



# **DAMPIER TO BUNBURY NATURAL GAS PIPELINE STAGE 5 EXPANSION**

**2015 Annual Compliance Report  
(Ministerial Statement 735)**

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## 1. INTRODUCTION

This report addresses the status and compliance of the Dampier to Bunbury Natural Gas Pipeline (DBNGP) Stage 5 Expansion with the Conditions in Statement 735. This report has been prepared for the purpose of meeting the requirements of Conditions 4–1 to 4–4 of the Statement, which is to submit annual compliance reports. This report covers the reporting period from 14 December 2014 to 13 December 2015.

### 1.1 Project Background

The DBNGP Stage 5 Looping Expansion project involves construction of eleven pipeline loops adjacent (and connected) to the existing DBNGP. Completion of the expansion will result ultimately in completion of duplication of the pipeline from Dampier to Wagerup. The key characteristics of the proposal are presented in Table 1. The Stage 5 Looping Expansion project, which continues from Stage 4 (completed in 2006), involves a total length of approximately 1270 km of pipeline.

The proposal for the Stage 5 Looping Expansion was approved for implementation under Part IV of the *Environmental Protection Act 1986* (EP Act) with issue of Statement No. 735 (the Statement) on 13 December 2006. A change to the proposal under s 45C of the EP Act to allow for construction within additional easements granted for the purposes of the DBNGP was approved on 5 August 2011. DBNGP (WA) Nominees Pty Limited, trading as Dampier Bunbury Pipeline (DBP), is the Proponent of the DBNGP Stage 5 Expansion project.

The Statement requires submission of an annual compliance report to address the status and compliance of the DBNGP Stage 5 Looping Expansion project with Statement conditions and key actions in accordance with the annual compliance reporting requirements of conditions 4–1 to 4–4 of the Statement.

Implementation of the Stage 5 project commenced in February 2007, and was undertaken in three stages. The first stage (Stage 5A) was completed in March 2008. Stage 5B commenced in January 2009 and was effectively completed in early 2010, with the exception of the crossing of the Fortescue River. The Fortescue River Crossing section was undertaken over the period August 2011 to December 2011 inclusive. WestNet Energy (previously Alinta Asset Management) was contracted by DBP to provide project management for Stages 5A and 5B of the DBNGP Looping Expansion Project. DBP undertook project management of the Fortescue River crossing.

### 1.2 The Proposal

Table 1: Presents the key characteristics of the proposal as presented in the environmental impact assessment report (Strategen 2006).

DBNGP (WA) Nominees Pty Limited trading as Dampier Bunbury Pipeline (DBP) remains the Proponent of the DBNGP Stage 5 Looping Expansion project and there has been no change in responsibility for proponentcy.

**Table 1: Key characteristics of the Stage 5 Looping Expansion**

Aspect	Proposal			
Location	There will be eleven loops. The first loop starts at about 2 km south of Dampier. The last loop is south of compressor station 10, which starts at about 17 km southeast of Rockingham, and ends at Wagerup West (Main Line Valve 144).			
Proposed action	Construct eleven pipeline looping lengths of 660 mm in diameter, buried adjacent to the existing DBNGP. These pipeline lengths will be looped to the existing DBNGP to increase flow of natural gas.			
Total length of looping	Approximately 1270 km			
Characteristics of each loop	No.	Approx. length	Biogeographical region	Shires
	0	137.2 km	Pilbara	Shire of Roebourne
	1	123.3 km	Pilbara	Shire of Ashburton
	2	104.9 km	Carnarvon, Gascoyne	Shire of Ashburton
	3	113.0 km	Carnarvon, Gascoyne	Shire of Carnarvon
	4	112.9 km	Carnarvon	Shire of Carnarvon, Shire of Upper Gascoyne

	5	119.0 km	Carnarvon, Yalgoo	Shire of Shark Bay
	6	131.0 km	Yalgoo, Geraldton Sandplains	Shire of Northampton, Shire of Chapman Valley, Shire of Mullewa
	7	142.4 km	Geraldton Sandplains	Shire of Mullewa, Shire of Irwin, Shire of Carnamah
	8	96.8 km	Geraldton Sandplains, Swan Coastal Plain	Shire of Coorow, Shire of Dandaragan, Shire of Gingin
	9	127.7 km	Swan Coastal Plain	Shire of Gingin, Shire of Chittering, City of Swan, City of Belmont, Shire of Kalamunda, City of Gosnells, City of Armadale, City of Cockburn, Town of Kwinana
	10	61.5 km	Swan Coastal Plain	Shire of Serpentine–Jarrahdale, Shire of Murray, Shire of Waroona
Proposed tenure	The completed pipeline will be wholly within the existing DBNGP easement, which is gazetted under the Dampier to Bunbury Pipeline Act 1997 and the easement identified as Easement A as shown on the deposited plan numbered DP67493.			
DBNGP easement width	The existing DBNGP corridor is 30 m wide. The area to be cleared and graded in the northern loops (Dampier to Muchea) will be approximately 30 m and south of Muchea; the area cleared will be 20 to 30 m. In environmentally sensitive areas, working widths will be 20 m. Additional easements may vary in width and all clearing will be subject to the conditions of the Ministerial Statement.			
Activities outside the DBNGP easement	Turnarounds, Campsites, Turkey nests*, Laydown areas, Water supply sources, Access roads, Works associated with watercourse and dune crossings			
Temporary area of disturbance within DBNGP easement	Approximately 3175 ha, all to be rehabilitated in consultation with landowners.			
Estimated area of vegetation clearing within DBNGP easement	Approximately 1264 ha, all to be rehabilitated in consultation with landowners.			
Temporary area of disturbance outside the DBNGP easement	Approximately 139 ha, all to be rehabilitated in consultation with landowners.			
Construction duration	The Stage 5 Expansion will be constructed in stages, with Stage 5A commencing in February 2007. The subsequent stages will be constructed to match the increasing demand in fuel gas, and full looping is expected to be substantially completed within five years of approval.			
Construction workforce	Up to 900 people			

\* Turkey nests are artificially created water storages constructed by hollowing out an area of land and using the fill to build up its sides.

### 1.3 Environmental approval to implement the project

DBP was granted environmental approval for the DBNGP Stage 5 Looping Expansion proposal under Part IV of the EP Act. The Minister for Environment approved the proposal on 13 December 2006 with the release of Statement No. 735, which includes environmental conditions under which the proposal is to be implemented. Of the 72 environmental conditions, the majority of conditions relate to the preparation and implementation of management plans addressing areas of potential environmental risk identified during the assessment.

The required management plans were prepared and consolidated as management protocols into a Construction Environmental Management Plan (CEMP) (DBP 2011). The CEMP addressed a number of environmental factors additional to those required under the Statement, in order to meet the requirements of all environmental regulators.

## 2. CURRENT STATUS

The DBNGP Stage 5 Looping Expansion is being constructed in stages, the first of which was Stage 5A, which commenced in February 2007 and was completed in March 2008. Stage 5B was commenced in January 2009 and completed in November 2011.

The statistics related to implementation of the proposal as at 13 December 2013 is summarised in

Table 2. Of the total 1270 km of the Stage 5 approved proposal, 1011 km have now been constructed.

