure  
 1A



PROJECT ID 60478410  
 CREATED BY DGF  
 APPROVED BY JShaw  
 LAST MODIFIED 26 FEB 2019



**LEGEND**  
 Rehab Zone  
 Pre-2018 Clearing Area



Data sources: Nearmaps 2017  
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

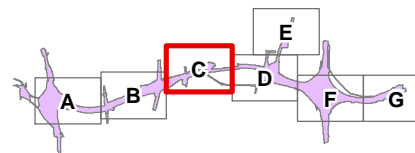
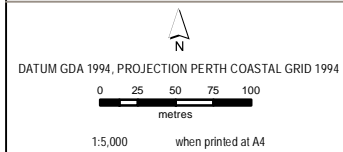
<b>Clearing to Date</b>	
<b>Main Roads Western Australia</b>	<b>Figure 1B</b>



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**LEGEND**  
 Rehab Zone  
 Pre-2018 Clearing Area



Data sources: Nearmaps 2017  
 Base Data: (c) Based on Information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

**Clearing to Date**

Main Roads Western Australia

Figure  
 1C

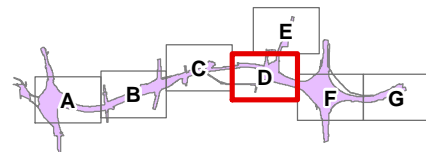


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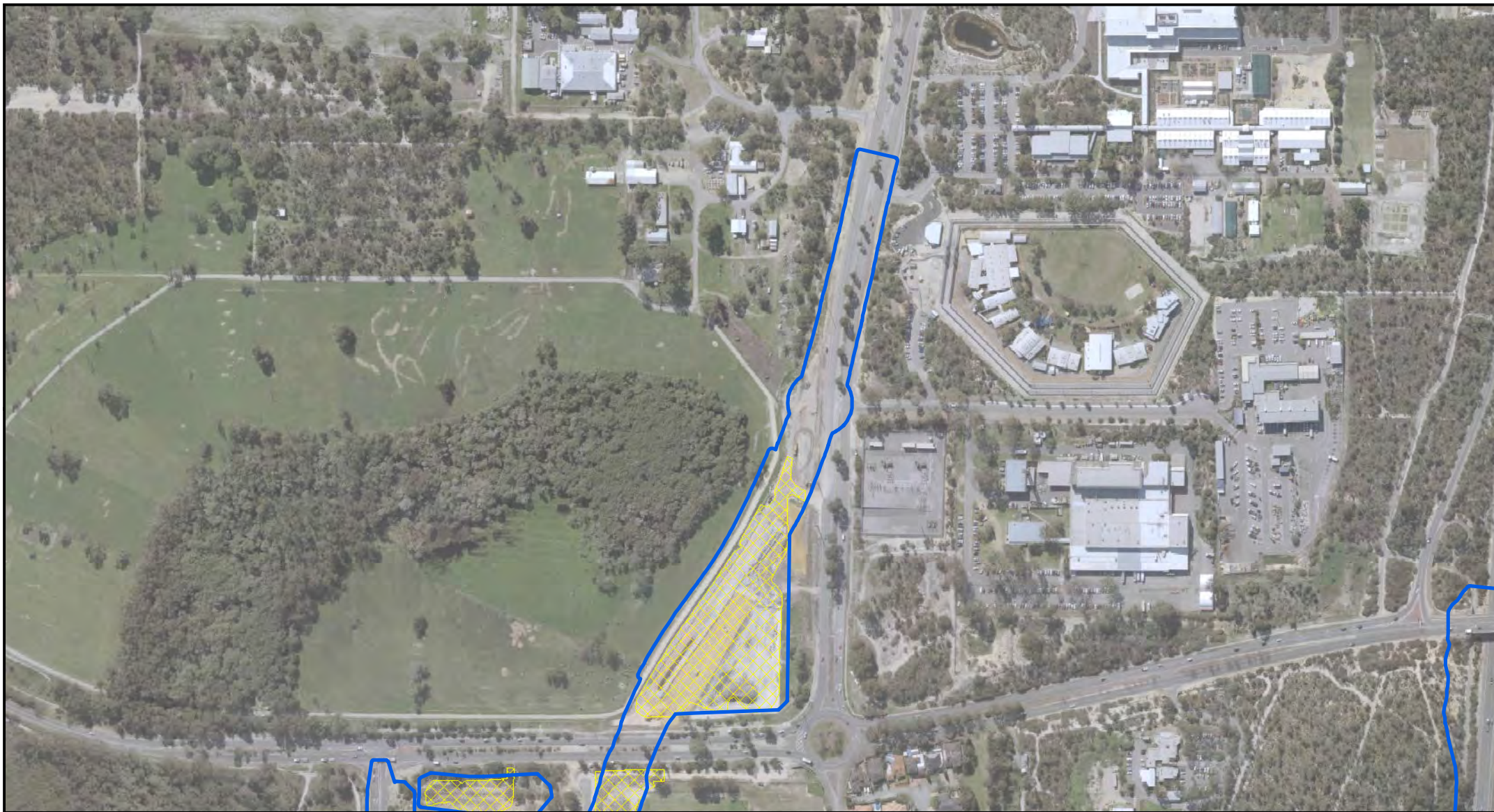
**LEGEND**  
 Construction Zone  
 Rehab Zone  
 New 2018 Clearing Area  
 Pre-2018 Clearing Area

DATUM GDA 1994, PROJECTION PERTH COASTAL GRID 1994  
  
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Data sources: Nearmaps 2017  
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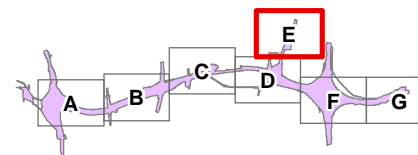
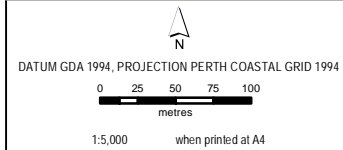
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<b>Main Roads Western Australia</b>	
Figure	1D



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**LEGEND**  
 Construction Zone  
 New 2018 Clearing Area



Data sources: Nearmaps 2017  
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

<b>Clearing to Date</b>	
<b>Main Roads Western Australia</b>	
Figure	1E

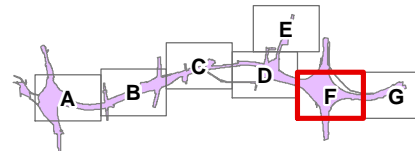
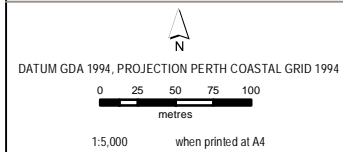




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**LEGEND**  
 Construction Zone  
 New 2018 Clearing Area  
 Pre-2018 Clearing Area



Data sources: Nearmaps 2017  
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

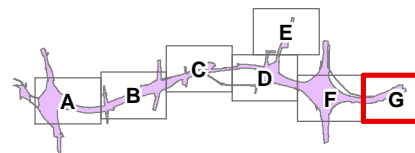
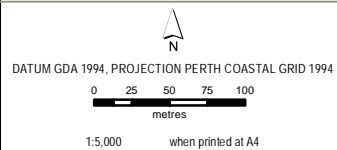
<b>Clearing to Date</b>	
<b>Main Roads Western Australia</b>	
Figure	1F



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**LEGEND**  
 Construction Zone  
 New 2018 Clearing Area  
 Pre-2018 Clearing Area



Data sources: Nearmaps 2017  
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

<b>Clearing to Date</b>	
Main Roads Western Australia	
Figure	1G

## 4 NEW ENVIRONMENTAL RISKS

No new environmental risks were identified during the reporting period.

## 5 CONCLUSION

The first year of works resulted in the suspension of the Roe Highway Extension Project, completion of site remediation to the west of Bibra Drive and the commencement of the MDC construction works. The works in this reporting period include the continued construction of the MDC, with some investigation and design works remaining to realign and extend Murdoch Drive as a four lane dual carriageway to Kwinana Freeway at the Roe Highway interchange.

The action was partially compliant with Condition 5 and fully compliant with all remaining applicable conditions under the EPBC Act approval.

The partial compliance of Condition 5 is a result of a minor non-compliance identified in relation to MS 1008 Conditions 9-9 and 10-9.

Non-compliance identified in the 2017-2018 audit period includes:

- Part 3 of Condition 9-9 of MS 1008 relating to reporting of exceedances of Wetland monitoring trigger criteria to the CEO within 7 days
- 

The partial compliance of Condition 5 in relation to the overall action has been resolved and all exceedances are now reported within 7 days of the event or of receiving lab results. Lessons learnt for these minor non-compliances have been used to improve the processes during the continued construction of the action.

Overall, no non-compliances were identified which resulted in actual environmental impacts over and above those approved by both the Department and the WA State regulators.

## 6 APPENDICES

Appendix	Title
<b>Appendix A</b>	2018 Compliance Assessment Report

## **Appendix A: Compliance Assessment Report (2 July 2017 – 1 July 2018)**



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# Roe Highway Extension Compliance Assessment Report

2 July 2017 – 1 July 2018

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# Amendments

Revision Number	Revision Date	Description of Key Changes	Section / Page No.
A	26/09/2018	For Review	
0	28/09/2018	For Client Review	
1	2/10/2018	For Submission	

# 1 INTRODUCTION

This Compliance Assessment Report (CAR) addresses the status and compliance of the Roe Highway Extension – Stage 8 Project with the conditions in Ministerial Statement 1008 (MS 1008). This report has been prepared for the purpose of meeting the requirements of conditions 4–3 and 4–6 of the Statement, which are to submit annual compliance assessment reports to the Chief Executive Officer (CEO) of the [then] Office of the Environmental Protection Authority (OEPA).

This CAR addresses the 12 month reporting period from 2 July 2017 to 1 July 2018.

Main Roads Western Australia (Main Roads) is generally compliant with all conditions of MS 1008 for the period addressed in the CAR. Non-compliance identified in the 2017-2018 audit period includes:

- Part 3 of Condition 9-9 of MS 1008 relating to reporting of exceedances of Wetland monitoring trigger criteria to the CEO
- Part 3 of Condition 10-9 of MS 1008 relating to reporting of exceedances of Flora and Vegetation monitoring trigger criteria to the CEO.

## 1.1 Project Background

Main Roads proposed to construct the Roe Highway Extension – Stage 8 (the Stage 8 Project; Figure 1) as part of the Perth Freight Link project. The Stage 8 Project involved the construction of approximately 5 km of highway, extending Roe Highway from its current terminus at the Kwinana Freeway in Jandakot to Stock Road in Coolbellup. The proposed extension to Roe Highway is largely located within a primary regional road reserve which adjoins Beeliar Regional Park.

On 3 April 2017 the Stage 8 Project was officially suspended. The State Government announced on 8 May 2017 that the eastern end of the proposal, known as the Murdoch Drive Connection (MDC) would be implemented immediately, with construction to commence late-2017. This is the area surrounding the Kwinana Freeway and Roe Highway interchange, and continuing towards Bibra Drive, to provide a new access into the Murdoch Activity Centre (MAC).

MDC is located approximately 14 km south of Perth within the Swan Coastal Plain Bioregion. The Project is largely contained within the City of Cockburn, however, parts of the design extend northward to the City of Melville along Murdoch Drive and Kwinana Freeway.

MDC is referred to in this report as the Project and will proceed in accordance with the conditions in MS 1008. The original alliance created to design and construct the Roe 8 Project (the Building Roe 8 Alliance) has been renegotiated and replaced by the Metropolitan Road Improvement Alliance (MRIA), formed between Main Roads, CPB Contractors, Georgiou Group, WA Limestone, GHD, AECOM and BG&E. MRIA is responsible for delivery of the project.

## 1.2 Project Approvals

The Project was formally assessed under Part IV of the *Environmental Protection Act 1986* (the EP Act) and approved under MS 1008 on 2 July 2015.

A Section 45c for the Project was submitted in May 2018. The s45c proposed minor changes and amendments to the development envelope to allow for tie-ins to the existing road network and accommodation works with neighbouring properties.

## 1.3 Proponent Details

The Proponent for the Project is Main Roads Western Australia.



## 2 CURRENT STATUS

### 2.1 Works to Date

The Project was officially awarded to Building Roe 8 Alliance (now MRIA) on 11 October 2016, with detailed design and planning works commencing soon after.

It was announced on 8 May 2017 that MRIA would complete the design and construction of MDC.

#### Site Remediation Activities to the west of Bibra Drive

As of 5 March 2018 site remediation activities west of Bibra Drive in North Lake were undertaken prior to hand over the site. This was to ensure the safe and secure site for rehabilitation of the cleared areas as a part of a community led program. This included the following scope of works:

- Design and construction of fencing
- Removal of mulch piles
- Asbestos removal
- General civil works to assist with rehabilitation works
- Weed control.

#### Section 45C Amendment

Detailed design of the MDC project resulted in some elements of the project falling outside the approved Project Development Envelope (PDE). In order to remain compliant with MS1008, a Section 45c application was submitted under the EP Act, seeking to amend the Development Envelope. This application was approved by the EPA on 25 May 2018.

#### Roe 8 Rehabilitation

Rehabilitation of areas cleared under Ministerial Statement 1008 to the west of Bibra Drive will be undertaken by the community in a community led and community driven program. The *Rehabilitating Roe 8 Rehabilitation Management Plan* has been developed by the Rehabilitation Roe 8 Working Group and endorsed by the Rehabilitating Roe 8 Steering Committee. Rehabilitation works are currently underway.

#### MDC

2.96 ha of native vegetation has been cleared during this audit period (Figure 1).

Table 1 identifies the clearing areas to date and within this audit period (2 July 2017 – 1 July 2018).

Table 1 Clearing Areas

Environmental Aspect	Area prior to current audit period (ha*)	Area in this audit period (ha*)	Area total (ha*)
Native vegetation	33.97	2.96	36.93
Conservation category wetland	1.90	0.05 (non-native)	1.95
Resource enhancement wetland	0	0	0
Multiple Use wetland	0	0	0
EPP Lakes	0.17	0	0.17

Environmental Aspect	Area prior to current audit period (ha*)	Area in this audit period (ha*)	Area total (ha*)
Black cockatoo habitat	31.66	2.25	33.91
Potential black cockatoo nesting trees with hollows**	10 (count)	0	10 (count)
Potential black cockatoo nesting trees without hollows*	89 (count)	3	92 (count)
* All measurements in ha unless otherwise stated ** Suitable tree species with a trunk diameter at breast height of 0.5 m or more			

## 2.2 Planned Activities

The objective of MDC is to provide access to MAC from the south and the east to ensure the full potential of MAC can be realised.

Construction will continue as required to realign and extend Murdoch Drive as a four lane dual carriageway to Kwinana Freeway at the Roe Highway interchange. Construction is expected to be completed in late 2019.



PROJECT ID 60478410  
 CREATED BY DGF  
 APPROVED BY JShaw  
 LAST MODIFIED 02 OCT 2018

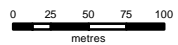


**LEGEND**

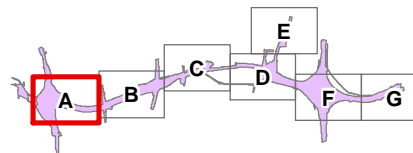
- Native Vegetation within Clearing Area
- Project Development Envelope
- Cleared under Roe 8



DATUM GDA 1994, PROJECTION PERTH COASTAL GRID 1994



1:5,000 when printed at A4



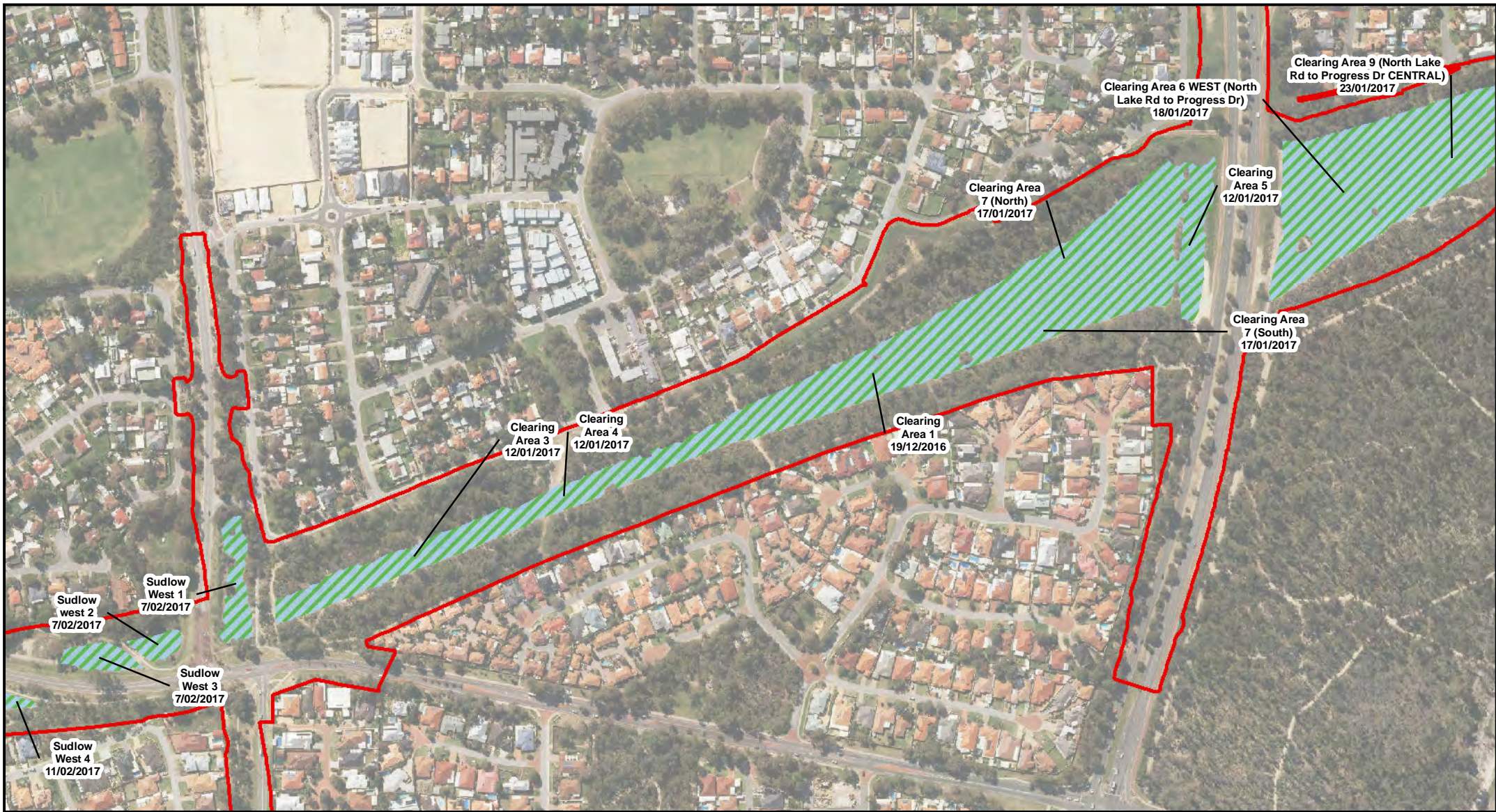
Data sources: Nearmaps 2017

Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

**Clearing to Date**

Main Roads Western Australia

Figure  
1A



PROJECT ID 60478410  
 CREATED BY DGF  
 APPROVED BY JShaw  
 LAST MODIFIED 02 OCT 2018

**MR IA** Metropolitan Road Improvement Alliance

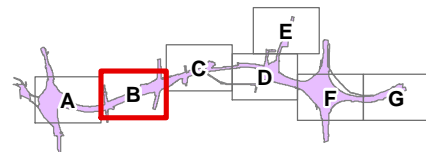
DATUM GDA 1994, PROJECTION PERTH COASTAL GRID 1994

0 25 50 75 100 metres

1:5,000 when printed at A4

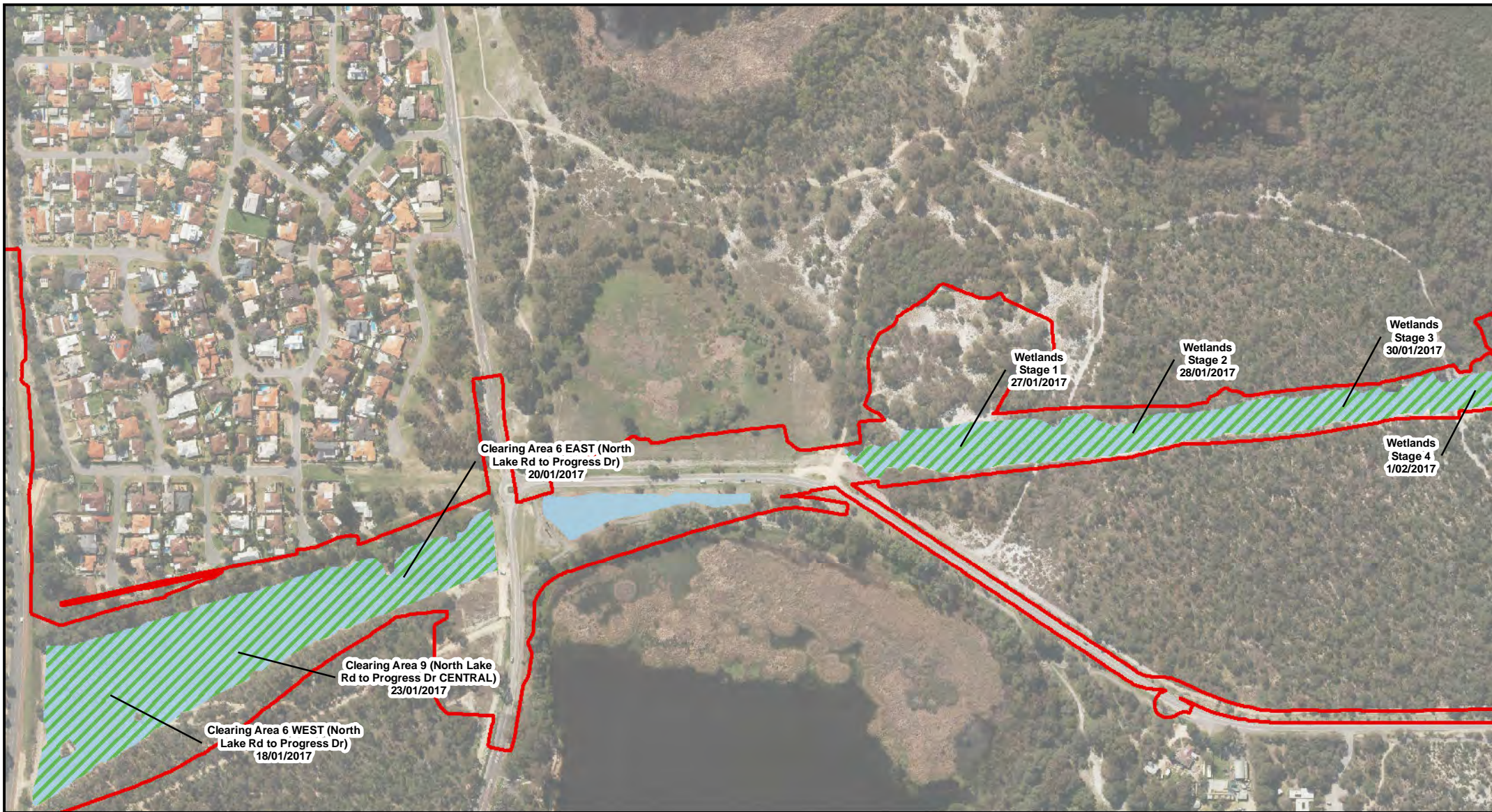
**LEGEND**

- Native Vegetation within Clearing Area
- Project Development Envelope
- Cleared under Roe 8



Data sources: Nearmaps 2017  
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

<b>Clearing to Date</b>	
Main Roads Western Australia	
Figure	1B

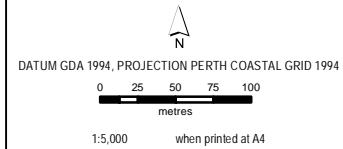


PROJECT ID 60478410  
 CREATED BY DGF  
 APPROVED BY JShaw  
 LAST MODIFIED 02 OCT 2018

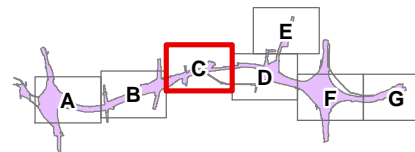


**LEGEND**

- Native Vegetation within Clearing Area
- Project Development Envelope
- Cleared under Roe 8



DATUM GDA 1994, PROJECTION PERTH COASTAL GRID 1994

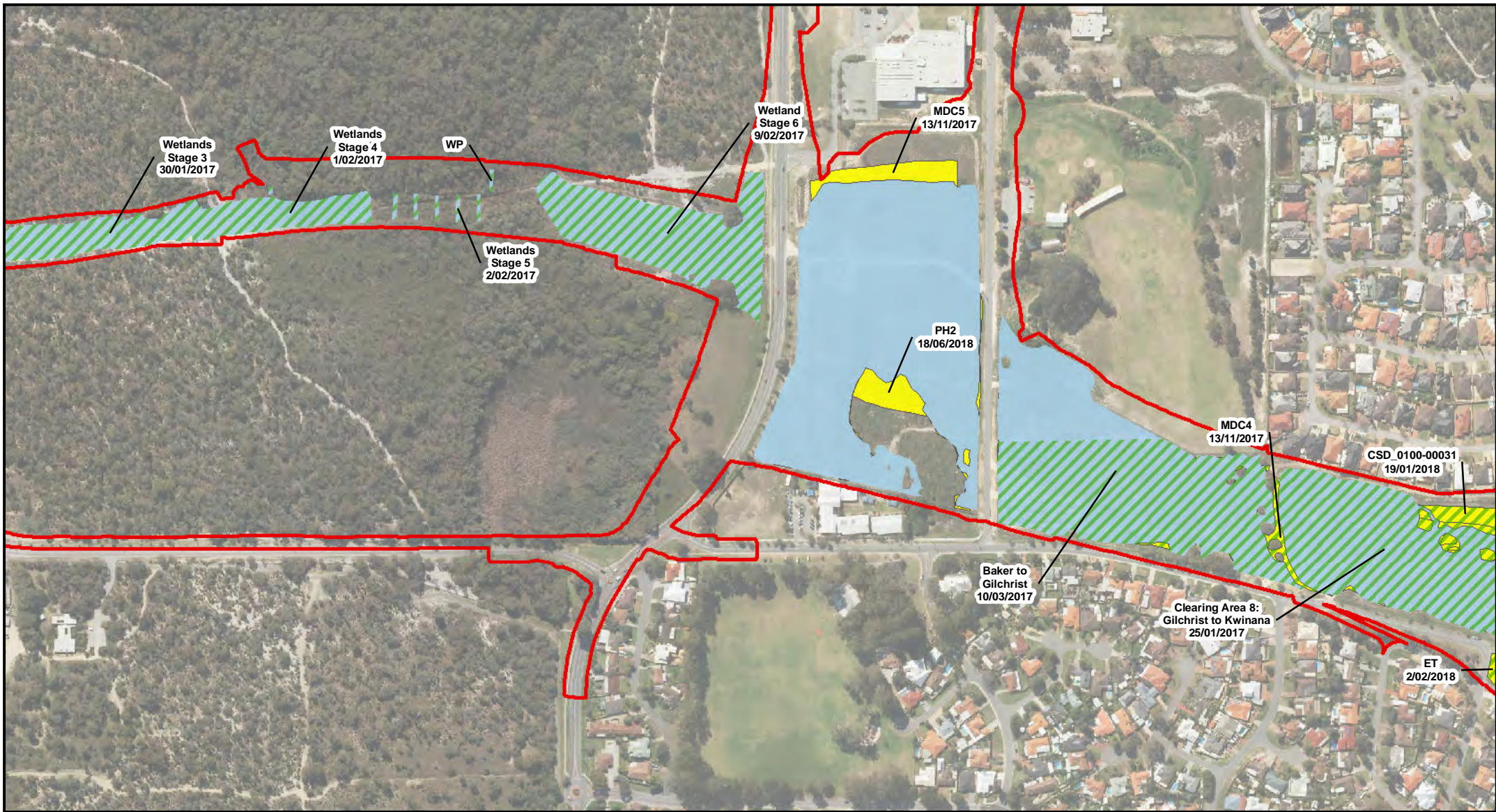


Data sources: Nearmaps 2017  
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

**Clearing to Date**

Main Roads Western Australia

Figure  
 1C



PROJECT ID 60478410  
 CREATED BY DGF  
 APPROVED BY JShaw  
 LAST MODIFIED 02 OCT 2018



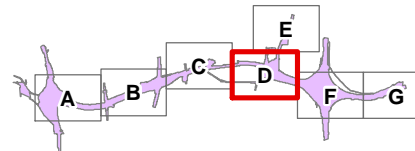
DATUM GDA 1994, PROJECTION PERTH COASTAL GRID 1994

0 25 50 75 100 metres

1:5,000 when printed at A4

**LEGEND**

- Native Vegetation within Clearing Area
- Project Development Envelope
- Cleared under Roe 8
- Cleared under Murdoch Drive Connection

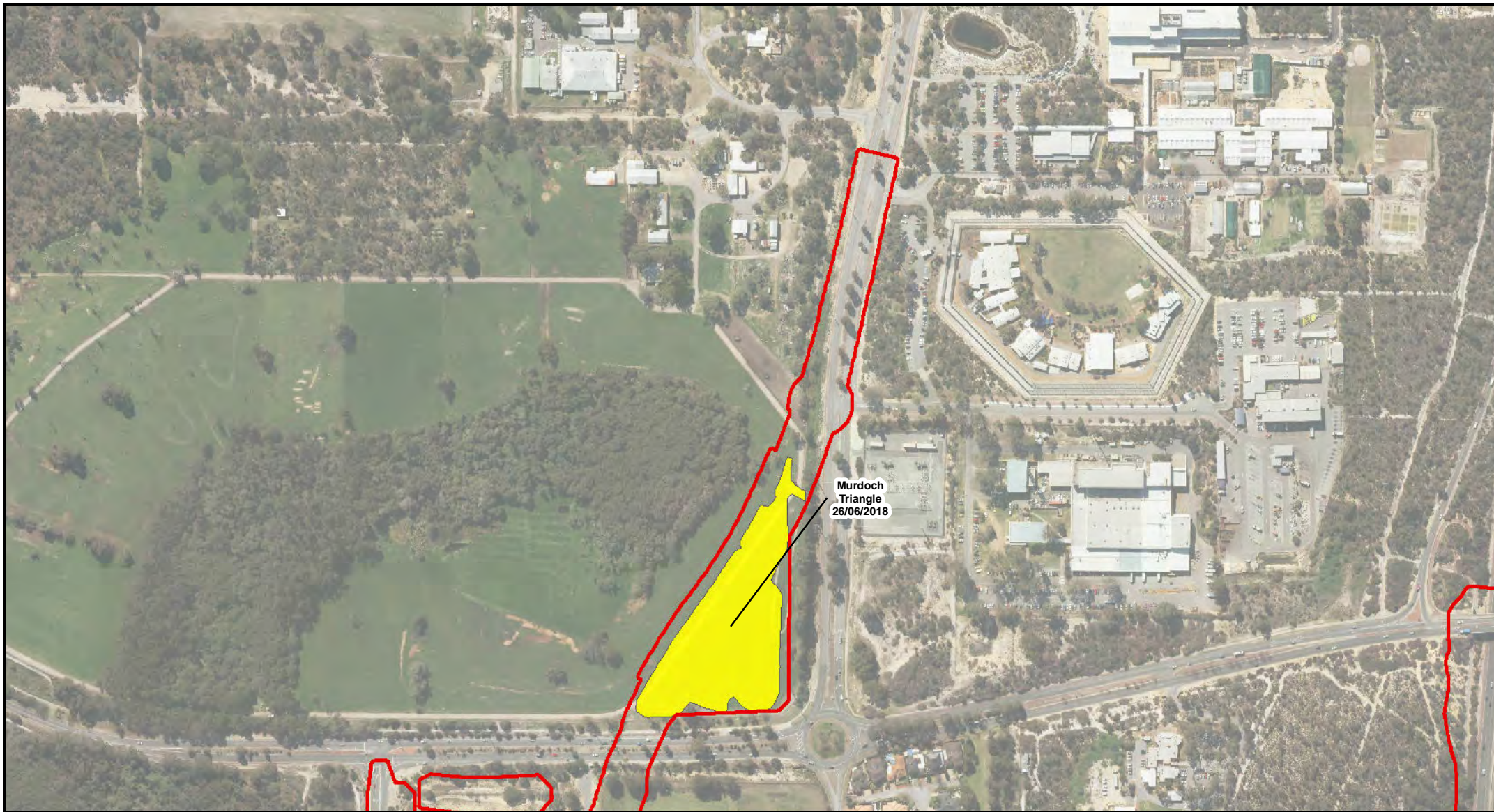


Data sources: Nearmaps 2017  
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

**Clearing to Date**

Main Roads Western Australia

Figure  
1D



PROJECT ID 60478410  
 CREATED BY DGF  
 APPROVED BY JShaw  
 LAST MODIFIED 02 OCT 2018

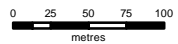


**LEGEND**

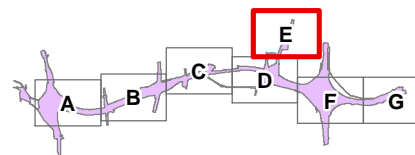
- Native Vegetation within Clearing Area
- Project Development Envelope
- Cleared under Murdoch Drive Connection



DATUM GDA 1994, PROJECTION PERTH COASTAL GRID 1994



1:5,000 when printed at A4

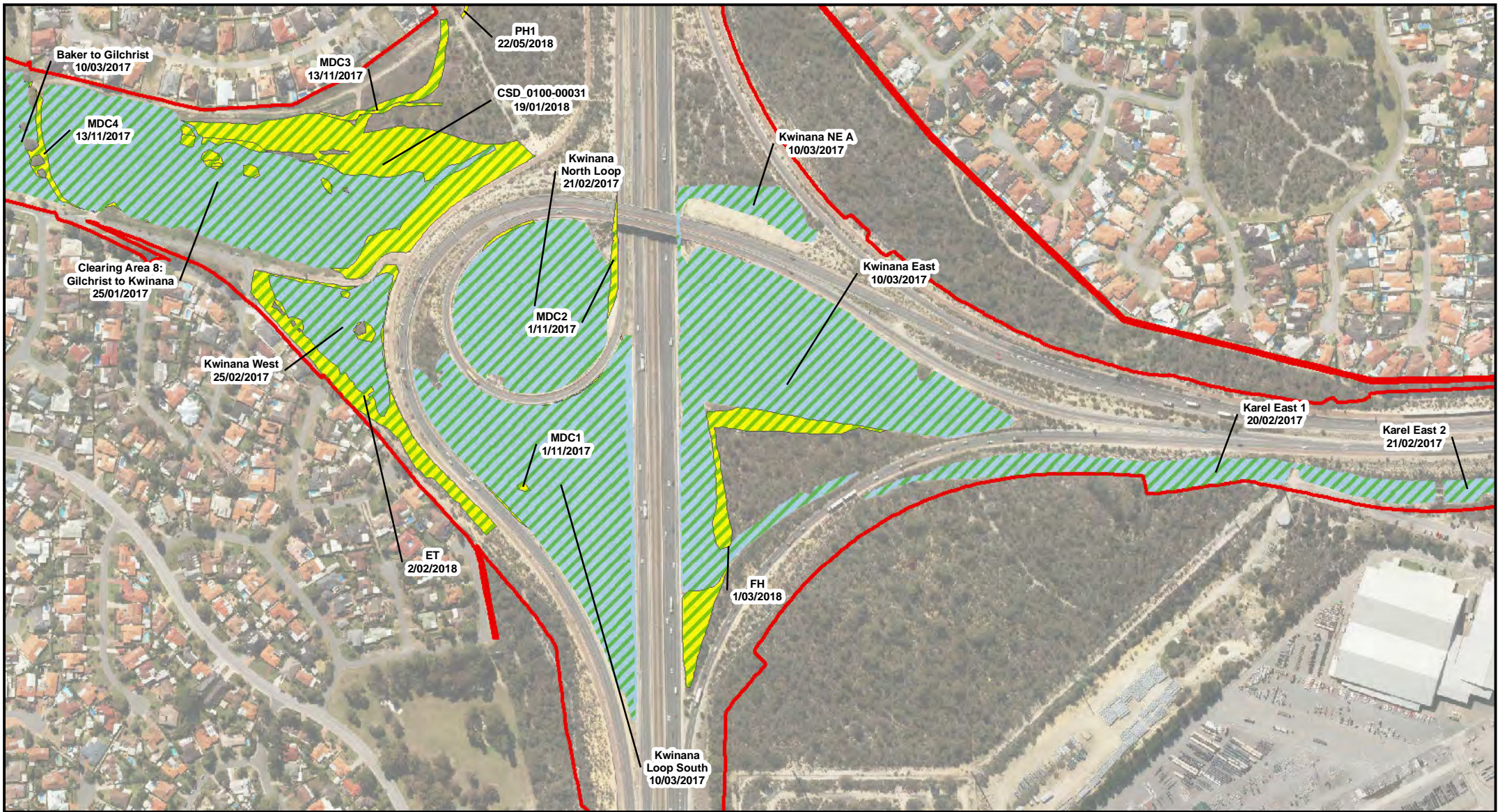


Data sources: Nearmaps 2017  
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

**Clearing to Date**

Main Roads Western Australia

Figure  
 1E



PROJECT ID 60478410  
 CREATED BY DGF  
 APPROVED BY JShaw  
 LAST MODIFIED 02 OCT 2018

**MR IA** Metropolitan Road Improvement Alliance

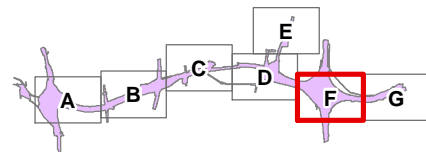
DATUM GDA 1994, PROJECTION PERTH COASTAL GRID 1994

0 25 50 75 100 metres

1:5,000 when printed at A4

**LEGEND**

- Native Vegetation within Clearing Area
- Project Development Envelope
- Cleared under Roe 8
- Cleared under Murdoch Drive Connection



**Clearing to Date**

Main Roads Western Australia

Figure 1F

Data sources: Nearmaps 2017  
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).