**Table 2: Progress of DBNGP Stage 5 Looping Expansion Project**

Loop	Stage 5A		Stage 5B	
	Loop Lengths (km)*	Status of Loops	Loop Lengths (km)*	Status of Loops
Loop 0	0.0	No construction in Loop 0 undertaken in Stage 5A	114.9	Complete
Loop 1	74.0	Complete	32.9	Complete
Loop 2	57.8	Complete	31.9	Complete
Loop 3	60.3	Complete	34.6	Complete
Loop 4	61.9	Complete	33.6	Complete
Loop 5	63.7	Complete	34.0	Complete
Loop 6	70.5	Complete	35.8	Complete
Loop 7	60.4	Complete	44.0	Complete
Loop 8	55.3	Complete	21.8	Complete
Loop 9	52.0	Complete	23.4	Complete
Loop 10	15.1	Complete	33.3	Complete
TOTAL	571.1		440.2	

Completion of Stage 5A was considered to be evidence of substantial commencement of the project as required under Condition 3–2, as reported in the 2007 compliance report (DBP 2008).

As outlined in the 2007 compliance report (DBP 2008), the above description satisfies the requirements of condition 4–3(8).

This report has been prepared to demonstrate compliance with the Statement conditions for the period from 14 December 2015 to 13 December 2015 inclusive. The report comprises the findings of an audit of compliance with:

- conditions and procedures contained within the Statement as required by Condition 4–3(2) of the Statement
- key actions contained within management plans or programs as required by Conditions 4–3(4) of the Statement.

As Stage 5A of the proposal was completed in March 2008 and Stage 5B was completed in November 2011, no construction activities were conducted during the reporting period 14 December 2014 to 13 December 2015.

## 3. AUDIT METHODOLOGY

### 3.1 Purpose and scope

The purpose of this document is to enable compliance with Conditions 4–1 to 4–4 of Statement No. 735:

*4–1 The proponent shall submit to the CEO environmental compliance reports annually reporting on the previous twelve-month period, unless required by the CEO to report more frequently.*

*Note: Annual reporting shall continue until such time as the Minister for the Environment determines on advice from the Environmental Protection Authority that the proponent has fulfilled its responsibilities in relation to the conditions within this Statement.*

*4–2 The environmental compliance reports shall address each element of an audit program approved by the CEO and shall be prepared and submitted in a format acceptable to the CEO.*

*4–3 The environmental compliance reports shall:*

- *be endorsed by signature of the proponent's Chairman or a person, approved in writing by the Chairman, delegated to sign on behalf of the proponent's Chairman;*
- *state whether the proponent has complied with each condition and procedure contained in this statement;*
- *provide verifiable evidence of compliance with each condition and procedure contained in this statement;*
- *state whether the proponent has complied with each key action contained in any environmental management plan or program required by this statement;*
- *provide verifiable evidence of conformance with each key action contained in any environmental management plan or program required by this statement;*
- *identify all non-compliances and non-conformances and describe the corrective and preventative actions taken in relation to each non-compliance or non-conformance;*
- *provide an assessment of the effectiveness of all corrective and preventative actions taken; and*
- *describe the state of implementation of the proposal.*

*4–4 The proponent shall make the environmental compliance reports required by condition 4–1 publicly available in a manner approved by the CEO.*

The report has been prepared by DBP for submission to the Chief Executive Officer (CEO) of the Office of the Environmental Protection Authority (OEPA) (formerly, for compliance reporting, the Department of Environment and Conservation [DEC]) to meet the requirements of condition 4–1 of Statement No. 735 for submission of an annual compliance report.

Key Actions of a number of management plans were adopted by DBP for inclusion in annual compliance reports on Stage 5A, which were accepted by the DEC (now OEPA) and have been used for all subsequent compliance reporting. However, the majority of these Key Actions have not been assessed in this audit as no construction has occurred during this audit period.

It is also noted that where a previous Compliance Report has indicated a condition was 'Completed' the evidence associated with the previous audit determination has been accepted without verification.

### 3.2 Methodology

The audit was conducted in February 2016.

The required reporting includes "whether the proponent has complied with each condition and procedure contained within the statement" and "conformed with each key action" (conditions 4–3[2] and 4–3[4] respectively). This section describes how compliance with each condition and conformance with key actions has been audited and reported.

Where evidence has been presented in previous compliance reports, it has not been included with this report to minimise the bulk of reporting. Audit results relating to the Statement conditions and key actions are summarised in Section 4 and detailed audit results presented in Section 5.

Where potential non-compliances have been identified, the corrective and preventative actions taken are described and an assessment of their effectiveness as required by conditions 4–3(6) and 4–3(7) is provided in Section 4.3.

#### *Compliance with Statement No. 735*

An audit of compliance with the conditions and procedures of the Statement was conducted and a compliance status rating was applied in accordance with terminology described in Section 3.3. The full audit is presented in Section 5.1.

#### *Conformance with key actions*

Condition 4–3(4) requires DBP to report on conformance with each key action contained within any management plan or program required by Statement No. 735. The conformance status rating was also applied in accordance with the Section 3.3 terminology.

Environmental management is primarily achieved through implementation of the CEMP, which contains a number of management protocols<sup>1</sup> that directly relate to all the construction requirements of the Statement conditions. These protocols include a range of additional specific management actions reflecting good management. A number of the management actions within the CEMP directly reflect specific prescriptive conditions within the Statement.

Key actions from the CEMP have been identified as being:

- those management actions in the CEMP protocols implemented to manage a condition of the Statement
- those management actions in CEMP protocols that reflect a key intent of a condition of the Statement.

Using the above definition, key actions have been derived and audited. These key actions have been adopted for all compliance reporting to date.

#### *Corrective and preventative actions*

Statement conditions 4–3(6) and 4–3(7) require descriptions of corrective and preventative actions taken in relation to each non-compliance or non-conformance, together with assessments of their effectiveness. These are presented in Section 4.3.

#### *Evidence verification*

Evidence to substantiate compliance with conditions contained within Statement No. 735 and key actions contained within the management plans or programs as required by conditions 4–3(3) and 4–3(5) has been sourced from previous compliance reports and other documentation.

### **3.3 Audit terminology**

The 'Status' field of the audit table (refer to Section 5) describes the implementation of the action and compliance with the condition, procedure or commitment. Although the CEO of the OEPA makes the final determination of compliance, it is necessary to update this field each reporting period, as the project progresses. The 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 (Table 3).

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<sup>1</sup> The management protocols in the CEMP include all the environmental management plans required under Statement No. 735 to be prepared for implementation of the proposal.

**Table 3: Action implementation status (Source: adapted from OEPA (2012b))**

Status	Description
Compliant (Conformant)	Implementation of the proposal has been carried out in accordance with requirements of the audit. (Conformant – as above in relation to actions of management plans / programmes)
Completed	A requirement with a finite period of application has been satisfactorily completed.
Not required at this stage	The requirements of the audit element were not triggered during the reporting period.
Potentially non-compliant (Potentially non-conformant)	Possible or likely failure to meet the requirements of the audit element. (Potentially non-conformant – as above in relation to actions of management plans / programmes)
In process	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.