PROJECT ID 60478410  
 CREATED BY DGF  
 APPROVED BY JShaw  
 LAST MODIFIED 02 OCT 2018

**MR IA** Metropolitan Road Improvement Alliance

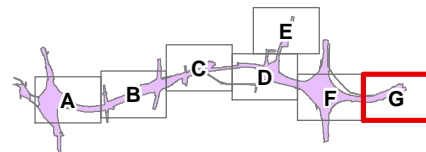
DATUM GDA 1994, PROJECTION PERTH COASTAL GRID 1994

0 25 50 75 100 metres

1:5,000 when printed at A4

**LEGEND**

- Native Vegetation within Clearing Area
- Project Development Envelope
- Cleared under Roe 8



Data sources: Nearmaps 2017  
 Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).

<b>Clearing to Date</b>	
Main Roads Western Australia	
Figure	1G

## 3 AUDIT PLAN

### 3.1 Purpose and scope

#### 3.1.1 Purpose

This document is the third CAR addressing the Project.

The CAR has been prepared to address conditions 4-3 and 4-6 of MS 1008 which state:

4-3 *After receiving notice in writing from the CEO that the Compliance Assessment Plan satisfies the requirements of condition 4-2 the proponent shall assess compliance with conditions in accordance with the Compliance Assessment Plan required by condition 4-1.*

4-6 *The proponent shall submit to the CEO the first Compliance Assessment Report fifteen (15) months from the date of issue of this statement addressing the twelve (12) month period from the date of issue of this statement and then annually from the date of submission of the first Compliance Assessment Report.*

*The Compliance Assessment Report shall:*

- (1) be endorsed by the proponent's Chief Executive Officer or a person delegated to sign on the Chief Executive Officer's behalf;*
- (2) include a statement as to whether the proponent has complied with the conditions;*
- (3) identify all potential non-compliances and describe corrective and preventative actions taken;*
- (4) be made publicly available in accordance with the approved Compliance Assessment Plan; and*
- (5) indicate any proposed changes to the Compliance Assessment Plan required by condition 4-1.*

Condition 4-1 of MS 1008 referred to above states:

*The proponent shall prepare, submit and maintain a Compliance Assessment Plan to the CEO at least six (6) months prior to the first Compliance Assessment Report required by condition 4-6, or prior to implementation, whichever is sooner.*

Condition 4-2 of MS 1008 referred to above states:

4-2 *The Compliance Assessment Plan shall indicate:*

- (1) the frequency of compliance reporting;*
- (2) the approach and timing of compliance assessments;*
- (3) the retention of compliance assessments;*
- (4) the method of reporting of potential non-compliances and corrective actions taken;*
- (5) the table of contents of Compliance Assessment Reports; and*
- (6) public availability of Compliance Assessment Reports.*

A Compliance Assessment Plan (CAP) was prepared to address condition 4-1 of MS 1008 (Strategen 2015). The CAP was approved by the CEO of the OEPA on 19 October 2015.

Condition 4-2 of MS 1008 describes what must be contained in the CAP, with point (5) of condition 4-2 requiring that the CAP shall indicate *the table of contents of compliance assessment reports*. The approved CAP (Strategen 2015) provides this detail, replicated as Table 1 below, with an additional column indicating the corresponding section of this CAR. This CAR has been developed to align with the structure indicated in the CAP, which was guided by *Post Assessment Guideline No. 3 Preparing a Compliance Assessment Report* (OEPA 2012a).

Table 2 Table of contents for Compliance Assessment Report

Heading	Description	Section
Introduction	Brief about the Project, including:	1.1
	Project background	1.2
	Project approvals Proponent details	1.3
Current status	Summary of the current implementation status of the Project, specifically milestones/achievements within the reporting period.	2
Statement of Compliance	Statement of whether the proponent has complied with the conditions	Appendices
Endorsement	Endorsed by Main Roads Managing Director or a person delegated to sign on the Managing Director's behalf	Appendices
Non-compliances	Identify all non-compliances and corrective actions	4.1 Appendices
Audit methodology	Description of how the audit was undertaken including:	3.1
	Audit plan: purpose, scope, audit period, audit criteria, methodology Audit terminology	3.1.5
Audit results	Inclusion of a summary review of performance with respect to monitoring results and interpretation of analysis of the results for each plan and related advice with respect to achievement of applicable criteria during the reporting period.	4
Proposed changes to CAP	Indication of any proposed changes to the CAP requirement by condition 4-1.	4.2
Appendices	<ol style="list-style-type: none"> <li>1. Statement of compliance prepared in accordance with the OEPA Post Assessment Form for a Statement of Compliance and endorsed by the proponent's Managing Director or a person delegated to sign on the Managing Director's behalf.</li> <li>2. Ministerial Statement audit table in accordance with Appendix 1 of the CAP.</li> <li>3. MS 1008 Schedule 1 audit table.</li> <li>4. Subsidiary plans audit tables (potentially non-conformant items only).</li> <li>5. Evidence (related to potential non-compliances/non-conformances only).</li> <li>6. Summary table of evidence reviewed.</li> <li>7. Other appendices may be included where relevant from time to time.</li> </ol>	Appendices

### 3.1.2 Scope

This CAR has been prepared to assess whether the proponent has been, is being, has not or is not (Section 3.1.2), complying with 12 conditions including Schedule 1 of MS 1008 over the reporting period.

An assessment of compliance with the conditions of MS 1008 is provided in Section 4 and Appendix 2. Further detail with respect to compliance with Schedule 1 of MS 1008 is provided in Appendix 3. Audit table relating to any non-conformances of conditions for the management plans required under MS 1008 are including within Appendix 4.

### 3.2 Audit Period

This CAR addresses the twelve month reporting period from 2 July 2017 to 1 July 2018.

### 3.3 Audit Criteria

Audit criteria were based on the conditions of approval of MS 1008. An audit table has been prepared in accordance with the approved CAP (Appendix 2). The audit table contains each condition separated into audit elements for auditing purposes (i.e. the audit criteria), and includes the following headings:

- Audit code: Ministerial Statement reference number
- Subject: the environmental theme/issue
- Requirement: what the proponent must do
- How: the manner in which the requirements of an audit element should be achieved
- Evidence: information or data collected to verify compliance, i.e. report/letter/site inspection requirements
- Phase: project phase applicable to audit element
- Timeframe: specific timing for achieving the requirements of an audit element
- Status: notes about the fulfilment of compliance using compliance status terms
- Further information: additional comments to support compliance findings, where required

### 3.4 Methodology

As the implementation of the Project was undertaken by MRIA, the audit was a mixture of reviewing records from both the MRIA office, and obtaining Main Roads advice on the status and supporting documentary evidence to verify compliance with applicable conditions.

This compliance audit was undertaken by MRIA on behalf of Main Roads.

### 3.5 Terminology

The 'Status' field of the audit table (refer to Appendix 2 and Appendix 3) describes the implementation of the action and compliance with the condition, procedure or commitment. Although the CEO of the Department of Eater and Environment Regulation (DWER) makes the final determination of compliance, it is necessary to update this field each reporting period, as the project progresses. DWER (OEPA, 2012a, 2012b, 2012c and 2012d) has prepared updated guidance related to the preparation of compliance audits, including generic expressions that are used to identify the status of each item (refer to Table 1 of Appendix 1).

## 4 AUDIT RESULTS

### 4.1 Compliance with conditions

Main Roads Western Australia (Main Roads) is generally compliant with all conditions of MS 1008 for the period addressed in the CAR. Non-compliance identified in the 2017-2018 audit period includes:

- Part 3 of Condition 9-9 of MS 1008 relating to reporting of exceedances of Wetland monitoring trigger criteria to the CEO
- Part 3 of Condition 10-9 of MS 1008 relating to reporting of exceedances of Flora and Vegetation monitoring trigger criteria to the CEO.

There have been 'semi-frequent' fluctuations of results against the groundwater and surface water baseline and guideline triggers; however these were due to natural and seasonal variation of groundwater and surface water. It is likely that factors not related to the project have influenced the results of the monitoring. This includes natural fluctuation over time, the change of project scope, rainfall variation and seasonality, limitations with monitoring methods and idiosyncratic effects.

All vegetation quadrats exceeded one or more triggers. In particular, the density and foliage cover of native and weed species relative to reference quadrats was exceeded by all quadrats with the exception of one for each instance. Furthermore, a change of 10% in indicator species health was exceeded by all quadrats.

These were not reported to the CEO within seven days as required by condition 9-9(3) or 10-9(3).

A Statement of Compliance has also been included at Appendix 1.

Compliance with the conditions of MS 1008 for the Project has been assessed and reported using the Audit Table provided in Appendix 2.

### 4.2 Proposed Changes to Compliance Assessment Plan

This CAR has been prepared consistent with the approved CAP (Strategen 2015), no changes are proposed at this stage.

## 5 REFERENCES

Office of Environmental Protection Authority (OEPA) 2012a, Post Assessment Guideline for Preparing a Compliance Assessment Plan, OEPA, Perth, August 2012.

Office of Environmental Protection Authority (OEPA) 2012b, Post Assessment Guideline for Preparing an Audit Table, OEPA, Perth, August 2012.

Office of Environmental Protection Authority (OEPA) 2012c, Post Assessment Guideline for Making Information Publically Available, OEPA, Perth, August 2012.

Office of Environmental Protection Authority (OEPA) 2012d, Post Assessment Guideline for Preparing a Compliance Assessment Report, OEPA, Perth, August 2012.

Strategen 2015, Main Roads Roe Highway Extension Compliance Assessment Plan – Statement 1008, report prepared for Main Roads Western Australia, September 2015.

## 6 APPENDICES

Appendix	Title
<b>Appendix 1</b>	Statement of Compliance
<b>Appendix 2</b>	MS 1008 Audit Table
<b>Appendix 3</b>	MS 1008 Schedule 1 Audit Table
<b>Appendix 4</b>	Subsidiary Plans Summary of Compliance and Audit Tables
<b>Appendix 5</b>	Evidence Summary Table

## **Appendix 1: Statement of Compliance**

## Statement of Compliance

### 1 Proposal and Proponent Details

Proposal Title	<i>Roe Highway Extension</i>
Statement Number	<i>1008</i>
Proponent Name	<i>Main Roads Western Australia</i>
Proponent's Australian Company Number (where relevant)	50 860 676 021

### 2 Statement of Compliance Details

Reporting Period	<i>2/07/17 to 1/07/18</i>
------------------	---------------------------

Implementation phase(s) during reporting period (please tick ✓ relevant phase(s))							
Pre-construction	<input checked="" type="checkbox"/>	Construction	<input checked="" type="checkbox"/>	Operation	<input type="checkbox"/>	Decommissioning	<input type="checkbox"/>

Audit Table for Statement addressed in this Statement of Compliance is provided at Attachment:	D
<p>An audit table for the Statement addressed in this Statement of Compliance must be provided as Attachment 2 to this Statement of Compliance. The audit table must be prepared and maintained in accordance with the Office of the Environmental Protection Authority's (OEPA) <i>Post Assessment Guideline for Preparing an Audit Table</i>, as amended from time to time. The 'Status Column' of the audit table must accurately describe the compliance status of each implementation condition and/or procedure for the reporting period of this Statement of Compliance. The terms that may be used by the proponent in the 'Status Column' of the audit table are limited to the Compliance Status Terms listed and defined in Table 1 of Attachment 1.</p>	

Were all implementation conditions and/or procedures of the Statement complied with within the reporting period? (please tick ✓ the appropriate box)			
No (please proceed to Section 3)	<input checked="" type="checkbox"/>	Yes (please proceed to Section 4)	<input type="checkbox"/>

Each page (including Attachment 2) must be initialed by the person who signs Section 4 of this Statement of Compliance. INITIALS: \_\_\_\_\_



### 3 Details of Non-compliance(s) and/or Potential Non-compliance(s)

The information required Section 3 must be provided for each non-compliance or potential non-compliance identified during the reporting period covered by this Statement of Compliance.

#### Non-compliance/potential non-compliance 3-1

Which implementation condition or procedure was non-compliant or potentially non-compliant?	
MS 1008 condition 9-9 (3): <i>In the event that the monitoring indicates that the trigger criteria specified in the Wetlands Monitoring and Management Plan have been exceeded the proponent shall:</i>	
<p>(1) immediately implement the management and/or contingency actions specified in the Wetlands Monitoring and Management Plan and continue implementation of those actions until the trigger criteria are being met, or until the CEO has confirmed by notice in writing that it has been demonstrated that the outcome in condition 9-1 is being and will continue to be met and implementation of the management and/or contingency actions is no longer required;</p> <p>(2) investigate to determine the likely cause of the trigger criteria being exceeded and to identify any additional contingency actions required to prevent the trigger criteria being exceeded in the future; and</p> <p>(3) provide a report to the CEO within seven days of an event, referred to in condition 9-9, occurring. The report shall include:</p> <p>a. details of management and/or contingency actions implemented; and</p> <p>b. the findings of the investigation required by condition 9-9(2).</p>	
Was the implementation condition or procedure non-compliant or potentially non-compliant?	
Potentially non-compliant	
On what date(s) did the non-compliance or potential non-compliance occur (if applicable)?	
2 July 2017 – 1 July 2018	
Was this non-compliance or potential non-compliance reported to the General Manager, OEPA?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> Reported to OEPA verbally      Date _____ <input checked="" type="checkbox"/> Reported to OEPA in writing      Date <u>27/09/2018</u>	
What are the details of the non-compliance or potential non-compliance and where relevant, the extent of and impacts associated with the non-compliance or potential non-compliance?	
<p>The non-compliance was in regards to Part 3 of condition 9-9. A bimonthly trigger report is prepared for all groundwater and surface water monitoring events against the trigger results. However, these reports were not provided to the CEO within seven days of the event occurring. The CEO has not been notified as all monitoring exceedances occurred in non-impact areas and are therefore are part of the natural variation of the site conditions. There have been numerous exceedances throughout the year at all monitoring locations and this indicates that the trigger criteria have been set too low, not that the Project is causing an impact.</p>	
What is the precise location where the non-compliance or potential non-compliance occurred (if applicable)? (please provide this information as a map or GIS co-ordinates)	
All Wetland surface water and ground water monitoring locations (refer to Figures in the Wetland Monitoring and Management Plan).	
What was the cause(s) of the non-compliance or potential non-compliance?	
The CEO was not provided a report within seven days of a trigger event occurring.	
What remedial and/or corrective action(s), if any, were taken or are proposed to be taken in response to the non-compliance or potential non-compliance?	

Each page (including Attachment 2) must be initialed by the person who signs Section 4 of this Statement of Compliance. INITIALS: \_\_\_\_\_

The CEO has been notified of the non-conformance. Trigger reports can be provided to the CEO within seven days of the event during the next audit period, or the WMMP can be revised and reasonable trigger criteria applied.
What measures, if any, were in place to prevent the non-compliance or potential non-compliance before it occurred? What, if any, amendments have been made to those measures to prevent re-occurrence?
All exceedances are measuring natural and seasonal fluctuations as no impacts have occurred at the monitoring locations. The exceedances of the triggers are not preventable at this stage and contingency actions have revolved around additional monitoring events. Exceedances will be reported to the CEO from the date of this CAR. Systems have been updated to facilitate reporting.
Please provide information/documentation collected and recorded in relation to this implementation condition or procedure: <ul style="list-style-type: none"> <li>• in the reporting period addressed in this Statement of Compliance; and</li> <li>• as outlined in the approved Compliance Assessment Plan for the Statement addressed in this Statement of Compliance.</li> </ul> (the above inform action may be provided as an attachment to this Statement of Compliance)
Provided in R_20180926_RPT_MRIA_Annual Wetland Monitoring Compliance Report

Which implementation condition or procedure was non-compliant or potentially non-compliant?					
<p>MS 1008 condition 10-9(3):  <i>In the event that the monitoring indicates that the trigger criteria specified in the Flora and Vegetation Monitoring and Management Plan have been exceeded the proponent shall:</i></p> <ul style="list-style-type: none"> <li>(1) <i>immediately implement the management and/or contingency actions specified in the Flora and Vegetation Monitoring and Management Plan and continue implementation of those actions until the trigger criteria are being met, or until the CEO has confirmed by notice in writing that it has been demonstrated that the outcome in condition 10-1 is being and will continue to be met and implementation of the management and/or contingency actions is no longer required;</i></li> <li>(2) <i>investigate to determine the likely cause of the trigger criteria being exceeded and to identify any additional contingency actions required to prevent the trigger criteria being exceeded in the future; and</i></li> <li>(3) <i>provide a report to the CEO within seven days of an event, referred to in condition 10-9, occurring. The report shall include:</i> <ul style="list-style-type: none"> <li>c. <i>details of management and/or contingency actions implemented; and</i></li> <li>d. <i>the findings of the investigation required by condition 10-9(2).</i></li> </ul> </li> </ul>					
Was the implementation condition or procedure non-compliant or potentially non-compliant?					
Potentially non-compliant					
On what date(s) did the non-compliance or potential non-compliance occur (if applicable)?					
2 July 2017 – 1 July 2018					
Was this non-compliance or potential non-compliance reported to the General Manager, OEPA?					
<input checked="" type="checkbox"/> Yes <table style="width: 100%; border: none;"> <tr> <td style="border: none; width: 50%;"> <input type="checkbox"/> Reported to OEPA verbally      Date _____                 </td> <td style="border: none; width: 50%; text-align: right;"> <input type="checkbox"/> No                 </td> </tr> <tr> <td style="border: none;"> <input checked="" type="checkbox"/> Reported to OEPA in writing      Date <u>27/09/2018</u> </td> <td style="border: none;"></td> </tr> </table>		<input type="checkbox"/> Reported to OEPA verbally      Date _____	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Reported to OEPA in writing      Date <u>27/09/2018</u>	
<input type="checkbox"/> Reported to OEPA verbally      Date _____	<input type="checkbox"/> No				
<input checked="" type="checkbox"/> Reported to OEPA in writing      Date <u>27/09/2018</u>					
What are the details of the non-compliance or potential non-compliance and where relevant, the extent of and impacts associated with the non-compliance or potential non-compliance?					
<p>The non-compliance was in regards to Part 3 of condition 10-9. An annual report is prepared for the Flora and Vegetation monitoring against the trigger criteria. However, the reports were not provided to the CEO within seven days of the exceedances occurring. The CEO has not been notified as all monitoring exceedances occurred in non-impact areas and are therefore not as a result of Project impacts, but are part of the natural variation of the site conditions. There have been exceedances in all monitoring quadrat locations and this indicates that the trigger criteria are incorrect, not that the Project is causing an impact.</p>					
What is the precise location where the non-compliance or potential non-compliance occurred (if applicable)? (please provide this information as a map or GIS co-ordinates)					
All Flora and Vegetation monitoring quadrat locations (refer to Figures in the Flora and Vegetation Monitoring and Management Plan).					
What was the cause(s) of the non-compliance or potential non-compliance?					
The CEO was not provided a report within seven days of a trigger criteria exceedance.					
What remedial and/or corrective action(s), if any, were taken or are proposed to be taken in response to the non-compliance or potential non-compliance?					
The CEO has been notified of the non-conformance. Future exceedances will be provided to the CEO within seven days of the event during the next audit period, or the FVMMP can be revised and reasonable trigger criteria applied.					
What measures, if any, were in place to prevent the non-compliance or potential non-compliance before it occurred? What, if any, amendments have been made to those measures to prevent re-occurrence?					
All exceedances are measuring natural and seasonal fluctuations as no impacts have occurred at the monitoring locations. The exceedances of the triggers are not preventable at this stage and					

Each page (including Attachment 2) must be initialed by the person who signs Section 4 of this Statement of Compliance. INITIALS: \_\_\_\_\_

contingency actions have not been implemented as no impact has occurred. Exceedances will be reported to the CEO in the next audit period.

Please provide information/documentation collected and recorded in relation to this implementation condition or procedure:

- in the reporting period addressed in this Statement of Compliance; and
- as outlined in the approved Compliance Assessment Plan for the Statement addressed in this Statement of Compliance.

(the above information may be provided as an attachment to this Statement of Compliance)

Provided in R\_20180921\_RPT\_MRIA\_Annual Flora and Vegetation Monitoring Compliance Report

#### 4 Proponent Declaration

I, \_\_\_\_\_ (full name and position title) declare that I am authorised on behalf of the Commissioner of Main Roads Western Australia (being the person responsible for the proposal) to submit this form and that the information contained in this form is true and not misleading.

Signature:..... Date:.....

Please note that:

- it is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give or cause to be given information that to his knowledge is false or misleading in a material particular; and
- the Chief Executive Officer of the DWER has powers under section 47(2) of the Environmental Protection Act 1986 to require reports and information about implementation of the proposal to which the statement relates and compliance with the implementation conditions.

#### 5 Submission of Statement of Compliance

One hard copy and one electronic copy (preferably PDF on CD or thumb drive) of the Statement of Compliance are required to be submitted to the Chief Executive Officer, DWER, marked to the attention of Manager, Compliance (Ministerial Statements).

Please note, the DWER has adopted a procedure of providing written acknowledgment of receipt of all Statements of Compliance submitted by the proponent, however, the DWER does not approve Statements of Compliance.

#### 6 Contact Information

Queries regarding Statements of Compliance, or other issues of compliance relevant to a Statement may be directed to Compliance (Ministerial Statements), DWER:

**Manager, Compliance (Ministerial Statements)**

**Department of Water and Environmental Regulation**

Postal Address: Locked Bag 33  
Cloisters Square  
PERTH WA 6850

Phone: (08) 6364 7000

Email: [compliance@dwer.wa.gov.au](mailto:compliance@dwer.wa.gov.au)

#### 7 Post Assessment Guidelines and Forms

Post assessment documents can be found at [www.epa.wa.gov.au](http://www.epa.wa.gov.au)

Each page (including Attachment 2) must be initialed by the person who signs Section 4 of this Statement of Compliance. INITIALS: \_\_\_\_\_

**ATTACHMENT 1****Table 1 Compliance Status Terms**

<b>Compliance Status Terms</b>	<b>Abbrev</b>	<b>Definition</b>	<b>Notes</b>
Compliant	C	Implementation of the proposal has been carried out in accordance with the requirements of the audit element.	This term applies to audit elements with: <ul style="list-style-type: none"> <li>• ongoing requirements that have been met during the reporting period; and</li> <li>• requirements with a finite period of application that have been met during the reporting period, but whose status has not yet been classified as 'completed'.</li> </ul>
Completed	CLD	A requirement with a finite period of application has been satisfactorily completed.	This term may only be used where: <ul style="list-style-type: none"> <li>• audit elements have a finite period of application (e.g. construction activities, development of a document);</li> <li>• the action has been satisfactorily completed; and</li> <li>• the Office of the Environmental Protection Authority (OEPA) has provided written acceptance of 'completed' status for the audit element.</li> </ul>
Not required at this stage	NR	The requirements of the audit element were not triggered during the reporting period.	This should be consistent with the 'Phase' column of the audit table.
Potentially Non-compliant	PNC	Possible or likely failure to meet the requirements of the audit element.	This term may apply where during the reporting period the proponent has identified a potential non-compliance and has not yet finalized its investigations to determine whether non-compliance has occurred.
Non-compliant	NC	Implementation of the proposal has not been carried out in accordance with the requirements of the audit element.	This term applies where the requirements of the audit element are not "complete" have not been met during the reporting period.

Each page (including Attachment 2) must be initialed by the person who signs Section 4 of this Statement of Compliance. INITIALS: \_\_\_\_\_

<p>In Process</p>	<p>IP</p>	<p>Where an audit element requires a management or monitoring plan be submitted to the OEPA or another government agency for approval, that submission has been made and no further information or changes have been requested by the OEPA or the other government agency and assessment by the OEPA or other government agency for approval is still pending.</p>	<p><b>The term 'In Process' may not be used for any purpose other than that stated in the Definition Column.</b></p> <p>The term 'In Process' may not be used to describe the compliance status of an implementation condition and/or procedure that requires implementation throughout the life of the project (e.g. implementation of a management plan).</p>
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Your ref: MS 1008 – Potential Non-Compliance  
Our ref: DWERA-000236  
Enquiries: Jaala Baldock, Ph 0439 561 295  
Email: Jaala.Baldock@dwer.wa.gov.au

Mr Peter Woronzow  
A/ Managing Director of Main Roads  
Main Roads Western Australia  
PO Box 6202  
EAST PERTH WA 6202

ATTN: Mr John Braid – Principal Environment Officer

Dear Mr Woronzow

**STATEMENT 1008 – ROE HIGHWAY EXTENSION – LETTER OF NON-COMPLIANCE**

Main Roads Western Australia (MRWA) is formally notified that the Department of Water and Environmental Regulation (DWER) considers that non-compliance with conditions 9-9(3) and 10-9(3) of Statement 1008 have occurred. As a result, the non-compliances will appear in the Chief Executive Officer's (CEO's) Quarterly Non-Compliance Report to the Minister for the Environment. Under section 48(1) of the *Environmental Protection Act 1986* (EP Act), the CEO of DWER must report all matters of non-compliance to the Minister.

**Details of non-compliance:**

Condition 9-9 reads in part: *In the event that the monitoring indicates that the trigger criteria specified in the Wetlands Monitoring and Management Plan have been exceeded the proponent shall: (3) provide a report to the CEO within seven days of an event, referred to in condition 9-9, occurring. The report shall include: (a) details of management and/or contingency actions implemented; and (b) the findings of the investigation required by condition 9-9(2).*

Condition 10-9 reads in part: *In the event that the monitoring indicates that the trigger criteria specified in the Flora and Vegetation Monitoring and Management Plan have been exceeded the proponent shall: (3) provide a report to the CEO within seven days of an event, referred to in condition 10-9, occurring. The report shall include: (a) details of management and/or contingency actions implemented; and (b) the findings of the investigation required by condition 10-9(2).*

MRWA advised DWER on 28 September 2018 (ref: 2018-1539219149885) of potential non-compliance with conditions 9-9(3) and 10-9(3) of Ministerial Statement 1008. The



non-compliance specifically relates to the exceedance of the trigger criteria set in the Wetland Management and Monitoring Plan (WMMP) and the Flora and Vegetation Management and Monitoring Plan (FVMMP) and that these exceedances not having been reported within 7 days.

**Resolution of non-compliance:**

The DWER notes that MRWA self-reported the potential non-compliance with conditions 9-9(3) and 10-9(3).

DWER notes that monitoring required under the WMMP and FVMMP has been undertaken in accordance with the requirements of the plans and that where trigger criteria exceedances were identified, contingency actions to identify the cause of the exceedance were undertaken by MRWA.

MRWA has attributed all trigger criteria exceedances not to be project attributable due to the distance between the location of where works are being undertaken and the wetlands being monitored (approximately at least 1 kilometre). MRWA state that the failure to report these trigger exceedances was an oversight and a failure of process, but has not resulted in any environmental harm and is instead aligned with natural variation.

DWER notes that MRWA has since commenced reporting trigger criteria exceedances in accordance with conditions 9-9 and 10-9 (ref 2018-1539219014249).

MRWA is advised that reporting of trigger exceedances must continue in accordance with conditions 9-9 and 10-9.

DWER considers this matter resolved.

**Consequence of non-compliance:**

MRWA is advised that if a proposal is not carried out in accordance with the implementation conditions and procedures set out in the relevant Statement, enforcement action may be taken under the EP Act.

Yours sincerely



**Stuart Cowie**

EXECUTIVE DIRECTOR  
COMPLIANCE AND ENFORCEMENT  
for the Chief Executive Officer  
under Notice of Delegation date 3 July 2017

26 October 2018



Our Ref: W81020-AD-CORR-MS1008 Conditions Investigation Report

Your Ref: 14/8717

28 September 2018

Terry Pearce

Project Director

Infrastructure Delivery Directorate

Main Roads Western Australia

Dear Terry

**INVESTIGATION INTO POTENTIAL NON-CONFORMANCE OF MS 1008 CONDITIONS 9-9(3) AND 10-9(3)**

Both condition 9-9(3) and 10-9(3) have a requirement for exceedances of trigger criteria to be reported to the CEO of DWER within seven days of an event. These conditions state specifically:

**Condition 9-9**

9-9(1) immediately implement the management and/or contingency actions specified in the Wetlands Monitoring and Management Plan and continue implementation of those actions until the trigger criteria are being met, or until the CEO has confirmed by notice in writing that it has been demonstrated that the outcome in condition 9-1 is being and will continue to be met and implementation of the management and/or contingency actions is no longer required;

9-9(2) investigate to determine the likely cause of the trigger criteria being exceeded and to identify any additional contingency actions required.

9-9(3) provide a report to the CEO within seven days of an event, referred to in condition 9-9, occurring. The report shall include:

- a. details of management and/or contingency actions implemented; and
- b. the findings of the investigation required by condition 9-9(2).

**Condition 10-9**

10-9(1) immediately implement the management and/or contingency actions specified in the Flora and Vegetation Monitoring and Management Plan and continue implementation of those actions until the trigger criteria are being met, or until the CEO has confirmed by notice in writing that it has been demonstrated that the outcome in condition 10-1 is being and will continue to be met and implementation of the management and/or contingency actions is no longer required;



10-9(2) investigate to determine the likely cause of the trigger criteria being exceeded and to identify any additional contingency actions required to prevent the trigger criteria being exceeded in the future; and

10-9(3) provide a report to the CEO within seven days of an event, referred to in condition 10-9, occurring. The report shall include:

- a. details of management and/or contingency actions implemented; and
- b. the findings of the investigation required by condition 10-9(2).

### **Potential non-conformance description**

During the preparation of the Compliance Assessment Report (CAR) it has become apparent that trigger criteria set in the Wetland Management and Monitoring Plan (WMMP) and the Flora and Vegetation Management and Monitoring Plan (FVMMP) have been exceeded and these exceedances have not been reported to DWER/EPA as per conditions 9-9(3) and 10-9(3).

The WMMP and FVMMP were both required to be implemented prior to construction as per Condition 9-5 and 10-5. Wetland monitoring commenced in 2015 long before construction and the data collection was seen as additional baseline data to provide a better understanding of the impact of construction. The construction for the Murdoch Drive Connection did not commence until November 2017 and reporting of exceedances should have commenced at this time, despite the construction occurring at a distance from the wetlands and vegetation monitoring quadrats.

### **Immediate actions undertaken**

Where trigger exceedances were identified, contingency actions to identify the cause of the exceedance have been undertaken. Contingency actions undertaken include:

- Resampling within four weeks of the sampling event
- Comparison with previous data collected from the sample site, control sites, reference bores and other nearby sites

### **Investigation findings**

In all cases the trigger exceedances have been deemed to be not project attributable. There was confusion as to whether all exceedances required reporting or whether only exceedances indicating impacts required reporting. Exceedances do not indicate environmental harm, as there are no construction impacts occurring west of Bibra Drive. The failure to report these trigger exceedances is an oversight and a failure of process.

### **Proposed corrective action**

Discussions with Main Roads have been undertaken to determine reporting requirements.

A template Exceedance Report has been prepared to ensure the correct data is captured for reporting (attached). Monitoring Technicians have been instructed by the Approvals Manager – MRIA to complete the report after every fortnightly sampling round to meet the seven day requirements as part of the monitoring procedure.

The data is already reviewed at the end of the monitoring event, and most triggers have been exceeded as a result of seasonal process such as wetting or drying events.



**Metropolitan Road  
Improvement Alliance**

These exceedances will now be reported to Main Roads within the seven day period as per the attached template so that they can be sent to EPA Services.

If you have any questions please contact Linda Kirchner on 6208 1524.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Linda Kirchner', is written over a light grey rectangular background.

Linda Kirchner

Environmental Approvals MRIA



Our Ref: W81020-AD-CORR-MS1008 Conditions

<DATE>

Environmental Protection Authority Compliance  
168 St Georges Terrace  
PERTH WA 6000

Dear

**METROPOLITAN ROAD IMPROVEMENT ALLIANCE - ROE HIGHWAY EXTENSION  
(PROJECT) WETLAND MONITORING**

As per the requirements of the Ministerial Conditions 9.9(3), the Metropolitan Road Improvement Alliance (MRIA) hereby advises the CEO of the Office of Environmental Protection Authority (OEPA) of exceedances of thresholds and/or trigger criteria as set out in the Wetlands Monitoring and Management Plan (WWMP) listed below, from the results of sampling undertaken by MRIA in <MONTH YEAR>.

- Roe Highway Extension – 247607-057-R-001 Baseline Analysis Report, Rev 0, October 2016; and
- Australia and New Zealand Environment and Conservation Council Fresh Water Quality Guidelines 2000, (ANZECC)

**Summary of Monitoring Event**

Groundwater and surface water monitoring was conducted in accordance with the methodology and procedures presented in the WWMP.

Sampling was carried out on the <DATE>. All groundwater bores were sampled, with the exception of GW-D7 and GW-T2F (permanently destroyed) <and xxx due to xxx>.

All surface water locations were able to be sampled, <with the exception of xxx due to xxx>.

**Groundwater Results**

Results are presented in tables in Attachment A, with a general summary given below.

pH

Monitoring results varied from xx to xx. Out of xx bores, xx were in exceedance of the baseline, and xx exceeded the ANZECC guideline.

Monitoring results varied from xx to xx, with baseline range for surface water pH specific to each wetland. There were xx exceedances of the baseline and/or xx exceedances of ANZECC guidelines out of the xx location sampled.



### EC and TDS

Electrical conductivity (EC) and (TDS) both had **xx** exceedances each for groundwater bores. At surface water locations EC exceeded **xx** times and TDS exceeded **xx** times.