## 4. AUDIT RESULTS

This report has been prepared to address the status and compliance of the proposal with the conditions in the Statement in accordance with the annual compliance reporting requirements of conditions 4–1 to 4–4 of the Statement. The report considers the extent of compliance with each of the 72 conditions, and the extent of conformance with the 42 actions within approved management plans required under various conditions and determined to be Key Actions.

### 4.1 Compliance with Statement No 735 conditions

The detailed results of the audit of Statement 735 are presented in Section 5.1 (Table 6). Condition 1-1 of Statement 735 requires implementation of the proposal as documented in Schedule 1 of the Statement. As no construction occurred during this audit period and a previous audit (Strategen 2014) determined that there were no potential non-compliances with Schedule 1, this has not been audited during this audit period.

#### *Rehabilitation*

On 18<sup>th</sup> December 2014, DBP issued Revision 5 to the Rehabilitation Management Plan (Rev 5) developed in consultation with the Department of Parks and Wildlife (DPaW) and Department of Mines and Petroleum (DMP) to improve the relevance of the completion criteria. On 4<sup>th</sup> February 2015, EPA endorsed this revision. Rehabilitation results for the 2014 calendar year reporting period (subsequently submitted on 13<sup>th</sup> March 2015) reported rehabilitation success against the revised criteria. Results identified that a total of 10 either met or were likely to meet the completion criteria and thus recommended cessation of further monitoring. The remaining 6 sites were all monitored in the 2015 reporting period (Mattiske 2015, Appendix B) generating the following results:

**Stage 5A:** *Stage 5A Loops 1 and 5 High Conservation Value (HCV) rehabilitation areas satisfied all minimum requirements outlined in the completion criteria and are therefore recommended for closure. Stage 5A Loop 8 General Right of Way (GRoW) areas satisfied three out of the four minimum requirements outlined in the completion criteria. Improvements in native perennial species richness and plant foliage cover were recorded, however native perennial plant density in rehabilitation areas only achieved 32% of that recorded in the corresponding controls. Further monitoring of Loop 8 GRoW areas may be required to ensure that minimum compliance is achieved.*

**Stage 5B:** *Stage 5B Loops 8 and 10 GRoW rehabilitation areas satisfied all minimum requirements outlined in the completion criteria and are therefore recommended for closure. Despite improvements between 2014 and 2015, Loop 9 HCV rehabilitation areas failed to achieve minimum requirements outlined in the completion criteria for native perennial species richness, percentage native perennial plant foliage cover and percentage weed foliage cover. Further monitoring of Loop 9 HCV areas may be required to ensure that minimum compliance is achieved.*

The Rehabilitation Monitoring Report (Mattiske 2015) identifies just two sites for continued monitoring to ensure completion of the minimum criteria. These will continue to be monitored in the next reporting period.

Results identified that all remaining sites could be closed as they met the criteria, with just two exceptions. These include Loop 8 under Stage 5A and Loop 9 under Stage 5B. Loop 8 (5A) site failed to meet requirements for plant species diversity with Loop 9 (5B) failing to meet minimum targets for species richness and plant foliage cover.

The results and recommendations presented in these reports are summarised within **Table 4** and **Table 5** below. All relevant rehabilitation monitoring reports have been provided as Appendix B.

**Table 4: Summary of Stage 5A Rehabilitation Monitoring Results and Recommendations**

Loop	GRoW/HCV	Species Richness	Plant Species Density	Plant Foliage Cover	Weed Foliage Cover	Recommendation
1	HCV	Pass	Pass	Pass	Pass	Cease monitoring (criteria met)
5	HCV	Pass	Pass	Pass	Pass	Cease monitoring (criteria met)
8	GRoW	Pass	Fail	Pass	Pass	Further monitoring to establish a positive trajectory

**Table 5: Summary of Stage 5B Rehabilitation Monitoring Results and Recommendations**

Loop	GRoW/HCV	Species Richness	Plant Species Density	Plant Foliage Cover	Weed Foliage Cover	Recommendation
8	GRoW	Pass	Pass	Pass	Pass	Cease monitoring (criteria met)
9	HCV	Fail	Pass	Fail	Pass	Further monitoring to establish a positive trajectory
10	GRoW	Pass	Pass	Pass	Pass	Cease monitoring (criteria met)

**4.2 Conformance with key actions**

Condition 4–3(4) of Statement No. 735 requires the proponent to demonstrate compliance with key actions contained in any environmental management plan or program required by the Statement. As the key actions all relate to construction activities and no such activities were undertaken during the report period, this condition is considered to be Not Applicable (N/A) to this report.

**4.3 Corrective actions**

No corrective actions have been undertaken as there were no non-compliances identified this audit period.

## 5. AUDIT TABLES

### 5.1 Statement No. 735 Summary Audit Tables

Table 6 has been produced to meet condition 4–3(2) of Statement No. 735.

Where conditions have been previously reported as completed they have been 'greyed out' in the compliance audit report.

Table 6: Results of audit of Statement No. 735

Audit code	Subject	Action	How	Objective	Phase/Timing	Criteria	Evidence	Finding	Status
735:M1.1	Implementation	Implement the proposal as documented and described in schedule 1 of Statement 735 subject to the conditions and procedures of this statement.	Establish and implement an auditing compliance reporting system.	To avoid unforeseen or unassessed impacts	Overall	-	R_004_2011 DBNGP Stage 5 looping expansion project AECR_01072012 R_001_DBNGP Stage 5 Looping Expansion Project 2013 Annual Environmental Compliance Report (Statement No. 735)_01032014 DBNGP Stage 5 Looping Expansion Project 2015 Annual Compliance Report (Statement No. 735)	Refer to the 2011 Annual Environmental Compliance Report (AECR) (Strategen 2012a) with respect to implementation as described in Schedule 1 of Statement No. 735. No additional construction has occurred since the audit period reported in the 2013 AECR. The implementation of the project is now in operational phase rather than construction.	Compliant
735:M2.1	Nominated proponent	Implement the proposal until such time as the Minister for the Environment nominates another person as the proponent.	Establish and implement auditing compliance reporting system.	To ensure responsibility rests with the nominated proponent	Overall	Has Minister nominated another person as proponent?	DBNGP Stage 5 Looping Expansion Project 2015 Annual Compliance Report (Statement No. 735)	DBP remains the proponent and has an annual audit compliance reporting system in place.	Compliant
735:M2.2	Proponent contact details	Notify the Chief Executive Officer of the DEC (CEO) of any change of the contact name and address for the serving of a notice or other correspondence within 30 days of such change.	Written notification.	To enable the DEC to maintain contact with the proponent	Overall	Has the contact name and address for the serving of a notice or other correspondence for the project changed since approval; if so, was the Chief Executive Officer of the DEC (CEO) informed within 30 days of such change.	Website indicates that contact name and address have not changed since Loop 10 compliance audit in 2008.	The contact address for DBP has not changed.	Compliant
735:M3.1	Authorisation limit	Substantially commence the proposal before 13 December 2011 to avoid lapse of authorisation.	Written notification.	To keep DEC informed of project status	Construction	Substantial construction commenced	R_003_DBNGP Stage 5 Looping Expansion Project 2007 Annual Environmental Compliance Report_01052008	Condition satisfied as reported in the 2007 annual compliance report (DBP 2008).	Completed
735:M3.2	Commencement	Provide the CEO with written evidence which demonstrates that the proposal has substantially commenced on or before the 13 December 2011.	Written notification.	To keep DEC informed of project status	Construction	Substantial construction commenced	R_003_DBNGP Stage 5 Looping Expansion Project 2007 Annual Environmental Compliance Report_01052008	Condition satisfied as reported in the 2007 annual compliance report (DBP 2008).	Completed
735:M4.1	Compliance reporting - submitting	Submit to the CEO environmental compliance reports reporting on the previous twelve-month period. (Annual Environmental Compliance Report [AECR])	Reports shall address that required by condition 4-2 and condition 4-3.	To provide evidence that the proposal is being implemented and conditions are being met	Overall Annually unless required by the CEO to report more frequently. Annual reporting shall continue until such time as the Minister for the Environment determines on advice from the EPA that the proponent has fulfilled its responsibilities in relation to the conditions within this statement.	2012 AECR covering period 14 Dec 2011 to 13 Dec 2012  2013 AECR covering period 14 Dec 2012 to 13 Dec 2013 (this report)	R_001_DBNGP Stage 5 Looping Expansion Project 2013 Annual Environmental Compliance Report (Statement No. 735)_01032014	A signed copy of the 2014 ACR (DBNGP 2014) dated March 2015 was provided. The report covered the period from 14 Dec 2013 to 13 Dec 2014. This ACR is considered relevant to the auditing period covered by this audit report. This audit report is intended to satisfy the requirements for reporting up until 13 December 2015.	Compliant
735:M4.2	Audit Program	Prepare an audit program.	Develop an audit table listing implementation conditions and detail how these will be met. Develop criteria and standards that will be used to measure compliance.	To develop a system of monitoring implementation and environmental performance of the proposal	Design	Audit Table prepared to the satisfaction of the CEO, DEC.	R_003_DBNGP Stage 5 Looping Expansion Project 2007 Annual Environmental Compliance Report_01052008	An Audit Program was prepared and signed-off by DEC. Relevant correspondence was sighted in a previous Compliance Audit.	Completed