### Turbidity

Turbidity was measured only at surface water locations, and exceeded the baseline range **xx** times and the ANZECC guidelines **xx** times.

### **Likely cause of exceedances**

A result of **<insert event >** pH has **<increased/decreased>** from the previous monitoring round, indicating **<slightly acidic/neutral etc>** conditions. There has also been an **<increase/decrease>** in EC/TDS values, indicating **<fresher/more saline>** conditions.

Exceedances are likely caused by the **<above event>**.

### **Management and/or contingency actions implemented**

The following actions were undertaken:

- Investigated data and compared with reference data and previous sampling rounds.
- Determined whether remedial actions were required
- Future sampling planned

### **Conclusions**

If you have any queries please do not hesitate to contact the undersigned,

Yours sincerely,

Linda Kirchner  
**Environmental Approvals**  
**Roe Highway Extension (MRIA)**

## **Appendix 2: MS 1008 Audit Table**

Appendix 2: Ministerial Statement 1008 audit table

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M1-1	Proposal implementation	When implementing the proposal, the proponent shall not exceed the authorised extent of the proposal as defined in Column 3 of Table 2 in Schedule 1, unless amendments to the proposal and the authorised extent of the proposal has been approved under the EP Act.	Implement Proposal as described in Schedule 1.	Figure 1_Clearing Area	Overall.	Ongoing.	C	Pre-construction and construction activities for the Murdoch Drive Connection (MDC) continued mid-2018, including native vegetation clearing. To date, a total of 36.93 ha of native vegetation has been cleared, of which 2.96 ha was within the audit period. Approximately 0.17 ha of vegetation has been cleared within EPP lakes areas, none of which was within this audit period.
1008:M2-1	Contact details	The proponent shall notify the CEO of any change of its name, physical address or postal address for the serving of notices or other correspondence within twenty eight (28) days of such change. Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State.	Submit written notification to the CEO of OEPA.	NR	Overall.	Within 28 days of change.	NR	Main Roads Western Australia remains the Proponent. There has been no change to the name, physical address or postal address of the Proponent in the audit period.
1008:M3-1	Time limit for proposal implementation	The proponent shall not commence implementation of the proposal after the expiration of five (5) years from the date of this statement, and any commencement, prior to this date, must be substantial.	Commence substantial implementation of Proposal by 2 July 2020.	2017 CAR	Overall.	By 2 July 2020.	CLD	The Project commenced 5 December 2016, prior to the time limit for proposal implementation.
1008:M3-2		Any commencement of implementation of the proposal, on or before five (5) years from the date of this statement, must be demonstrated as substantial by providing the CEO with written evidence, on or before the expiration of five (5) years from the date of this statement.	Provide written evidence of substantial commencement of implementation on or before 2 July 2020.	2017 CAR	Overall.	By 2 July 2020.	CLD	The 2017CAR provides a record of the commencement of the Project, within the required timeframe.
1008:M4-1	Compliance reporting	The proponent shall prepare, submit and maintain a Compliance Assessment Plan to the CEO at least six (6) months prior to the first Compliance Assessment Report required by condition 4-6, or prior to implementation, whichever is sooner.	Prepare a Compliance Assessment Plan and submit to the CEO of OEPA for approval.	2017 CAR	Pre-construction.	By 2 April 2016 or prior to commencement of construction, whichever is earlier.	CLD	The Compliance Assessment Plan (CAP) was approved by the CEO of the OEPA on 19 October 2015, eleven months prior to the first CAR, and 15 months prior to commencement of pre-construction works.  The first CAR was submitted in September 2016, with works not commencing until December 2016.
1008:M4-2		The Compliance Assessment Plan shall indicate:  (1) the frequency of compliance reporting;  (2) the approach and timing of compliance assessments;  (3) the retention of compliance assessments;  (4) the method of reporting of potential non-compliances and corrective actions taken;  (5) the table of contents of Compliance Assessment Reports; and  (6) public availability of Compliance Assessment Reports.	Prepare and submit to the CEO of OEPA a CAP addressing all requirements.	C_20151019_LTR_OEPA_MRWA_Compliance Assessment Plan Approved	Overall.	Prior to implementation or six months prior to first compliance report.	CLD	The CAP was approved by the CEO of the OEPA on 19 October 2015.
1008:M4-3		After receiving notice in writing from the CEO that the Compliance Assessment Plan satisfies the requirements of condition 4-2 the proponent shall assess compliance with conditions in accordance with the Compliance Assessment Plan required by condition 4-1.	Undertake annual compliance assessments in accordance with the approved CAP.	R_20160927_RPT_Strategen_Roe Highway Extension_2016 CAR  C_20160928_LTR_MRWA_EPA_Roe Highway Extension_2016 CAR Cover Letter  R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR  C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover	Overall.	Ongoing, annually.	C	The following CARs comply with this condition:  - First CAR covering an audit period of 2 July 2015 to 1 July 2016; submitted on 28 September 2016  - Second CAR covering an audit period of 2 July 2016 to 1 July 2017; submitted 18 September 2017  - This CAR covering an audit period of 2 July 2017 to 1 July 2018.



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
				Letter  This CAR				
1008:M4-4		The proponent shall retain reports of all compliance assessments described in the Compliance Assessment Plan required by condition 4-1 and shall make those reports available when requested by the CEO.	Prepare and retain Annual CARs in accordance with the approved CAP.  Make CARs available to CEO of OEPA on request.	R_20160927_RPT_Strategen_Roe Highway Extension_2016 CAR  C_20160928_LTR_MRWA_EPA_Roe Highway Extension_2016 CAR Cover Letter  R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR  C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Overall.	As required by record keeping legislation.	C	This is the third CAR. All previous CARs were submitted to the OEPA by the Proponent. The CEO of the OEPA has not requested another copy of the CARs.
1008:M4-5		The proponent shall advise the CEO of any potential non-compliance within seven (7) days of that potential non-compliance being known.	Written correspondence to CEO of OEPA within 7 days of any potential non-compliance.		Overall.	Within 7 days of a potential non-compliance being known.	C	Two non-compliances were identified in this audit period, but were not confirmed until the preparation of the 2018 CAR.
1008:M4-6		The proponent shall submit to the CEO the first Compliance Assessment Report fifteen (15) months from the date of issue of this statement addressing the twelve (12) month period from the date of submission of the first Compliance Assessment Report. The Compliance Assessment Report shall:  (1) be endorsed by the proponent's Chief Executive Officer or a person delegated to sign on the Chief Executive Officer's behalf;  (2) include a statement as to whether the proponent has complied with the conditions;  (3) identify all potential non-compliances and describe corrective and preventative actions taken;  (4) be made publicly available in accordance with the approved Compliance Assessment Plan; and  (5) indicate any proposed changes to the Compliance Assessment Plan required by condition 4-1.	Submit Annual CARs addressing all requirements annually to OEPA.	R_20160927_RPT_Strategen_Roe Highway Extension_2016 CAR  C_20160928_LTR_MRWA_EPA_Roe Highway Extension_2016 CAR Cover Letter  R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR  C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter  This CAR	Overall.	By 2 October 2016 and annually thereafter.	C	This is the third CAR. All previous CARs were submitted to the OEPA by the Proponent and are available on the project website  - First CAR covering an audit period of 2 July 2015 to 1 July 2016, submitted 28 September 2016  - 2nd CAR covering an audit period of 2 July 2016 to 1 July 2017, submitted 18 September 2017  - This CAR covering an audit period of 2 July 2017 to 1 July 2018, to be submitted prior to 2 October 2018.
1008:M5-1	Public availability of data	Subject to condition 5-2, within a reasonable time period approved by the CEO of the issue of this statement and for the remainder of the life of the proposal the proponent shall make publicly available, in a manner approved by the CEO, all validated environmental data (including sampling design, sampling methodologies, empirical data and derived information products (e.g. maps)) relevant to the assessment of this proposal and implementation of this statement.	Make data relevant to the assessment of this proposal and implementation of this statement publicly available as per OEPA <i>Post Assessment Guidance for Making information publicly available</i> (OEPA 2012c).	<a href="https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx">https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx</a>  C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports	Overall.	Ongoing.	C	All validated environmental data relevant to the assessment of this proposal have been uploaded to the Main Roads website. Additional reports and assessments relevant to the implementation of this statement completed in this audit period will be made publicly available when this CAR is uploaded to the Main Roads website.
1008:M5-2		If any data referred to in condition 5-1 contains particulars of:  (1) a secret formula or process; or  (2) confidential commercially sensitive information; the proponent may submit a request for approval from the CEO to not make this data publicly available. In making such a request the proponent shall provide the CEO with an explanation and reasons why the data should not be made publicly available.	Provide the CEO with an explanation and reasons why data should not be made publicly available.	NA	Overall.	Ongoing.	NR	No request for secret information to be withheld was required in the audit period.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M6-1	Infrastructure plan	The proponent shall demonstrate that the proposal is designed and constructed consistent with the authorised extent(s) as referred to in Column 3 of Table 2 in Schedule 1, through the implementation of conditions 6-2 and 6-3.	Demonstrate that the proposal is designed and constructed consistent with the authorised extent(s) as referred to in Column 3 of Table 2 in Schedule 1, through the implementation of conditions 6-2 and 6-3.	Figure 1_Clearing Area  Refer to 1008:M1-1, 1008:M6-2 and 1008:M6-3.	Overall.	Ongoing.	C	Construction activities have been undertaken during this audit period in accordance with the requirements of Column 3 of Table 2 of Schedule 1.  Refer to 1008:M6-2 to 6-3.
1008:M6-2		Prior to commencement of construction, unless otherwise agreed by the CEO, the proponent shall prepare an Infrastructure Plan which is to be approved by the CEO. The Infrastructure Plan shall include:  (1) the alignment, dimensions and locations of the key proposal elements as referred to in Columns 1 and 2 of Table 2 in Schedule 1;  (2) the final height of the noise walls as referred to in Table 2 of Schedule 1, consistent with the Noise Management Plan (AECOM) dated 11 July 2012;  (3) an assessment of the need for noise walls or other noise mitigation measures between Bibra Drive and Progress Drive, consistent with the Western Australian Planning Commission's State Planning Policy 5.4 Road and Rail Transport Noise and Freight Considerations in Land Use Planning, to ensure that there are no adverse impacts of operational noise on the existing buildings occupied by the Cockburn Wetlands Education Centre and the Native Arc Animal Rescue Centre on Hope Road, or the dual use pathway located between Bibra Lake and the Roe Highway Extension;  (4) a framework of management and contingency actions including timeframes for their implementation, consistent with the Western Australian Planning Commission's State Planning Policy 5.4 Road and Rail Transport Noise and Freight Considerations in Land Use Planning, should it be determined that noise walls or other mitigation measures are required;  (5) areas of native vegetation to be retained within the development envelope; and (6) spatial data for 6-2(1), 6-2(2), 6-2(3) and 6-2(5), and if relevant 6-2(4).	Prepare an Infrastructure Plan which is to be approved by the CEO.	2017 CAR	Pre-construction.	Prior to commencement of construction, unless otherwise agreed by the CEO.	CLD	The Infrastructure Plan was approved by the CEO of the OEPA on 18 November 2016. There have been no revisions in this audit period.
1008:M6-3		The proponent shall provide spatial data for the constructed key elements of the proposal as set out in Columns 1 and 2 of Table 2 in Schedule 1 to the CEO, two (2) months following the completion of construction.	Provide spatial data for the constructed key elements of the proposal as set out in Columns 1 and 2 of Table 2 in Schedule 1 to the CEO.	NA	Operation.	Two (2) months following the completion of construction.	NR	Completion of construction is yet to occur. Hence action not required as yet.
1008:M6-4		The proponent may review and revise the Infrastructure Plan to the requirements of the CEO.	Review and revise the Infrastructure Plan to the requirements of the CEO.	NA	Overall.	Ongoing.	NR	No amendments to the plan were made during this audit period.
1008:M6-5		The proponent shall review and revise the Infrastructure Plan as and when directed by the CEO.	Review and revise the Infrastructure Plan as and when directed by the CEO.	NA	Overall.	Ongoing.	NR	No such direction received to date.
1008:M6-6		The proponent shall implement the approved revisions of the Infrastructure Plan required by conditions 6-4 and 6-5.	Implement the approved revisions of the Infrastructure Plan required by conditions 6-4 and 6-5.	NA	Overall.	Ongoing.	NR	No amendments to the plan were made during this audit period.
1008:M6-7		The Infrastructure Plan required by condition 6-2 shall be made publicly available in a manner approved by the CEO.	Make the Infrastructure Plan publicly available as per OEPA Post Assessment Guidance for Making information publicly	<a href="https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx">https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx</a>	Overall.	Ongoing.	C	The Infrastructure Plan is available on the Main Roads website.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
			<i>available</i> (OEPA 2012c).	C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports				
1008:M6-8		The document Peer Review – Roe Highway Extension, Report No. 11061867-01, dated 19 September 2011 by Lloyd George Acoustics shall be made publicly available prior to the commencement of construction in a manner approved by the CEO.	Make the document <i>Peer Review – Roe Highway Extension, Report No. 11061867-01, dated 19 September 2011</i> publicly available as per OEPA <i>Post Assessment Guidance for Making information publicly available</i> (OEPA 2012c).	<a href="https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx">https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx</a>  C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports	Overall.	Prior to the commencement of construction.	C	Report is available on the Main Roads website
1008:M7-1	Construction (Inland waters environmental quality, Hydrological processes and Flora and vegetation)	The proponent shall ensure that impacts from construction on wetland hydrology, water quality and flora and vegetation are minimised, through the implementation of conditions 7-2 to 7-10.	Implement conditions 7-2 to 7-10.	Refer to 1008:M1-1 and 1008:M 7-2 to 1008:M 7-10	Overall.	Ongoing.	NR	Refer to 1008:M1-1 and 1008:M 7-2 to 1008:M 7-10. Of the 9 conditions: <ul style="list-style-type: none"> <li>• 4 were found to be 'Not required at this stage'</li> <li>• 4 were found to be 'Compliant'</li> <li>• 1 was found to be 'Completed'.</li> </ul>
1008:M7-2		The proponent shall construct the Roe Swamp bridge identified in Table 2 of Schedule 1 using 'top down' construction methods.	Construct the Roe Swamp bridge identified in Table 2 of Schedule 1 using 'top down' construction methods.	Figure 1_Clearing Area	Construction.	During construction.	NR	Vegetation clearing works in the vicinity of the Roe Swamp bridge during pre-construction activities were limited to that within the proposal development envelope (PDE) prior to the suspension of the Project. There are no current plans to construct the Roe Swamp bridge.
1008:M7-3		The proponent shall not abstract groundwater during construction within 1.5 kilometres of the wetland boundaries of North Lake, Bibra Lake and Roe Swamp as identified in the most up to date Geomorphic Wetland Swan Coastal Plain dataset (custodians the Department of Parks and Wildlife).	No abstraction of groundwater during construction within 1.5 kilometres of the wetland boundaries of North Lake, Bibra Lake and Roe Swamp as identified in the most up to date Geomorphic Wetland Swan Coastal Plain dataset.	R_20170516_RPT_AECOM_Groundwater Operating Strategy_Eastern Water Supply Bore Rev 2  L_20170526_DWER_Licence to take Water - 5C  L_2016126_DWER_26D_Licence to construct or alter a well	Construction.	During construction.	C	No groundwater was abstracted within 1.5 km of the wetland boundaries, as outlined in the condition. This control is outlined in the project induction.  Approval was obtained from the Department of Water and Environmental Regulation (DWER) for the construction of two bores, both located outside the 1.5 km buffer of the wetland boundaries. Only the Eastern Bore is being used.  Figure 1 of the Operating Strategy shows the location of the groundwater abstraction bore is outside the Groundwater Extraction Prohibited Area.
1008:M7-4		The proponent shall not undertake dewatering activities prior to or during construction of the proposal.	No dewatering activities prior to or during construction of the proposal.	R_20180614_MRIA_Site Environment Plan_W81020-SEP-EN-0055_Zone 6 Works_RevB	Pre-construction and construction.	Prior to or during construction.	C	No groundwater was dewatered prior to or during construction of the proposal, as outlined in the condition. This control is on SEPs provided for works and outlined in the project induction.
1008:M7-5		The proponent shall minimise excavation activities in the development envelope in areas mapped as 'high to moderate' using the most up to date Acid Sulfate Soils risk mapping by the Department of Environment Regulation.	Minimise excavation activities in the development envelope in areas mapped as 'high to moderate' using the most up to date Acid Sulfate Soils risk mapping.	R_20180614_MRIA_Site Environment Plan_W81020-SEP-EN-0055_Zone 6 Works_RevB  R_20180202_RPT_MRIA_W81020-REP-EN-0005_ASS Factual Report_Rev0  R_20180601_Technical Note_MDC Baker Court Site Compound_ASS Investigation	Construction.	During construction.	C	Due to the change in project scope there are now only two areas that fall within the 'high to moderate' ASS risk area. ASS investigations have been undertaken in these areas and has determined that the project will not result in the disturbance of ASS. This is controlled through the restricting and minimising excavation in these areas through the implementation of controls outlined on the SEPs.
1008:M7-6		Prior to commencement of construction the proponent shall prepare a Construction Environmental Management Plan to minimise impacts from construction on inland waters environmental quality and flora and vegetation, to the requirements of the CEO, on advice of the	Prepare a Construction Environmental Management Plan (CEMP) to minimise impacts from construction on inland waters	2017 CAR	Pre-construction.	Prior to commencement of construction.	CLD	Inclusion of advice from the Department of Environment Regulation was addressed in the first CAR submitted.  The plan was approved by the CEO of the OEPA on 7