Audit code	Subject	Action	How	Objective	Phase/Timing	Criteria	Evidence	Finding	Status
735:M4.3	Annual environmental compliance reporting - preparation	<p>The environmental compliance reports shall:</p> <ol style="list-style-type: none"> <li>1. Be endorsed by signature of the proponent's Chairman or a person, approved in writing by the Chairman, delegated to sign on behalf of the proponent's Chairman.</li> <li>2. State whether the proponent has complied with each condition and procedure contained in Statement 735.</li> <li>3. Provide verifiable evidence of compliance with each condition and procedure contained in Statement 735.</li> <li>4. State compliance with each key action contained in any environmental management plan or program required by Statement 735.</li> <li>5. Provide verifiable evidence of conformance with each key action contained in any environmental management plan or program required by Statement 735.</li> <li>6. Identify all non-compliances and non-conformances and describe the corrective and preventative actions taken in relation to each non-compliance or non-conformance.</li> <li>7. Provide an assessment of the effectiveness of all corrective and preventative actions taken.</li> <li>8. Describe the state of implementation of the proposal.</li> </ol>	Reports presented to satisfy this condition with respect to the content.	To provide evidence that the proposal is being implemented and conditions are being met	Overall	2013 AECR covering period 14 Dec 2012 to 13 Dec 2013	R_001_DBNGP Stage 5 Looping Expansion Project 2013 Annual Environmental Compliance Report (Statement No. 735)_01032014	<p>A signed copy of the 2014 ACR (DBNGP 2014) dated March 2015 was provided. The report covered the period from 14 Dec 2013 to 13 Dec 2014.</p> <p>This ACR is considered relevant to the auditing period covered by this audit report.</p> <p>This audit report is intended to satisfy the requirements for reporting up until 13 December 2015.</p>	Compliant
735:M4.4	Annual environmental compliance reporting – public availability	Make the environmental compliance reports (AECRs) publicly available.	<p>Carry out the following:</p> <ol style="list-style-type: none"> <li>1. Provide copies of the documentation to the DEC library</li> <li>2. Post the document on the proponent's website.</li> </ol>	To ensure that the public is kept informed of the proposal and compliance with conditions	Overall Annually	As approved by the CEO.	<p>R_001_DBNGP Stage 5 Looping Expansion Project 2014 Annual Environmental Compliance Report (Statement No. 735)</p> <p><a href="http://www.dbp.net.au/hse/environment/">http://www.dbp.net.au/hse/environment/</a></p>	<p>A signed copy of the 2014 ACR (DBNGP 2014) dated March 2015 was provided. The report covered the period from 14 Dec 2013 to 13 Dec 2014.</p> <p>ACR's for the last several years are provided on the company's website to enable public availability.</p>	Compliant

Audit code	Subject	Action	How	Objective	Phase/Timing	Criteria	Evidence	Finding	Status
735:M5.1	Performance review – prepare and submit	Submit a Performance Review report every five years after the start of construction to the EPA, which addresses: 1. The major environmental issues associated with implementing the project; the environmental objectives for those issues; the methodologies used to achieve these; and the key indicators of environmental performance measured against those objectives. 2. The level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best available technology where practicable. 3. Significant improvements gained in environmental management, including the use of external peer reviews. 4. Stakeholder and community consultation about environmental performance and the outcomes of that consultation, including a report of any on-going concerns being expressed. 5. The proposed environmental objectives over the next five years, including improvements in technology and management processes.	The Performance Review report will address the required actions.	To provide evidence of environmental performance and to identify aspects that may require environmental improvements	Overall Every 5 years after the start of construction	-	N/A	The 2007 AECR noted commencement of construction in February 2007. DBNGP Stage 5 Looping Expansion Project Five Year Performance Review (2007-2012) (Strategen 2012b) was provided to the OEPA on 3 August 2012 (previous audit period)	Not required at this stage
735:M5.2	Performance review – public availability	Make the Performance Review reports publicly available.	Carry out the following: 1. Provide copies of the documentation to the DEC library 2. Post the document on the proponent's website	To ensure that the public is kept informed of the environmental performance of the proponent	Overall Every 5 years after the start of construction	-	N/A	DBNGP Stage 5 Looping Expansion Project Five Year Performance Review (2007-2012) (Strategen 2012b) was provided to the OEPA on 3 August 2012 (previous audit period).	Compliant
735:M6.1	Compliance audit - submit	Submit a written compliance audit report to the CEO within 30 days of the conclusion of the construction of each loop section.	The report shall address that outlined in condition 6-2, 6-3 and 6-4.	To provide evidence that the conditions are being met within each loop section	Overall Within 30 days of construction completion in each loop section	Completion of each loop section is considered to be at the time of hand over of the Loop from DBP Construction to Operations.	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M6.2	Compliance report - prepare	The compliance audit report shall outline identified non-compliances against the conditions of Statement 735.	-	To provide evidence that the conditions are being met within each loop section	Overall	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M6.3	Compliance report - prepare	The report shall be endorsed by signature of the proponent's Chairperson or a person approved in writing by the Chairperson, delegated to sign on behalf of the proponent's Chairperson.	-	To provide evidence that the conditions are being met within each loop section	Overall Within 30 days of construction completion in each loop section	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M6.4	Compliance report - prepare	The report shall include the date, time and location of the non-compliances, the reason for the non-compliances, actions taken to remedy non-compliances and details of management measures implemented to reduce the risk of future non-compliances	Establish and implement auditing compliance reporting system.	To provide evidence that the conditions are being met within each loop section	Overall Within 30 days of construction completion in each loop section	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage

Audit code	Subject	Action	How	Objective	Phase/Timing	Criteria	Evidence	Finding	Status
735:M7.1	Spring flora surveys	Submit a report to the CEO, which details the results of the spring flora, surveys undertaken in 2006.	This report shall: 1. Record the location of any Declared Rare Flora, Priority Flora and other species of conservation significance. 2. Identify any Threatened Ecological Communities and other environmentally sensitive areas. 3. Describe the habitat in which specially protected or conservation-significant flora species were found, and the extent of the contiguous area of the same habitat in the local area. 4. Specify the degree of impact of the proposed works on specially protected or conservation-significant flora species, its identified contiguous habitat or Threatened Ecological Communities and other environmentally sensitive areas.	To determine if conservation significant species occur within the proposal area and the potential impact on them	Design Prior to the commencement of vegetation clearing	Survey shall be conducted in accordance with Guidance Statement No. 51 (EPA 2004)	R_003_DBNGP Stage 5 Looping Expansion Project 2007 Annual Environmental Compliance Report_01052008	Condition satisfied as reported in the 2007 annual compliance report (DBP 2008).	Completed
735:M7.2	Flora and Vegetation Management Plan - preparation	Prepare a Flora and Vegetation Management Plan, in consultation with the DEC.	The Plan shall: • Identify the proposed management strategy for the protection of Declared Rare Flora, Priority Flora, Threatened Ecological Communities, other conservation significant species and other environmentally sensitive areas identified. • Include a post-activity monitoring plan for specially protected or conservation-significant flora species.	To minimise and manage disturbance of remnant vegetation or conservation significant flora	Design Prior to the commencement of vegetation clearing	-	R_003_DBNGP Stage 5 Looping Expansion Project 2007 Annual Environmental Compliance Report_01052008	Condition satisfied as reported in the 2007 annual compliance report (DBP 2008).	Completed
735:M7.3	Flora and Vegetation Management Plan - implementation	Implement the Flora and Vegetation Management Plan.	-	To ensure appropriate management actions are taken to minimise any impacts on flora and vegetation	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Compliant
735:M7.4	Flora and Vegetation Management Plan – public availability	Make the Flora and Vegetation Management Plan publicly available.	The revised requirement for making the Flora and Vegetation Management plan publicly available is as follows: Carry out the following: 1) Provide a hard copy to the DEC library and 2) Make the Management Plan available on the DBNGP website	To ensure the public is kept informed	Overall	-	R_002_DBNGP Stage 5 Expansion Looping Project Construction Environmental Management Plan_17082011 DBP website copy at <a href="http://www.dbp.net.au/wp-content/uploads/2015/01/20110817-E-PLN-015-2-Stage-5B-CEMP.pdf">http://www.dbp.net.au/wp-content/uploads/2015/01/20110817-E-PLN-015-2-Stage-5B-CEMP.pdf</a>	A flora and vegetation management protocol is contained within the approved CEMP (DBP 2011). The CEMP is available on the DBP website. No revision was required during this audit period.	Compliant
735:M8.1	Vegetation disturbance – clear delineation	Clearly delineate on the ground the boundaries of the pipeline easement and the area of disturbance outside the easement.	Implement the Flora and Vegetation Management Plan and Conservation Area Management Plan.	To minimise clearing of vegetation	Design Prior to ground-disturbing activities	As established in the Flora and Vegetation and Conservation Area Management Plans.	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage

Audit code	Subject	Action	How	Objective	Phase/Timing	Criteria	Evidence	Finding	Status
735:M8.2	Vegetation disturbance – exceedance of boundaries	Do not cause disturbance of vegetation outside the delineated pipeline easement, or the delineated area of disturbance outside the easement, unless authorised by the Minister for the Environment.		To minimise disturbance of remnant vegetation	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M8.3	Vegetation disturbance – environmentally sensitive areas	Do not cause or allow disturbance of vegetation outside the 20 metre wide easement located within environmentally sensitive areas, unless authorised by the Minister for the Environment.	Establish and implement auditing compliance reporting system.	To minimise disturbance of vegetation in environmentally sensitive areas	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.1	Fauna Management Plan - preparation	Prepare a Fauna Management Plan, which includes a Fauna Interaction Protocol, in consultation with the DEC.	The Plan shall include: <ul style="list-style-type: none"> <li>Procedures to minimise and manage impacts on all native fauna, including conservation-significant fauna species identified in Bancroft and Bamford, Fauna Values of Stage 5 of the Dampier to Bunbury Natural Gas Pipeline (DBNGP): A Review (2006).</li> <li>Procedures for the management of water bodies within open trenches to minimise fauna death or injury.</li> </ul>	To minimise direct impacts on native fauna	Design Prior to ground disturbing activities	-	R_003_DBNGP Stage 5 Looping Expansion Project 2007 Annual Environmental Compliance Report_01052008	Condition satisfied as reported in the 2007 annual compliance report (DBP 2008).	Completed
735:M9.2	Fauna – trench clearing	The clearing of open trenches by the fauna-clearing persons is to be completed each day by no later than 4.5 hours after sunrise for Loops 0 to 7 and no later than 5 hours after sunrise for Loops 8 to 10 and at least half an hour prior to the backfilling of pipeline trenches.	-	To minimise death or injury to fauna trapped in the open trenches	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.3	Fauna – open trench length	Open trench lengths shall not exceed a length capable of being inspected and cleared by fauna clearing persons within the required times as set out in conditions 9-2, 10-2 and 10-4.	-	To minimise death or injury to fauna trapped in the open trenches	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.4	Fauna – identification of significant habitat trees	Significant habitat trees of sufficient age to form nesting hollows for hollow-nesting birds and mammals shall be marked, prior to construction, in consultation with the DEC.	-	To identify significant habitat trees that can be retained	Construction Prior to construction in each area	A habitat tree was assessed as having habitat value if it had 'a trunk diameter greater than 30 centimetres at breast height, irrespective of availability of lack of any evidence of use by fauna' (CEMP Controlled version 2)	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.5	Fauna – retention of significant habitat trees	Marked significant habitat trees as referred to in condition 9-4 shall be retained, except in the case where habitat trees occur in the direct line of the proposed pipeline.	-	To retain significant habitat trees for fauna, where possible	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.6	Fauna – backfill of trench	Monitor weather forecasts through the Bureau of Meteorology and in the event of a weather forecast indicating rainfall sufficient to cause flooding of trenches or drowning of fauna trapped in trenches, in consultation with DEC, backfill all lengths of open trench with a potential to be flooded or cause drowning of fauna.	-	To minimise harm to fauna that could be trapped and drown in open trenches	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage