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
		Department of Environment Regulation.	environmental quality and flora and vegetation, to the requirements of the CEO, on advice of the Department of Environment Regulation.					November 2016, prior to the commencement of pre-construction activities.
1008:M7-7		The Construction Environmental Management Plan shall:  (1) include measures to control weeds and dust during construction to minimise the impacts on flora and vegetation;  (2) outline the protocols and procedures to be implemented to ensure diseases and pathogens, such as <i>Phytophthora cinnamomi</i> , are not introduced into disease free areas of the proposal area during construction;  (3) address testing of soils and groundwater to determine treatment regimes and management for acid sulfate soils and other contaminants; and  (4) address the requirements of the Department of Environment Regulation's Acid Sulfate Soil Guidelines Series Identification and Investigation of Acid Sulfate Soils and Acidic Landscapes (2009) and Treatment and Management of Soils and Water in Acid Sulfate Soil Landscapes (2011), or any approved update of these guidelines.	Prepare a CEMP and ensure it includes the requirements specified in condition 7-7.	C_20161130_LTR_OEPA_Approved CEMP Rev 2  R_201611_RPT_BR8_Roe Highway Extension_CEMP_Rev 2	Pre-construction.	Prior to commencement of construction.	C	The plan was approved by the CEO of the OEPA on 7 November 2016, prior to the commencement of pre-construction activities.
1008:M7-8		The proponent may review and revise the Construction Environmental Management Plan to the requirements of the CEO.	Review and revise the CEMP to the requirements of the CEO.	NA	Overall.	Ongoing.	NR	No amendments to the plan were made during this audit period.
1008:M7-9		The proponent shall review and revise the Construction Environmental Management Plan as and when directed by the CEO.	Review and revise the CEMP as and when directed by the CEO.	NA	Overall.	Ongoing.	NR	No such direction received to date.
1008:M7-10		The proponent shall implement the approved revisions of the Construction Environmental Management Plan required by conditions 7-8 and 7-9.	Implement the approved revisions of the CEMP required by conditions 7-8 and 7-9.	NA	Overall.	Ongoing.	NR	No amendments to the plan were made during this audit period.
1008:M7-11		The Construction Environmental Management Plan required by condition 7-6 shall be made publicly available in a manner approved by the CEO.	Make the CEMP publicly available as per OEPA <i>Post Assessment Guidance for Making information publicly available</i> (OEPA 2012c).	<a href="https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx">https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx</a>  C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports	Overall.	Ongoing.	C	Plan is available on the Main Roads website.
1008:M8-1	Drainage (Inland Waters Environmental Quality)	The proponent shall ensure that impacts to groundwater quality from the ongoing operation of the proposal are maintained relative to pre-construction conditions established in baseline surveys required by condition 8-3.	Ensure that impacts to groundwater quality from the ongoing operation of the proposal are maintained relative to pre-construction conditions established in baseline surveys required by condition 8-3.	R_2018_RPT_MR1A_Annual Drainage Monitoring and Management Report	Overall.	Prior to commencement of construction and ongoing.	C	Construction activities commenced during the audit period. The Drainage Monitoring and Management Plan was implemented prior to the commencement of construction. Monitoring results are discussed in the annual reports. There has been no impact to groundwater quality from the ongoing operation of the proposal, relative to pre-construction conditions.
1008:M8-2		Prior to commencement of construction, the proponent shall prepare a Drainage Management and Monitoring Plan to the requirements of the CEO, on advice of the Department of Water. The Drainage Management and Monitoring Plan shall:  (1) when implemented, substantiate whether condition 8-1 is being met;  (2) identify the locations, capacity and dimensions of bioretention and infiltration basins consistent with the Water Management Strategy (AECOM) dated 16 January 2013;	Prepare a Drainage Management and Monitoring Plan (DMMP) and ensure it includes the requirements specified in condition 8-2.	C_20160914_LTR_OEPA_DMMP (Rev1) Approval  R_201608_RPT_Strategen_BR8_Drainage Management and Monitoring Plan_Rev 1	Pre-construction.	Prior to commencement of construction.	CLD	Inclusion of advice from the Department of Water was addressed in the first CAR.  The plan was approved by the CEO of the OEPA on 7 November 2016, prior to the commencement of pre-construction activities.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
		<p>(3) include ongoing maintenance measures to ensure the bioretention and infiltration basins are performing effectively;</p> <p>(4) include protocols and procedures for baseline monitoring of groundwater levels and groundwater quality;</p> <p>(5) include protocols and procedures for monitoring contaminant and nutrient levels within the bioretention and infiltration basins;</p> <p>(6) include protocols, procedures and locations for monitoring contaminants and nutrient levels of groundwater upstream and downstream of the bioretention and infiltration basins;</p> <p>(7) identify criteria to trigger implementation of management measures to remediate contaminants within the bioretention and infiltration basins and ensure the basins are performing effectively;</p> <p>(8) include management measures referred to in condition 8-2(7); and</p> <p>(9) determine the timing and frequency of reporting to the CEO.</p>						
1008:M8-3		Prior to commencement of construction, the proponent shall implement the approved Drainage Management and Monitoring Plan in order to collect baseline data and continue implementation until otherwise agreed by the CEO.	Implement the approved Drainage Management and Monitoring Plan in order to collect baseline data and continue implementation until otherwise agreed by the CEO.	<p>R_20161131_RPT_AURECON_ Annual Baseline Wetland Condition Report_Rev2</p> <p>C_20161208_LTR_OEPA_Baseline Wetland Condition Survey &amp; Drainage Monitoring (Rev2) approval</p> <p>R_20180926_RPT_MRIA_Annual Drainage Monitoring Compliance Report</p>	Overall.	Prior to commencement of construction and ongoing until otherwise agreed by the CEO.	C	<p>The scope of the baseline data collection was addressed as part of the previous CAR reports.</p> <p>The Baseline Wetland Condition Survey and Drainage Monitoring was undertaken September 2015 - February 2016. OEPA subsequently approved the report in December 2016.</p> <p>The continuing implementation of the DMMP is recorded in the Annual Report included with this CAR</p>
1008:M8-4		The proponent may review and revise the Drainage Management and Monitoring Plan to the requirements of the CEO.	Review and revise the DMMP to the requirements of the CEO.	NA	Overall.	Ongoing.	NR	No amendments to the plan were made during this audit period.
1008:M8-5		The proponent shall review and revise the Drainage Management and Monitoring Plan as and when directed by the CEO.	Review and revise the DMMP as and when directed by the CEO.	NA	Overall.	Ongoing.	NR	No such direction received to date.
1008:M8-6		The proponent shall implement the approved revisions of the Drainage Management and Monitoring Plan required by conditions 8-4 and 8-5.	Implement the approved revisions of the DMMP required by conditions 8-4 and 8-5.	NA	Overall.	Ongoing.	NR	No amendments to the plan were made during this audit period.
1008:M8-7		The Drainage Management and Monitoring Plan required by condition 8-2 shall be made publicly available in a manner approved by the CEO.	Make the DMMP publicly available as per OEPA <i>Post Assessment Guidance for Making information publicly available</i> (OEPA 2012c).	<p><a href="https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx">https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx</a></p> <p>C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports</p>	Overall.	Ongoing.	C	Plan is available on the Main Roads website.
1008:M9-1	Wetlands (Inland Waters Environmental Quality)	The proponent shall ensure that impacts to wetland quality associated with the implementation of the proposal are minimised, through implementation of conditions 9-2 to 9-9.	Implement conditions 9-2 to 9-9.	Refer to 1008:M9-2 to 1008:M9-9	Overall.	Ongoing.	NC	Construction activities commenced during the audit period. The Wetland Monitoring and Management Plan was implemented prior to the commencement of constructions. Monitoring results are discussed in the annual reports. There has been no impact to wetland quality from the ongoing operation of the proposal, to date.
1008:M9-2		The proponent shall undertake a Baseline Wetland Condition Survey prior to commencement of construction to the requirements of the CEO on advice from the Department of Parks and Wildlife and the	Undertake a Baseline Wetland Condition Survey prior to commencement of construction to the requirements of the CEO	R_20161131_RPT_AURECON_ Annual Baseline Wetland Condition Report_Rev2	Pre-construction.	Prior to commencement of construction.	CLD	The scope, including necessary consultation, of the baseline data collection was addressed as part of first CAR.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
		Department of Water. The Baseline Wetland Condition Survey shall:  (1) have regard for Ramsar wetlands within the broader Beeliiar Wetlands system;  (2) cover Bibra Lake, Roe Swamp and North Lake areas adjacent to the road;  (3) identify the indicators of wetland quality including physicochemical parameters and bio-indicators; and  (4) include protocols to measure the indicators of wetland quality as identified in condition 9-2(3) including duration, timing and frequency.	on advice from the Department of Parks and Wildlife (DPaW) and the Department of Water (DoW), which meets the requirements of condition 9-2.	C_20161208_LTR_OEPA_Baseline Wetland Condition Survey & Drainage Monitoring (Rev2) approval				The Baseline Wetland Condition Survey and Drainage Monitoring was undertaken September 2015 - February 2016 Report was submitted to the OEPA in October 2016. OEPA subsequently approved the report in December 2016.
1008:M9-3		Prior to commencement of construction, the proponent shall report the results of the Baseline Wetland Condition Survey required by condition 9-2 to the CEO.	Report the results of the Baseline Wetland Condition Survey to the CEO of the OEPA.	C_20161208_LTR_OEPA_Baseline Wetland Condition Survey & Drainage Monitoring (Rev2) approval  R_20161131_RPT_AURECON_Annual Baseline Wetland Condition Report_Rev2	Pre-construction.	Prior to commencement of construction.	CLD	The Baseline Wetland Condition Survey and Drainage Monitoring was undertaken September 2015 - February 2016 Report was submitted to the OEPA in October 2016. OEPA subsequently approved the report in December 2016.
1008:M9-4		Prior to commencement of construction, the proponent shall prepare a Wetlands Monitoring and Management Plan to the requirements of the CEO, on advice from the Department of Parks and Wildlife and the Department of Water. The Wetlands Monitoring and Management Plan shall:  (1) when implemented, substantiate whether condition 9-1 is being met;  (2) include the location of monitoring and reference sites;  (3) include protocols for monitoring the indicators as identified under condition 9-2(3);  (4) determine the trigger levels for indicators of wetland quality to achieve the requirements of condition 9-1;  (5) include protocols for monitoring wetland quality against the trigger levels identified in condition 9-4(4); and  (6) identify management and contingency measures, including timeframes for their implementation, in the event that trigger levels identified under condition 9-4(4) are not met.	Prepare a Wetlands Monitoring and Management Plan (WMMP) to the requirements of the CEO, on advice from the Department of Parks and Wildlife and the Department of Water.	C_20161202_LTR_OEPA_Wetland Management and Monitoring Plan (Rev 5) Approval  R_201611_RPT_Strategen_Roe Highway Extension_Wetland Monitoring and Management Plan (Rev 5)	Pre-construction.	Prior to commencement of construction.	CLD	Inclusion of advice from the Department of Parks and Wildlife and the Department of Water was addressed in the first CAR.  The Wetlands Monitoring and Management Plan was approved by the CEO of the OEPA in December 2016.
1008:M9-5		Prior to commencement of construction, the proponent shall implement the approved Wetlands Monitoring and Management Plan, and continue implementation until otherwise agreed by the CEO.	Implement the approved WMMP.	R_20180926_RPT_MRIA_Annual Wetland Monitoring Compliance Report	Overall.	Prior to commencement of construction, and continue until otherwise agreed by the CEO.	NR	The WMMP was approved in December 2016 and continues to be implemented. The Annual Wetland Monitoring and Management Plan Report provides a summary of the monitoring results for the 2017-2018 monitoring period.
1008:M9-6		The proponent may review and revise the Wetlands Monitoring and Management Plan to the requirements of the CEO.	Review and revise the WMMP to the requirements of the CEO.	NA	Overall.	Ongoing.	NR	No revisions undertaken in this audit period.
1008:M9-7		The proponent shall review and revise the Wetlands Monitoring and Management Plan as and when directed by the CEO.	Review and revise the WMMP as and when directed by the CEO.	NA	Overall.	Ongoing.	NR	No such direction received to date.
1008:M9-8		The proponent shall implement the approved revisions of the Wetlands Monitoring and Management Plan required by conditions	Implement the approved revisions of the WMMP required	NA	Overall.	Ongoing.	NR	No revisions undertaken in this audit period.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
		9-6 and 9-7.	by conditions 9-6 and 9-7.					
1008:M9-9		<p>In the event that the monitoring indicates that the trigger criteria specified in the Wetlands Monitoring and Management Plan have been exceeded the proponent shall:</p> <p>(1) immediately implement the management and/or contingency actions specified in the Wetlands Monitoring and Management Plan and continue implementation of those actions until the trigger criteria are being met, or until the CEO has confirmed by notice in writing that it has been demonstrated that the outcome in condition 9-1 is being and will continue to be met and implementation of the management and/or contingency actions is no longer required;</p> <p>(2) investigate to determine the likely cause of the trigger criteria being exceeded and to identify any additional contingency actions required to prevent the trigger criteria being exceeded in the future; and</p> <p>(3) provide a report to the CEO within seven days of an event, referred to in condition 9-9, occurring. The report shall include:</p> <p>a. details of management and/or contingency actions implemented; and</p> <p>b. the findings of the investigation required by condition 9-9(2).</p>	Take action in response to trigger exceedances and report to the CEO of the OEPA within seven days of the event in accordance with condition 9-9.	R_20180507_AECOM_May - June 2018 SW and GW Results-Rev0	Overall.	Ongoing: <ul style="list-style-type: none"> <li>(1) immediately and then continuing until trigger criteria met, or until CEO notice</li> <li>(3) within seven days of an event.</li> </ul>	NC	Monitoring results and trigger reports have indicated that the trigger criteria have been exceeded a number of times, but following ongoing monitoring these have been shown to be within natural variations, as per baseline data. The trigger reports have addressed Points 1 and 2, however, the minor exceedances have not been considered a reportable event.
1008:M9-10		The proponent shall submit the monitoring results required by condition 9-4, referenced against the environmental quality objective specified in condition 9-1 and the trigger levels specified in condition 9-4(4), to the CEO as part of the annual compliance reporting required by condition 4.	Submit the monitoring results required by condition 9-4, referenced against the environmental quality objective specified in condition 9-1 and the trigger levels specified in condition 9-4(4), to the CEO of the OEPA.	R_20180926_RPT_MRIA_Annual Wetland Monitoring Compliance Report	Overall.	By 2 October 2016 and annually thereafter.	C	The Annual Wetland Monitoring and Management Plan Report will be submitted with the CAR
1008:M9-11		The Wetlands Monitoring and Management Plan required by condition 9-4 shall be made publicly available in a manner approved by the CEO.	Make the WMMP publicly available as per OEPA Post Assessment Guidance for Making information publicly available (OEPA 2012c).	<a href="https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx">https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx</a> C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports	Overall.	Ongoing.	C	Plan is available on the Main Roads website.
1008:M10-1	Flora and vegetation	The proponent shall ensure that the ongoing implementation of the proposal does not cause any detectable adverse effects on flora and vegetation communities outside of the 'zone of indirect impacts' as shown in Figure 2 and described in Schedule 1.	Ensure that the ongoing implementation of the proposal does not cause any detectable adverse effects on flora and vegetation communities outside of the 'zone of indirect impacts'.	Refer to 1008:M1-1 and 1008:M10-2 to 10-9	Overall.	Ongoing.	C	Refer to 1008:M1-1 and 1008:M10-2 to 10-9.
1008:M10-2		<p>The proponent shall undertake a Baseline Flora and Vegetation Condition Survey prior to commencement of construction to the requirements of the CEO on advice from the Department of Parks and Wildlife. The Baseline Flora and Vegetation Condition Survey shall:</p> <p>(1) use plot based surveys of the area outside the 'zone of indirect impacts', including immediately outside the 'zone of indirect impacts', and reference site locations;</p> <p>(2) identify the indicators of flora and vegetation health including the condition and composition of flora and vegetation communities and correlative environmental parameters including soil moisture within</p>	Undertake a Baseline Flora and Vegetation Condition Survey prior to commencement of construction to the requirements of the CEO on advice from DPaW.	2017 CAR	Pre-construction.	Prior to commencement of construction.	CLD	<p>A scope of work for the Baseline Flora and Vegetation Condition Survey was prepared and submitted to OEPA on 7 September 2015, with a briefing note demonstrating how previous OEPA comments were addressed.</p> <p>The Baseline Flora and Vegetation Condition Survey was undertaken in the Spring of 2015 was submitted to OEPA for review in December 2015. On 6 October, the CEO of the OEPA advised the report met the scope of works, and conditions 10-2 and 10-3 of the Ministerial Statement 1008.</p>

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
		the survey area; and  (3) include protocols to measure the indicators of flora and vegetation health including duration, timing and frequency.						
1008:M10-3		Prior to commencement of construction, the proponent shall report the results of the Baseline Flora and Vegetation Survey required under condition 10-2 to the CEO.	Report the results of the Baseline Flora and Vegetation Condition Survey to the CEO of the OEPA.	2017 CAR	Pre-construction.	Prior to commencement of construction.	CLD	The Baseline Flora and Vegetation Condition Survey was undertaken in the Spring of 2015 was submitted to OEPA for review in December 2015. On the 6 <sup>th</sup> of October 2016, the CEO of the OEPA advised the report met the scope of works, and conditions 10-2 and 10-3 of the Ministerial Statement 1008.
1008:M10-4		Prior to commencement of construction, the proponent shall prepare a Flora and Vegetation Monitoring and Management Plan to the requirements of the CEO, on advice from the Department of Parks and Wildlife. The Flora and Vegetation Monitoring and Management Plan shall:  (1) when implemented, substantiate whether the requirements of conditions 10-1 are being met;  (2) include the location of impact and reference vegetation condition plots;  (3) include protocols for monitoring the indicators as identified in condition 10-2(2);  (4) determine the trigger levels for the indicators of flora and vegetation condition to apply to the area outside the 'zone of indirect impacts';  (5) include protocols for monitoring flora and vegetation condition against the triggers levels identified in condition 10-4(4);  (6) identify management and contingency measures, including timeframes for their implementation, in the event that trigger levels identified under condition 10-4(4) are not being met; and  (7) include a Vegetation Rehabilitation Plan consistent with the Rehabilitation Strategy – Roe Highway Extension (AECOM) dated 11 July 2012 for areas that have been temporarily cleared within the development envelope.	Prepare a Flora and Vegetation Monitoring and Management Plan (FVMMP) and ensure it includes the requirements specified in condition 10-4.	2017 CAR	Pre-construction.	Prior to commencement of construction.	CLD	Inclusion of advice from the Department of Parks and Wildlife (DPaW) was addressed in the first CAR.  The FVMMP was approved by the CEO of the OEPA in October 2016.
1008:M10-5		Prior to commencement of construction, the proponent shall implement the approved Flora and Vegetation Monitoring and Management Plan, and continue implementation until otherwise agreed by the CEO.	Implement the approved FVMMP and continue implementation until otherwise agreed by the CEO of the OEPA.	R_20180921_RPT_MRIA_Annual Flora and Vegetation Monitoring and Management Plan Report	Overall.	Prior to commencement of construction and ongoing until otherwise agreed by the CEO.	C	The FVMMP was approved in October 2016 and continues to be implemented.  Spring vegetation monitoring was undertaken in October and November 2017. The annual report was completed and will be submitted as part of this CAR.
1008:M10-6		The proponent may review and revise the Flora and Vegetation Monitoring and Management Plan to the requirements of the CEO.	Review and revise the FVMMP to the requirements of the CEO.	NA	Overall.	Ongoing.	NR	No revisions undertaken in this audit period.
1008:M10-7		The proponent shall review and revise the Flora and Vegetation Monitoring and Management Plan as and when directed by the CEO.	Review and revise the FVMMP as and when directed by the CEO.	NA	Overall.	Ongoing.	NR	No such direction received to date.
1008:M10-8		The proponent shall implement the approved revisions of the Flora and Vegetation Monitoring and Management Plan required by conditions 10-6 and 10-7.	Implement the approved revisions of the FVMMP required by conditions 10-6 and 10-7.	NA	Overall.	Ongoing.	NR	No revisions undertaken in this audit period.