Audit code	Subject	Action	How	Objective	Phase/Timing	Criteria	Evidence	Finding	Status
735:M9.7	Fauna – period that trench is open	Where wet trenching is conducted, trenches shall not remain open for periods longer than 48 hours within wetlands and environmentally sensitive areas and 7 days for all other areas.	-	To minimise death or injury to fauna	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.8	Fauna – qualifications of clearing persons	The fauna clearing persons shall operate in teams of two with at least one fauna clearing person experienced in the following, to the requirements of DEC: <ul style="list-style-type: none"> <li>• Fauna identification, capture and handling (including venomous snakes).</li> <li>• Identification of tracks, scats, burrows and nests of conservation significant species.</li> <li>• Fauna vouchering.</li> <li>• Assessing injured fauna for suitability for release, rehabilitation or euthanasia.</li> <li>• Familiarity with the ecology of the species that may be encountered in order to be able to appropriately translocate fauna encountered.</li> <li>• Performing euthanasia.</li> </ul>	-	To ensure fauna handling is of a high standard	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.9:1	Fauna – clearing person training	Ensure that basic fauna handling training is provided to fauna clearing persons who do not possess the skills and experience outlined in condition 9-8 prior to the fauna clearing person commencing employment.	-	To ensure fauna handling is of a high standard	Design	In accordance with training developed in consultation with DEC.	N/A	No design phase relevant to the audit period – Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.9:2	Fauna clearing person-training	Ensure that basic fauna handling training is provided to fauna clearing persons who do not possess the skills and experience outlined in condition 9-8 prior to the fauna clearing person commencing employment.	-	To ensure fauna handling is of a high standard	Construction	In accordance with training developed in consultation with DEC.	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.10:1	Fauna – clearing person training	The fauna handling training as outlined in condition 9-9 shall be developed in consultation with the DEC.	-	To ensure best practice management	Design	-	N/A	No design phase relevant to the audit period – Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.10:2	Fauna – clearing person training	The fauna handling training as outlined in condition 9-9 shall be developed in consultation with the DEC.	-	To ensure best practice management	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.11	Fauna – period that trench is open	No part of the trench shall remain open for more than 14 days except 'bell holes', unless authorised by the CEO.	Establish record log book as required by condition 9-13.	To minimise death or injury to fauna	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.12	Fauna – period that trench is open	In environmentally sensitive areas, no part of the trench shall remain open for more than seven days, unless authorised by the CEO.	Establish record log book as required by condition 9-13.	To minimise death or injury to fauna	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.13	Fauna – period that trench is open	In order to comply with condition 9-11 and condition 9-12, record each day in a log and on the ground the kilometre points of the start point and finish point of the trench opened on each day.	-	To ensure conditions are complied with	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage

Audit code	Subject	Action	How	Objective	Phase/Timing	Criteria	Evidence	Finding	Status
735:M9.14	Fauna Management Plan – review and revise	Review and revise, as required, the Fauna Management Plan required by condition 9-1.	Utilise compliance, performance and auditing reports.	To ensure best practice management	Construction	-	R_002_DBNGP Stage 5 Expansion Looping Project Construction Environmental Management Plan_17082011	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.15	Fauna Management Plan - implementation	Implement the Fauna Management Plan and subsequent revisions.	Incorporate in construction planning	To ensure appropriate management actions are taken to minimise any impacts on fauna	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.16	Fauna Management Plan – public availability	Make the Fauna Management Plan and subsequent revisions publicly available.	The revised requirement for making the Fauna Management plan publicly available is as follows: Carry out the following: 1) Provide a hard copy to the DEC library and 2) Make the Management Plan available on the DBNGP website.	To ensure the public is kept informed	Overall	-	R_002_DBNGP Stage 5 Expansion Looping Project Construction Environmental Management Plan_17082011 DBP website copy at <a href="http://www.dbp.net.au/wp-content/uploads/2015/01/20110817-E-PLN-015-2-Stage-5B-CEMP.pdf">http://www.dbp.net.au/wp-content/uploads/2015/01/20110817-E-PLN-015-2-Stage-5B-CEMP.pdf</a>	Within the approved CEMP is a section relating to 'Fauna Impact Protocol'. This information is publicly available on the DBP website. No revisions occurred during this audit period.	Compliant
735:M9.17	Fauna management – performance monitoring reports	Produce weekly performance monitoring reports on fauna management for each loop.	The Reports shall include, but not necessarily be limited to, details of all fauna inspections, the number of fauna cleared from trenches, fauna interactions, fauna mortalities and all actions taken. These reports are to be provided to the CEO each week.	To provide evidence of the effectiveness of fauna management measures	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.18:1	Fauna management – performance monitoring reports	Produce monthly performance monitoring reports on fauna management for each Loop.	The Reports shall include, but not necessarily be limited to, details of all fauna inspections, the number of fauna cleared from trenches, fauna interactions, fauna mortalities and all actions taken.	To provide evidence of environmental performance in relation to fauna management	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M9.18:2	Fauna management – performance monitoring reports	Make the monthly performance monitoring reports publicly available on completion of each loop.	The revised requirement for making monthly performance monitoring reports publicly available is as follows, reports to be provided to: 1) The DEC (Compliance Monitoring Section) 2) The DEC library 3) Made available on the website of the DBNGP	To ensure the public is kept informed	Overall	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M10.1	Timing of construction works – Loops 0 to 2	Avoid open trench work on Loops 0 to 2 from November to March inclusive unless otherwise allowed for in condition 10-2.	Establish and implement auditing compliance reporting system.	To avoid working in the wet season	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M10.2	Timing of construction works – Loops 0 to 2	In the event that open trench work on Loops 0 to 2 is conducted during November to March the following shall be undertaken: <ul style="list-style-type: none"> <li>Provide a report to the DEC outlining the reasons why open trench work was necessary during the period November to March inclusive.</li> <li>Complete fauna clearing as described in condition 9-2 by 3 hours after sunrise or when daily temperatures are forecast by the Bureau of Meteorology to exceed 35°C fauna clearing shall be completed by 2.5 hours after sunrise.</li> </ul>	Establish and implement auditing compliance reporting system.	To avoid working in the wet season	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage

Audit code	Subject	Action	How	Objective	Phase/Timing	Criteria	Evidence	Finding	Status
735:M10.3	Timing of construction works – Loops 8 to 10	Avoid open trench work on Loops 8 to 10 from June to December (inclusive) unless otherwise allowed for in condition 10-4.	Establish and implement auditing compliance reporting system.	To avoid working in the wet season	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M10.4	Timing of construction works – Loops 8 to 10	Where open trench work is undertaken during June to December inclusive the following shall be undertaken: <ul style="list-style-type: none"> <li>Provide a report to the DEC outlining the reasons why open trench work was necessary during the period June to December inclusive.</li> <li>Implement the Wetlands Crossing Management Plan (condition 12-1) and the Dieback and Weed Management Plan (condition 13-2).</li> </ul>	Establish and implement auditing compliance reporting system.	To avoid working in the wet season	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M11.1:1	Watercourses – vegetation delineation	Delineate the riparian vegetation along watercourses which will be traversed.	-	To minimise and manage disturbance of riparian vegetation	Design	-	N/A	No design phase relevant to the audit period – Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M11.1:2	Watercourses-vegetation delineation.	Delineate the riparian vegetation along watercourses which will be traversed	-	To minimise and manage disturbance of riparian vegetation	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M11.2	Watercourse Crossing Management Plan -	Prepare in consultation with the DEC, a Watercourse Crossing Management Plan to minimise disturbance of riparian vegetation.	The Plan shall address: <ul style="list-style-type: none"> <li>Objectives and key performance criteria.</li> <li>Management actions (e.g. general requirements, surveying, trenching and excavation, drilling).</li> <li>Monitoring and recording.</li> <li>Contingency actions.</li> </ul>	To minimise and manage disturbance of watercourses	Design Prior to ground-disturbing activities	-	R_003_DBNGP Stage 5 Looping Expansion Project 2007 Annual Environmental Compliance Report_01052008	Condition satisfied as reported in the 2007 annual compliance report (DBP 2008).	Completed
735:M11.3	Watercourse Crossing Management Plan - implementation	Implement the Watercourse Crossing Management Plan.	Incorporate into construction planning	To ensure appropriate management actions are taken to minimise any impacts on watercourses	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M11.4	Watercourse Crossing Management Plan – public availability	Make the Watercourse Crossing Management Plan publicly available	The revised requirement for making the Watercourse Crossing Management Plan publicly available is as follows: Carry out the following: 1) Provide a hard copy to the DEC library and 2) Make the Management Plan available on the DBNGP website.	To ensure the public is kept informed	Overall	-	R_002_DBNGP Stage 5 Expansion Looping Project Construction Environmental Management Plan_17082011 DBP website copy at <a href="http://www.dbp.net.au/wp-content/uploads/2015/01/20110817-E-PLN-015-2-Stage-5B-CEMP.pdf">http://www.dbp.net.au/wp-content/uploads/2015/01/20110817-E-PLN-015-2-Stage-5B-CEMP.pdf</a>	Within the approved CEMP is a section relating to 'Watercourse Crossing Protocol'. This information is publicly available on the DBP website. No revisions occurred during this audit period.	Compliant
735:M12.1	Wetland crossing Management Plan - prepare	Prepare, in consultation with the DEC, a Wetland Crossing Management Plan.	As described in condition 12-2.	To minimise and manage disturbance to wetlands and wetland buffer areas	Design	Criteria established by condition 12-1	R_003_DBNGP Stage 5 Looping Expansion Project 2007 Annual Environmental Compliance Report_01052008	Condition satisfied as reported in the 2007 annual compliance report (DBP 2008).	Completed
735:M12.2	Wetland crossing Management Plan - prepare	The Wetland Crossing Management Plan shall set out procedures to protect any wetland crossed by the trench in the event that trenching is proposed where there is standing water in the wetland.	Establish and implement auditing compliance reporting system.	To minimise and manage disturbance to wetlands and wetland buffer areas	Design	Criteria established by condition 12-1	R_003_DBNGP Stage 5 Looping Expansion Project 2007 Annual Environmental Compliance Report_01052008	Condition satisfied as reported in the 2007 annual compliance report (DBP 2008).	Completed
735:M12.3	Wetland Crossing Management Plan - implementation	Implement the Wetland Crossing Management Plan.	-	To ensure appropriate management actions are taken to minimise any impacts on wetlands	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage

Audit code	Subject	Action	How	Objective	Phase/Timing	Criteria	Evidence	Finding	Status
735:M12.4	Wetland Crossing Management Plan – public availability	Make the Wetland Crossing Management Plan publicly available.	The revised requirement for making the Wetland Crossing Management Plan publicly available is as follows: Carry out the following: 1) Provide a hard copy to the DEC library and 2) Make the Management Plan available on the DBNGP website.	To ensure the public is kept informed	Overall	-	R_002_DBNGP Stage 5 Expansion Looping Project Construction Environmental Management Plan_17082011 DBP website copy at <a href="http://www.dbp.net.au/wp-content/uploads/2015/01/20110817-E-PLN-015-2-Stage-5B-CEMP.pdf">http://www.dbp.net.au/wp-content/uploads/2015/01/20110817-E-PLN-015-2-Stage-5B-CEMP.pdf</a>	Within the approved CEMP is a section relating to 'Wetland Management Protocol'. This information is publicly available on the DBP website. No revisions occurred during this audit period.	Compliant
735:M13.1	Dieback – delineate risk areas	Delineate surveyed occurrences of high risk, medium risk and medium to low risk dieback areas.	Establish and implement auditing compliance reporting system.	To minimise and manage the risk of introducing or spreading dieback	Design	-	N/A	No design phase relevant to the audit period – Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M13.2	Dieback and Weed Management Plan - prepare	Prepare a Dieback and Weed Management Plan.	The plan shall address: Objectives and key performance criteria. Management actions (e.g. general requirements, hygiene management procedures). Monitoring and recording. Contingency actions.	To minimise the risk of introducing or spreading weeds and/or diseases	Design Prior to ground disturbing activities	-	R_003_DBNGP Stage 5 Looping Expansion Project 2007 Annual Environmental Compliance Report_01052008	Condition satisfied as reported in the 2007 annual compliance report (DBP 2008).	Completed
735:M13.3	Dieback and Weed Management Plan – review and revise	In consultation with the DEC, review and revise, as required, the Dieback and Weed Management Plan.	-	To ensure best management practice	Construction	-	R_002_DBNGP Stage 5 Expansion Looping Project Construction Environmental Management Plan_17082011	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M13.4	Dieback and Weed Management Plan - implementation	Implement the Weed and Dieback Management Plan and any subsequent revisions of the Weed and Dieback Management Plan.	Incorporate in construction planning	To ensure appropriate management actions are taken to minimise impacts from weed and dieback introduction and/or spread	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M13.5	Dieback and Weed Management Plan – public availability	Make the Weed and Dieback Management Plan and any subsequent revisions required by condition 13-3 publicly available.	The revised requirement for making the Weed and Dieback Management Plan publicly available is as follows: Carry out the following: 1) Provide a hard copy to the DEC library and 2) Make the Management Plan available on the DBNGP website.	To ensure the public is kept informed	Overall	-	R_002_DBNGP Stage 5 Expansion Looping Project Construction Environmental Management Plan_17082011 DBP website copy at <a href="http://www.dbp.net.au/wp-content/uploads/2015/01/20110817-E-PLN-015-2-Stage-5B-CEMP.pdf">http://www.dbp.net.au/wp-content/uploads/2015/01/20110817-E-PLN-015-2-Stage-5B-CEMP.pdf</a>	Within the approved CEMP is a section relating to 'Weed, Pest and Dieback Management Protocol'. This information is publicly available on the DBP website. No revisions occurred during this audit period.	Compliant
735:M14.1	Rehabilitation Management Plan - prepare	Prepare a Rehabilitation Management Plan.	The Plan shall address: 5. Weed management protocols. 6. Dieback management protocols. 7. Soil management protocols. 8. Rehabilitation completion criteria. 9. The need for propagule augmentation to achieve completion criteria	To re-establish vegetation and associated habitat areas, controlling sediment and erosion.	Design Prior to ground-disturbing activities	Criteria established by condition 14-1	R_003_DBNGP Stage 5 Looping Expansion Project 2007 Annual Environmental Compliance Report_01052008	Condition satisfied as reported in the 2007 annual compliance report (DBP 2008).	Completed
735:M14.2	Rehabilitation – management period	Manage rehabilitation of the pipeline route until the rehabilitation completion criteria, referred to in condition 14-1, have been achieved (Note: obligations under DoIR legislation mean the vehicular access track must be maintained and thus certain completion criteria may not be achievable within the access track).		To ensure effective rehabilitation	Overall	Criteria established by condition 14-1	C_007_OEPA_DBNGP Stage 5 Looping Expansion Project - Rehabilitation Management Plan - Ministerial Statement 735_04022015 R_006_DBNGP Stage 5 Expansion Rehabilitation Management Plan Rev 5_21012015	Mattiske (2015) reported the following results (text amended for minor edits): <b>Stage 5A:</b> Stage 5A Loops 1 and 5 High Conservation Value (HCV) rehabilitation areas satisfied all minimum requirements outlined in the completion criteria and are therefore recommended for closure. Stage 5A Loop 8 General Right of Way (GRoW) areas satisfied three out of the four minimum requirements outlined in the completion criteria. Improvements in native perennial species richness and plant foliage cover were recorded, however native perennial plant density in rehabilitation areas only	Compliant