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M10-9		<p>In the event that the monitoring indicates that the trigger criteria specified in the Flora and Vegetation Monitoring and Management Plan have been exceeded the proponent shall:</p> <p>(1) immediately implement the management and/or contingency actions specified in the Flora and Vegetation Monitoring and Management Plan and continue implementation of those actions until the trigger criteria are being met, or until the CEO has confirmed by notice in writing that it has been demonstrated that the outcome in condition 10-1 is being and will continue to be met and implementation of the management and/or contingency actions is no longer required;</p> <p>(2) investigate to determine the likely cause of the trigger criteria being exceeded and to identify any additional contingency actions required to prevent the trigger criteria being exceeded in the future; and</p> <p>(3) provide a report to the CEO within seven days of an event, referred to in condition 10-9, occurring. The report shall include:</p> <p>(a) details of management and/or contingency actions implemented; And</p> <p>(b) the findings of the investigation required by condition 10-9(2).</p>	Take action in response to trigger exceedances and report to the CEO of the OEPA within seven days of the event in accordance with condition 9-9.	R_20180921_RPT_MRIA_Annual Flora and Vegetation Monitoring Compliance Report	Overall.	<p>Ongoing:</p> <ul style="list-style-type: none"> <li>(1) immediately and then continuing until trigger criteria met, or until CEO notice</li> <li>(3) within seven days of an event.</li> </ul>	NC	Upon completion of this monitoring event, it was evident that the triggers were not effective in determining vegetation condition. All quadrats exceeded one or more triggers. In particular, the density and foliage cover of native and weed species relative to reference quadrats was exceeded by all quadrats with the exception of one for each instance. Furthermore, a change of 10% in indicator species health was exceeded by all quadrats. These were not reported to the CEO within seven days and therefore this is a potential non-conformance.
1008:M10-10		The proponent shall submit the monitoring results required by condition 10-4, referenced against the environmental quality objective specified in condition 10-1 and the trigger levels specified in condition 10-4(4), to the CEO as part of the annual compliance reporting required by condition 4.	Submit the monitoring results required by condition 10-4, referenced against the environmental quality objective specified in condition 10-1 and the trigger levels specified in condition 10-4(4), to the CEO of the OEPA.	R_20180921_RPT_MRIA_Annual Flora and Vegetation Monitoring Compliance Report	Overall.	By 2 October 2016 and annually thereafter.	C	Spring vegetation monitoring was undertaken in September and October 2018. The annual report was completed and is being submitted as part of this CAR.
1008:M10-11		The Flora and Vegetation Monitoring and Management Plan required by condition 10-4 shall be made publicly available in a manner approved by the CEO.	Make the FVMMP publicly available as per OEPA <i>Post Assessment Guidance for Making information publicly available</i> (OEPA 2012c).	<p><a href="https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx">https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx</a></p> <p>C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports</p>	Overall.	Ongoing.	C	Plan is available on the Main Roads website.
1008:M11-1	Fauna	The proponent shall ensure that the proposal is implemented to facilitate movement of fauna within Beelihar Regional Park and minimise impacts as a result of fragmentation, through implementation of conditions 11-2 to 11-6.	Ensure that the proposal is implemented to facilitate movement of fauna within Beelihar Regional Park and minimise impacts as a result of fragmentation.	Refer to 1008:M11-2 to 11-6	Overall.	Ongoing.	C	<p>Refer to 1008:M11-2 to 11-6. Of the 5 conditions:</p> <ul style="list-style-type: none"> <li>1 was found to be 'Not required at this stage'</li> <li>3 were found to be 'Compliant'</li> <li>1 was found to be 'Completed'.</li> </ul>
1008:M11-2		<p>Prior to commencement of construction, unless otherwise agreed by the CEO, the proponent shall prepare a Fauna Management Plan to the requirements of the CEO on advice of the Department of Parks and Wildlife. The Fauna Management Plan shall:</p> <p>(1) provide the surveyed locations and frequency of the fauna underpasses necessary to meet the requirements of condition 11-1;</p> <p>(2) detail the size, shape and furniture within the fauna underpasses;</p> <p>(3) provide an ongoing program of inspections and maintenance to ensure the underpasses are performing effectively;</p>	<p>Prepare a FMP to the requirements of the CEO on advice of DPaW.</p> <p>Prepare an FMP and ensure it includes the requirements specified in condition 11-2.</p>	<p>C_20170209_LTR_OEPA_FMP (Rev7 Addend 2) OEPA Approval</p> <p>L_2017120_LTR_OEPA_FMP (Rev7 Addend 1) OEPA Approval</p> <p>R_20170208_RPT_Strategen_BR8_Fauna Management Plan (Rev 7 Addend 2)</p>	Pre-construction.	Prior to commencement of construction	CLD	<p>Inclusion of advice from the Department of Parks and Wildlife was addressed in the first CAR.</p> <p>The Fauna Management Plan was approved by the CEO of the OEPA in October 2016.</p>

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
		<p>(4) include a trapping and translocation program for target fauna species, which includes the southern brown bandicoot (<i>Isodon obesulus fusciventer</i>) and black cockatoos, or as otherwise agreed by the CEO;</p> <p>(5) identify objectives and monitoring protocols to measure the success of trapping and translocation program required by condition 11-2(4);</p> <p>(6) identify management and contingency measures, including timeframes for their implementation in the event that objectives of the trapping and translocation program in condition 11-2(4) are not being met;</p> <p>(7) assess the need for noise barriers or other noise mitigation measures between Bibra Drive and Progress Drive to ensure that noise does not adversely impact fauna;</p> <p>(8) should noise barriers or noise mitigation measures be required as a result of condition 11-2(7), identify management and contingency measures, including timeframes for their remediation, to be implemented in the event that noise levels are having an adverse impact on fauna;</p> <p>(9) detail the visual barriers to be installed to reduce the risk of vehicle strikes to birds between North Lake and Bibra Lake; and</p> <p>(10) determine the timing and frequency of reporting to the CEO.</p>						
1008:M11-3		Prior to commencement of construction, unless otherwise agreed by the CEO, the proponent shall implement the approved Fauna Management Plan required by condition 11-2, to the satisfaction of the CEO.	Implement the approved Fauna Management Plan required by condition 11-2.	R_20180914_RPT_MRIA_Fauna Management Plan Annual Compliance Report_Rev0	Overall.	Prior to commencement of construction, unless otherwise agreed by the CEO.	C	<p>The Fauna Management Plan The FMP was successfully implemented throughout the audit period in accordance with condition 11 of MS 1008. No non-conformances have been identified, and contingency actions have been implemented where required.</p> <p>An Annual Compliance Report for the Fauna Management Plan has been completed, demonstrating the implementation and outcomes of the Fauna Management Plan.</p>
1008:M11-4		The proponent may review and revise the Fauna Management Plan to the requirements of the CEO.	Review and revise the FMP to the requirements of the CEO.	<p>R_20170208_RPT_Strategen_BR8_Fauna Management Plan (Rev 7 Addend 2)</p> <p>C_20170209_LTR_OEPA_FMP (Rev7 Addend 2) OEPA Approval</p> <p>L_2017120_LTR_OEPA_FMP (Rev7 Addend 1) OEPA Approval</p>	Overall.	Ongoing.	C	No revisions to the FMP were made during this audit period. Previous addendums are attached to the back of the original FMP. Each of these were proposed by Main Roads and subsequently approved by the CEO of the OEPA.
1008:M11-5		The proponent shall review and revise the Fauna Management Plan as and when directed by the CEO.	Review and revise the FMP as and when directed by the CEO.	NA	Overall.	Ongoing.	NR	No such direction has been provided to date.
1008:M11-6		The proponent shall implement the approved revisions of the Fauna Management Plan required by conditions 11-4 and 11-5.	Implement the approved revisions of the FMP required by conditions 11-4 and 11-5.		Overall.	Ongoing.	C	No revisions were made during this audit period. Previous revisions have been implemented.
1008:M11-7		The proponent shall submit the outcomes of the trapping and translocation program required by conditions 11-2(4) and any management or contingency measures implemented as required by condition 11-2(6) to the CEO as part of the annual compliance reporting required by condition 4 and annually to the Department of Parks and Wildlife.	Submit the outcomes of the trapping and translocation program required by conditions 11-2(4) and any management or contingency measures implemented as required by	<p>R_20180717_RPT_MRIA_Translocation Report No.7_Clearing Noise Wall No.8_North</p> <p>C_20180718_EML_OEPA_Translocation Report_No.7_B (2)</p>	Overall.	By 2 October 2016 and annually thereafter.	C	<p>Outcomes of the translocation program have been communicated regularly with the OEPA and DPaW throughout pre-construction and construction activities.</p> <p>An Annual Compliance Report for the Fauna Management Plan has been completed, demonstrating the implementation and outcomes of the Fauna</p>

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
			condition 11-2(6) to the CEO.	L_20180221_DBCA_Licence to take Fauna_Regulation 15 - _11-001393-2  R_20180914_RPT_MR1A_Fauna Management Plan Annual Compliance Report_Rev0				Management Plan. This report will be submitted as part of this CAR.
1008:M11-8		The Fauna Management Plan required by condition 11-2 shall be made publicly available in a manner approved by the CEO.	Make the FMP publicly available as per OEPA <i>Post Assessment Guidance for Making information publicly available</i> (OEPA 2012c).	<a href="https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx">https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx</a>  C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports	Overall.	Ongoing.	C	Plan is available on the Main Roads website.
1008:M12-1	Residual impacts and risk management measures	In view of the significant residual impacts to the environment, including impacts to threatened species, priority flora, fauna habitat, migratory birds, native vegetation, wetlands, Beeliar Regional Park and Bush Forever sites, as a result of implementation of the proposal, the proponent shall undertake the following requirements relating to offsets as outlined in conditions 12-2 to 12-16.	Implement conditions 1-2 to 12-6	Refer to 1008:M12-2 to 1008:M12-16	Overall.	Ongoing.	C	Refer to 1008:M12-2 to 1008:M12-16. Of the 15 conditions:  <ul style="list-style-type: none"> <li>• 2 were found to be 'Not required at this stage'</li> <li>• 5 were found to be 'Compliant'</li> <li>• 8 were found to be 'Completed'.</li> </ul>
1008:M12-2		Prior to commencement of construction, or as otherwise agreed by the CEO, the proponent shall submit a Land Acquisition and Management Plan to the requirements of the CEO.	Submit a Land Acquisition and Management Plan (LAMP) to the requirements of the CEO of the OEPA.	C_20161130_LTR_OEPA_LAMP (Rev4) Approval  R_201611_RPT_AECOM_BR8_Land Acquisition and Management Plan (LAMP) Rev 4	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	The LAMP was approved by the CEO of the OEPA in November 2016.
1008:M12-3		The proponent shall implement the Land Acquisition and Management Plan, prior to commencement, or as otherwise agreed by the CEO, until the CEO advises implementation may cease.	Implement the LAMP.	R_201611_RPT_AECOM_BR8_Land Acquisition and Management Plan (LAMP) Rev 4  C_201612_LTR_BR8 to OEPA_Implementation of Offsets  R_20170814_Memorandum of Understanding (MoU)_Payment of Offset Management Costs	Overall.	until the CEO advises implementation may cease.	C	Implementation of the LAMP, is compliant to date. Acquisition of offset land identified in the LAMP has been fully funded and the land acquired.  A Memorandum of Understanding has been signed by DPaW on 27 June 2017 following liaison with DPaW regarding the arrangements and funding for the ongoing management of the land acquired.
1008:M12-4		The Land Acquisition and Management Plan shall:  (1) identify at least 234 hectares of land to be acquired;  (2) demonstrate that individual land parcels to be acquired are at least 100 hectares in area;  (3) identify the environmental attributes of the land to be acquired which must contain:  (a) at least 234 hectares of <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo) and 219 hectares of <i>Calyptorhynchus banksii naso</i> (Red-tailed Black Cockatoo) potential foraging habitat;  (b) at least 7.5 hectares of <i>Calyptorhynchus latirostris</i> (Carnaby's Cockatoo) and <i>Calyptorhynchus banksii naso</i> (Red-tailed Black Cockatoo) potential breeding habitat;  (c) at least 7 hectares of Conservation Category Wetland areas and an appropriate buffer;  (d) unless subject to condition 12-4(4) remnant native vegetation similar or better than the vegetation association being impacted by	Prepare a LAMP and ensure it includes the requirements specified in condition 12-4.	C_20161130_LTR_OEPA_LAMP (Rev4) Approval  R_201611_RPT_AECOM_BR8_Land Acquisition and Management Plan (LAMP) Rev 4	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	C	The LAMP was approved by the CEO of the OEPA in November 2016.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
		<p>the proposal; and</p> <p>(e) an assemblage of fauna and flora species similar to those being impacted.</p> <p>(4) detail a Rehabilitation Plan for any areas identified in 12-4(1) that require rehabilitation measures. The Rehabilitation Plan on advice of the Department of Parks and Wildlife shall:</p> <p>a. identify the areas to be rehabilitated;</p> <p>(b) outline the objectives and targets to be achieved;</p> <p>(c) outline timeframes and responsibilities for implementation;</p> <p>(d) outline the funding schedule and financial arrangements; and</p> <p>(e) outline monitoring, reporting and evaluation mechanisms.</p> <p>(5) detail the arrangements and funding for the ongoing management of the land acquired on advice from the Department of Parks and Wildlife; and</p> <p>(6) include monitoring and reporting requirements.</p>						
1008:M12-5		Prior to commencement of construction, or as otherwise agreed by the CEO, the proponent shall acquire, or fully fund the acquisition of, the land identified in the approved Land Acquisition and Management Plan for the purpose of conservation.	Acquire, or fully fund the acquisition of, the land identified in the approved LAMP for the purpose of conservation.	Refer to 1008:M12-2.	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	Refer to 1008:M12-2. The acquisition of the land identified in the LAMP was fully funded by Main Roads prior to the commencement of pre-construction (including vegetation clearing) works.
1008:M12-6		Prior to commencement of construction, or as otherwise agreed by the CEO, the proponent shall prepare a Wetland Restoration Plan to the requirements of the CEO.	Prepare a Wetland Restoration Plan (WRP) to the requirements of the CEO.	C_20151211_LTR_OEPA_Wetland Restoration Plan (Rev2) OEPA Approval  R_201511_RPT_Strategen_Wetland Restoration Plan_Rev 2	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	The WRP was approved by the CEO of the OEPA in December 2015.
1008:M12-7		<p>The Wetland Restoration Plan identified in condition 12-6, shall include details on:</p> <p>(1) activities to be undertaken including the final area to be rehabilitated and restored;</p> <p>(2) timeframes for undertaking management activities;</p> <p>(3) roles and responsibilities;</p> <p>(4) funding arrangements for implementation of the plan;</p> <p>(5) monitoring and reporting requirements; and</p> <p>(6) completion criteria.</p>	Prepare a WRP and ensure it includes the requirements specified in condition 12-7.	C_20151211_LTR_OEPA_Wetland Restoration Plan (Rev2) OEPA Approval  R_201511_RPT_Strategen_Wetland Restoration Plan_Rev 2	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	The WRP was approved by the CEO of the OEPA in December 2015.
1008:M12-8		The Wetland Restoration Plan identified in condition 12-6 shall apply to the areas delineated in Figure 3.	Ensure WRP applies to the areas delineated in Figure 3 of the Ministerial Statement.	Refer to 1008:M12-6	Overall.	Ongoing.	C	Refer to 1008:M12-6  The approved WRP applies to the areas delineated in Figure 3 of MS 1008.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M12-9		Prior to commencement of construction, or as otherwise agreed by the CEO, the proponent shall implement the Wetland Restoration Plan until the CEO advises implementation may cease.	Implement the WRP.	C_201612_LTR_BR8 to OEPA_Implementation of Offsets	Overall.	Prior to commencement of construction, or as otherwise agreed by the CEO, until the CEO advises implementation may cease.	C	Seed collection from the proposal area was conducted in early 2016, as per Table 4 of the WRP. Main Roads advised the OEPA of this action prior to the commencement of pre-construction activities.  All other actions are required during or prior to rehabilitation works, however given no actual or planned works of this kind occurred during the audit period, no further actions from the WRP were required to be implemented.
1008:M12-10		The proponent shall transfer 14.5 hectares of land as shown in Figure 4 into Beeliar Regional Park. This transfer shall commence within twelve (12) months of the completion of the proposal.	Transfer 14.5 hectares of land as shown in Figure 4 into Beeliar Regional Park.	NR	Operation.	Commencing within twelve (12) months of the completion of the proposal (for this condition taken to mean 'on completion of construction').	NR	Construction is not complete, hence the transfer is not required during this audit period.
1008:M12-11		Prior to commencement of construction, or as otherwise agreed by the CEO, the proponent shall prepare an Arum Lily Control Program for the land referred to in condition 12-10 to the requirements of the CEO.	Prepare an Arum Lily Control Program (ALCP) for the land referred to in condition 12-10 to the requirements of the CEO.	C_20161126_LTR_OEPA_Arum Lily Control Program (Rev2) OEPA Approval  R_20151217_RPT_Strategen_Arum Lily Control Program_Rev2	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	The ALCP was approved by the CEO of the OEPA in August 2016.
1008:M12-12		The Arum Lily Control Program required by condition 12-11 must include details on:  (1) an assessment and mapping of the existing Arum Lily infestation;  (2) activities to be undertaken;  (3) timeframes for undertaking management activities;  (4) roles and responsibilities;  (5) funding arrangements for implementation of the program;  (6) monitoring and reporting requirements; and  (7) completion criteria.	Prepare an ALCP and ensure it includes the requirements specified in condition 12-12.	C_20161126_LTR_OEPA_Arum Lily Control Program (Rev2) OEPA Approval  R_20151217_RPT_Strategen_Arum Lily Control Program_Rev2	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	The ALCP was approved by the CEO of the OEPA in August 2016.
1008:M12-13		The proponent shall commence implementation of the Arum Lily Control Program, within twelve (12) months of completion of the proposal, until the CEO advises implementation may cease.	Commence implementation of the Arum Lily Control Program.	NR	Operation.	Commencing within twelve (12) months of the completion of the proposal	NR	Completion of the proposal did not occur during this audit period, hence implementation was not required.
1008:M12-14		Prior to commencement of construction, or as otherwise agreed by the CEO, the proponent shall prepare a <i>Typha orientalis</i> Control Program for Thomsons Lake to the requirements of the CEO.	Prepare a <i>Typha orientalis</i> Control Program (TCP) for Thomsons Lake to the requirements of the CEO.	C_20160816_LTR_OEPA_TOCP (Rev2) OEPA Approval  R_20151217_RPT_Strategen_Typha orientalis Control Program_Rev2	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	The TCP was approved by the CEO of the OEPA in August 2016.
1008:M12-15		The <i>Typha orientalis</i> Control Program identified in condition 12-14 shall include:  (1) an assessment and mapping of the existing <i>Typha orientalis</i> infestation;  (2) activities to be undertaken;	Prepare a TCP and ensure it includes the requirements specified in condition 12-14.	C_20160816_LTR_OEPA_TOCP (Rev2) OEPA Approval  R_20151217_RPT_Strategen_Typha orientalis Control Program_Rev2	Pre-construction.	Prior to commencement of construction, or as otherwise agreed by the CEO.	CLD	The TCP was approved by the CEO of the OEPA in August 2016.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
1008:M12-16		(3) timeframes for undertaking management activities; (4) roles and responsibilities; (5) funding arrangements for implementation of the program; (6) monitoring and reporting requirements; and (7) completion criteria.	Commence implementation of the TCP.	C_201612_LTR_BR8 to OEPA_Implementation of Offsets  R_20170621_RPT_Aurecon__Roe Highway Extension_Typha orientalis 2017 Baseline Survey_Rev 0  R_20180801_LTR_Syrinx Environmental_Typha orientalis Control Program End of Work Summary Report  R_20180726_Aurecon_Roe Highway Extension_Typha orientalis 2018 Annual Survey	Overall.	Prior to commencement of construction, or as otherwise agreed by the CEO.	C	The baseline survey was undertaken in May 2017. The first annual <i>Typha orientalis</i> management actions were completed January – March 2018.

**Appendix 3: MS 1008 Schedule 1 Audit Table**

Schedule 1 of Statement 1008 audit table

Item	Element	Description	Evidence	Comments	Status
1	Clearing and disturbance	Located within the proposal development envelope as shown in Figure 1a and 1b. Includes clearing for road, drainage, and noise walls.	Figure 1_Clearing Area	Clearing of native vegetation was within the proposal development envelope (PDE). Clearing areas were surveyed in the field upon completion. Total clearing of native vegetation to date was limited to 36.93 ha, which is less than the approved 97.8 ha. Additionally, only 0.17 ha of EPP Lakes were cleared, which is less than the approved 0.95 ha.	C
2	Bridges	Over a large part of Roe Swamp and Horse Paddock Swamp / Bibra Lake. Located within the proposal development envelope as shown in Figure 1a and 1b.	I_Aerial of disturbed land_June2018	Vegetation clearing works during pre-construction activities were limited to that within the PDE prior to the suspension of the Project. There are no current plans to construct these two bridges.	C
3	Noise walls	Located within the proposal development envelope as shown in Figure 1a and 1b.	I_Aerial of disturbed land_June2018	Clearing for noise walls occurred during this audit period. All clearing has been within the PDE.	NR



## **Appendix 4: Subsidiary Plans Summary of Compliance and Audit Tables**

#### Appendix 4: Subsidiary Plans Summary of Compliance

Management Plan	Status	Comments
Arum Lily Control Plan	NR	Not required to be implemented until post construction. The Project did not complete construction during this audit period.
Compliance Assessment Plan	C	This is the third Compliance Assessment Report (CAR).
Construction Environmental Management Plan	C	No non-conformances were reported in this audit period. The Construction Environmental Management Plan has been implemented during construction works.
Drainage Management and Monitoring Plan	C	The Drainage Management and Monitoring Plan was implemented during the pre-construction and construction works.
Fauna Management Plan	C	The Fauna Management Plan, and all approved revisions, were implemented prior to the commencement of construction. An Annual Compliance Report for the Fauna Management Plan has been completed, demonstrating the implementation and outcomes of the Fauna Management Plan. This report will be submitted as part of this CAR.
Flora and Vegetation Monitoring and Management Plan	NC	<p>The focus of the FVMMP is on annual Spring vegetation monitoring outside the Project area.</p> <p>Spring vegetation monitoring was undertaken in October and November 2017. The annual report was completed and will be submitted as part of this CAR. Potential non-conformance discussed below.</p> <p>No actual or physical preparation for rehabilitation works occurred during the audit period, hence the Vegetation Rehabilitation Plan (Appendix 3 of FVMMP) was not required to be implemented during the audit period.</p>
Infrastructure Plan	C	Clearing of native vegetation did not occur within areas identified within this plan for retention.
Land Acquisition and Management Plan	C	As detailed within the plan, implementation has commenced with allocating the necessary funding for the purchase of the identified offsets.
Typha Control Plan	C	Baseline survey conducted in May 2017. The first works were conducted in January – March 2018 with follow up monitoring in May 2018.
Wetlands Monitoring and Management Plan	NC	Baseline Wetland Condition Survey and Drainage Monitoring was undertaken September 2015 – February 2016. The Plan has been implemented with one minor non-conformance identified in regards to reporting of trigger level exceedances to the CEO within seven days of the event occurring.
Wetlands Restoration Plan	C	<p>Seed collection from the proposal area was conducted in early 2016, as per Table 4 of the WRP. Main Roads advises the OEPA of this action prior to the commencement of pre-construction activities.</p> <p>All other actions are required during or prior to rehabilitation works, however given no actual or planned works of this kind occurred during the audit period, no further actions from the WRP were required to be implemented.</p>

### Audit Table – Non-Compliance

Management Plan	Requirement	Phase	Details of Non-Compliance	Evidence	Status at end of audit period
Flora and Vegetation Monitoring and Management Plan	To provide investigation reports to the CEO within seven days of a monitoring exceedance	Prior to and during construction	Spring vegetation monitoring was undertaken in October and November 2017. The annual report was completed and will be submitted as part of this CAR. Trigger exceedances are included in this report, but have not yet been communicated to the CEO.	Vegetation condition Annual monitoring Report	NC
Wetlands Monitoring and Management Plan	To provide investigation reports to the CEO within seven days of a monitoring exceedance	Prior to and during construction	Wetland Groundwater and Surface Water Monitoring was undertaken during the audit period. The Plan has been implemented with one minor non-conformance identified in regards to reporting any trigger level exceedances to the CEO within seven days of the event occurring.	Wetland Ground and Surface Water Annual Monitoring Report	NC

## Appendix 5: Evidence Summary Table

5 - Evidence Summary Table

Green shaded items attached to this Compliance Assessment Report

Document reference	Topic
Figure 1_Clearing Area	Clearing area during audit period
I_Aerial of disturbed land_June2018	Aerial imagery from June 2018, showing the clearing progress to date.
C_20161207_LTR_DotEE_EPBC 2009_5031 Notification of Commencement of Action	Notification to the DotEE of the commencement of pre-construction works
C_20180208_EML_MRIA_FDabble_JBurton_Commencement of Construction	Internal notification of the commencement of construction works
R_201509_RPT_Strategen_Roe Highway Extension_Compliance Assessment Plan_Rev 0	Compliance Assessment Plan as approved by OEPA
C_20151019_LTR_OEPA_MRWA_Compliance Assessment Plan Approved	Correspondence of approval of the Compliance Assessment Plan by the OEPA
R_20160927_RPT_Strategen_Roe Highway Extension_2016 CAR	2016 Compliance Assessment Report for audit period 2 July 2015 to 1 July 2016
C_20160928_LTR_MRWA_EPA_Roe Highway Extension_2016 CAR Cover Letter	Record of submission of 2016 CAR to OEPA
R_20170519_RPT_MRWA_Roe Highway Extension_2017 Interim CAR	Interim Compliance Assessment Report for audit period 2 July 2016 to 19 May 2017
C_20170519_LTR_MRWA_Roe Highway Extension_2017 Interim CAR Cover Letter	Record of submission of Interim CAR to OEPA
R_201709_RPT_MRWA_Roe Highway Extension_2017 CAR	2017 Compliance Assessment Report for audit period 2 July 2016 to 1 July 2017
C_20170918_RPT_MRWA_Roe Highway Extension_2017 CAR Cover Letter	Record of submission of 2017 CAR to OEPA
<a href="https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx">https://project.mainroads.wa.gov.au/roe8/environment/Pages/managementplans.aspx</a>	Main Roads website
C_20161130_LTR_OEPA_Public Availability of MS 1008 Plans and Reports	OEPA accepting MRWA proposal for public availability of MS 1008 Plans and Reports
C_20161118_EML_OEPA_Approval of Infrastructure Plan Rev3	Correspondence of approval of the Infrastructure Plan by the OEPA
R_20161114_RPT_BR8_Roe Highway Extension_Infrastructure Plan_Rev3	Infrastructure Plan as approved by the OEPA
R_20170516_RPT_AECOM_Groundwater Operating Strategy_Eastern Water Supply Bore Rev 2	Eastern Bore Groundwater Operating Strategy showing the bore location outside the wetland buffer area
L_20170526_DWER_Licence to take Water - 5C	Licence to take water from bores outside wetland buffer area
L_2016126_DWER_26D_Licence to construct or alter a well	Licence to construct the well outside the wetland buffer area
R_20180614_MRIA_Site Environment Plan_W81020-SEP-EN-0055_Zone 6 Works_RevB	Site Environmental Plan used for construction works within Zone 6
R_20180202_RPT_MRIA_W81020-REP-EN-0005_ASS Factual Report_Rev0	Acid Sulfate Soils Factual Report
R_20180601_Technical Note_MDC Baker Court Site Compound_ASS Investigation	Acid Sulfate Soils Investigation at the Baker Court Site Compound
C_20161130_LTR_OEPA_Approved CEMP Rev 2	Correspondence of approval of the Construction Environmental Plan by the OEPA
R_201611_RPT_BR8_Roe Highway Extension_CEMP_Rev 2	Construction Environmental Management Plan as approved by the OEPA
R_20180926_RPT_MRIA_Annual Drainage Monitoring and Management Plan Report	Drainage Monitoring and Management Plan Annual Report
C_20160914_LTR_OEPA_DMMP (Rev1) Approval	Correspondence of approval of the Drainage Management and Monitoring Plan

5 - Evidence Summary Table

Green shaded items attached to this Compliance Assessment Report

	amendment 1 by the OEPA
R_201608_RPT_Strategen_BR8_Drainage Management and Monitoring Plan_Rev 1	Drainage Management and Monitoring Plan as approved by the OEPA
R_20161131_RPT_AURECON_Annual Baseline Wetland Condition Report_Rev2	Baseline Wetland Condition Survey and Drainage Monitoring September 2015-February 2016
C_20161208_LTR_OEPA_Baseline Wetland Condition Survey & Drainage Monitoring (Rev2) approval	Correspondence of approval of the Baseline Wetland Condition Survey and Drainage Monitoring by the OEPA
R_20180926_RPT_MRIA_Annual Wetland Monitoring Compliance Report	Wetland Monitoring and Management Plan Annual Report
C_20161202_LTR_OEPA_Wetland Management and Monitoring Plan (Rev 5) Approval	Correspondence of approval of the Wetland Restoration Plan by the OEPA
R_201611_RPT_Strategen_Roe Highway Extension_Wetland Monitoring and Management Plan (Rev 5)	Wetland Restoration Plan as approved by the OEPA
R_20180507_AECOM_May - June 2018 SW and GW Results-Rev0	Trigger Report for the Surface and Groundwater Monitoring Results (May – June 2018)
C_20161006_LTR_OEPA_Baseline Flora and Vegetation Survey (Rev1) Approval	Correspondence from the OEPA of approval of the Baseline Flora and Vegetation Condition Survey
C_20151208_LTR_MRWA to OEPA_Baseline Flora & Veg Survey	Correspondence from Main Roads to OEPA, submitting the Baseline Flora and Vegetation Condition Survey
R_20151207_RPT_ecoscape_Baseline Flora and Vegetation Condition Survey (Rev1)	Baseline Flora and Vegetation Condition Survey as approved by the OEPA
R_201509_RPT_Strategen_SoW Baseline Flora and Veg Condition Survey (Rev2)	Scope of Works for Baseline Flora and Vegetation Condition Survey
C_20161006_LTR_OEPA_Flora & Veg Monitoring and Management Plan approval (Rev 2)	Correspondence of approval of the Fauna Management Plan by the OEPA
R_201512_RPT_Strategen_Roe Highway Extension_FVMMP (Rev2)	Flora and Vegetation Monitoring and Management Plan as approved by the OEPA
R_20180921_RPT_MRIA_Annual Flora and Vegetation Monitoring Compliance Report	Flora and Vegetation Monitoring and Management Plan Annual Report
R_20170208_RPT_Strategen_BR8_Fauna Management Plan (Rev 7 Addend 2)	Fauna Management Plan, including two addendums attached at the back of the document, as approved by the OEPA
L_2017120_LTR_OEPA_FMP (Rev7 Addend 1) OEPA Approval	Correspondence of approval of the Fauna Management Plan Addendum No. 1 by the OEPA
C_20170209_LTR_OEPA_FMP (Rev7 Addend 2) OEPA Approval	Correspondence of approval of the Fauna Management Plan Addendum No. 2 by the OEPA
R_20180914_RPT_MRIA_Fauna Management Plan Annual Compliance Report_Rev0	Annual Compliance Report required for the Fauna Management Plan
R_20180717_RPT_MRIA_Translocation Report No.7_Clearing Noise Wall No.8_North	Translocation report for one trapping program.
C_20180718_EML_OEPA_Translocation Report_No.7_B (2)	Evidence of trapping report being sent to OEPA and DBCA/
L_20180221_DBCA_Licence to take Fauna_Regulation 15 - 11-001393-2	Licence to Take Fauna as issued by DBCA
C_20161130_LTR_OEPA_LAMP (Rev4) Approval	Correspondence of approval of the Land Acquisition and Management Plan by the OEPA

5 - Evidence Summary Table

Green shaded items attached to this Compliance Assessment Report

R_201611_RPT_AECOM_BR8_Land Acquisition and Management Plan (LAMP) Rev 4	Land Acquisition and Management Plan as approved by the OEPA
C_20151211_LTR_OEPA_Wetland Restoration Plan (Rev2) OEPA Approval	Correspondence of approval of the Wetland Restoration Plan by the OEPA
R_201511_RPT_Strategen_Wetland Restoration Plan_Rev 2	Wetland Restoration Plan as approved by the OEPA
C_201612_LTR_BR8 to OEPA_Implementation of Offsets	Correspondence of the status of the implementation of offsets from Main Roads to OEPA as at December 2016
C_20161126_LTR_OEPA_Arum Lily Control Program (Rev2) OEPA Approval	Correspondence of approval of the Arum Lily Control Plan by the OEPA
R_20151217_RPT_Strategen_Arum Lily Control Program_Rev2	Arum Lily Control Program as approved by the OEPA
C_20160816_LTR_OEPA_TOCP (Rev2) OEPA Approval	Correspondence of approval of the <i>Typha orientalis</i> Control Program by the OEPA
R_20151217_RPT_Strategen_ <i>Typha orientalis</i> Control Program_Rev2	<i>Typha orientalis</i> Control Program as approved by the OEPA
R_20170621_RPT_Aurecon__Roe Highway Extension_ <i>Typha orientalis</i> 2017 Baseline Survey_Rev 0	<i>Typha orientalis</i> Baseline Survey (May 2017)
R_20180801_LTR_Syrinx Environmental_ <i>Typha orientalis</i> Control Program End of Work Summary Report	<i>Typha orientalis</i> annual end of work summary report
R_20180726_Aurecon_Roe Highway Extension_ <i>Typha orientalis</i> 2018 Annual Survey	<i>Typha orientalis</i> Annual Survey
R_20170814_Memorandum of Understanding (MoU)_Payment of Offset Management Costs	Memorandum of Understanding for the Payment of Offset Management Costs
L_20180928_LTR_MRIA_NC Investigation Rev0	Investigation into potential non-conformance
L_2018_09_28_LTR_MRIA_DWER Exceedance_Template	Template letter for reporting of any exceedance within seven days