Audit code	Subject	Action	How	Objective	Phase/Timing	Criteria	Evidence	Finding	Status
								<p>achieved 32% of that recorded in the corresponding controls. Further monitoring of Loop 8 GRoW areas may be required to ensure that minimum compliance is achieved.</p> <p><b>Stage 5B:</b> Stage 5B Loops 8 and 10 GRoW rehabilitation areas satisfied all minimum requirements outlined in the completion criteria and are therefore recommended for closure. Despite improvements between 2014 and 2015, Loop 9 HCV rehabilitation areas failed to achieve minimum requirements outlined in the completion criteria for native perennial species richness, percentage native perennial plant foliage cover and percentage weed foliage cover. Further monitoring of Loop 9 HCV areas may be required to ensure that minimum compliance is achieved.</p> <p>The Rehabilitation Monitoring Report (Mattiske 2015) identifies several sites for continued monitoring to ensure completion of the minimum criteria. These will continue to be monitored in the next reporting period.</p>	
735:M14.3:1	Rehabilitation Management Plan – review and revision	In consultation with the DEC, review and revise, as required, the Rehabilitation Management Plan.	-	To ensure best practice	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M14.3:2	Rehabilitation Management Plan – review and revision	In consultation with the DEC, review and revise, as required, the Rehabilitation Management Plan.	-	To ensure best practice	Operation	-	<p>C_005_DPAW_RE: Summary of the existing and proposed rehabilitation criteria - DBNGP Looping Expansions_01102014</p> <p>C_006_DBNGP Stage 5 Looping Expansion Project - Rehabilitation Management Plan_18122014</p> <p>C_007_OEPA_DBNGP Stage 5 Looping Expansion Project - Rehabilitation Management Plan - Ministerial Statement 735_04022015</p> <p>R_006_DBNGP Stage 5 Expansion Rehabilitation Management Plan Rev 5_21012015</p>	<p>Revision of Rehabilitation Management Plan occurred during the previous audit period in consultation with DPAW (formerly DEC). Items revised included the completion criteria.</p> <p>The revised Rehabilitation Management Plan was endorsed by DPAW in October 2014 and subsequently approved by OEPA in February 2015.</p>	Compliant
735:M14.4:1	Rehabilitation Management Plan - implementation	Implement the Rehabilitation Management Plan and subsequent revisions until such time as the completion criteria are met.	-	To ensure rehabilitation planning and activities are implemented	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M14.4:2	Rehabilitation Management Plan - implementation	Implement the Rehabilitation Management Plan and subsequent revisions until such time as the completion criteria are met.	-	To ensure rehabilitation planning and activities are implemented	Operation	-	Refer to item 735:M14.2	Refer to item 735:M14.2.	Compliant
735:M14.5	Rehabilitation Management Plan – public availability	Make the Rehabilitation Management Plan and subsequent revisions publicly available.	The revised requirement for making the Rehabilitation Management Plan publicly available is as follows: Carry out the following: 1) Provide a hard copy to the DEC library and 2) Make the Management Plan available on the DBNGP website.	To ensure the public is kept informed	Overall	-	<p>C_007_OEPA_DBNGP Stage 5 Looping Expansion Project - Rehabilitation Management Plan - Ministerial Statement 735_04022015</p> <p>DBP website copy at <a href="http://www.dbp.net.au/wp-content/uploads/2015/01/20150121-E-PLN-016-5-Stage-5-Rehabilitation-MP.pdf">http://www.dbp.net.au/wp-content/uploads/2015/01/20150121-E-PLN-016-5-Stage-5-Rehabilitation-MP.pdf</a></p>	Rehabilitation report is made publically available through the DBP website	Compliant
735:M15.1	Acid Sulphate Soils - investigations	Prior to the commencement of soil disturbance or dewatering in an area, undertake field investigations within that area to clearly delineate areas of high, high to medium, medium to low risk acid sulphate soils.	-	To identify those areas where acid sulphate soil management is required	Design Prior to the commencement of soil disturbance or dewatering in an area	DoE Acid Sulfate Soils Guideline Series (DoE 2006)	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M15.2	Acid Sulphate Soils - Management	Ensure that within high, high to medium and medium to low acid sulphate soil risk areas, trenches will be excavated in lengths that permit trenches to be opened and closed within a 48 hour period.	Establish and implement auditing compliance reporting system.	To minimise adverse affects caused by acid sulphate soil disturbance	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage

Audit code	Subject	Action	How	Objective	Phase/Timing	Criteria	Evidence	Finding	Status
735:M15.3	Acid Sulphate Soils and Dewatering Management Plan - prepare	Prepare an Acid Sulphate Soils and Dewatering Management Plan, in consultation with the DEC to the requirements of the Minister for the Environment on advice of the EPA.	Plan to demonstrate that all practical measures have been included to manage the potential impacts of acid sulphate soils and dewatering activities.	To ensure that there are no adverse impacts to sensitive receptors as a result of acid sulphate soil disturbance and dewatering	Design Prior to trenching and excavation activities	Criteria established by M15-3	R_003_DBNGP Stage 5 Looping Expansion Project 2007 Annual Environmental Compliance Report_01052008	Condition satisfied as reported in the 2007 annual compliance report (DBP 2008).	Completed
735:M15.4	Acid Sulphate Soils and Dewatering Management Plan – review and revise	Review and revise, as required, the Acid Sulphate Soils and Dewatering Management Plan.	-	To ensure best practice management	Construction	-	R_002_DBNGP Stage 5 Expansion Looping Project Construction Environmental Management Plan_17082011	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M15.5	Acid Sulphate Soils and Dewatering Management Plan - implementation	Implement and comply with the Acid Sulphate Soils and Dewatering Management Plan and subsequent revisions.	Incorporate in construction planning.	To ensure appropriate management actions are taken to minimise impacts from acid sulphate soil disturbance and dewatering	Construction	-	N/A	Previously reported and no further construction will be undertaken at this stage	Not required at this stage
735:M15.6	Acid Sulphate Soils and Dewatering Management Plan – public availability	Make the Acid Sulphate Soils and Dewatering Management Plan and subsequent revisions publicly available.	The revised requirement for making the Acid Sulphate Soils and Dewatering Management Plan publicly available is as follows: Carry out the following: 1) Provide a hard copy to the DEC library and 2) Make the Management Plan available on the DBNGP website.	To ensure the public is kept informed	Overall	-	R_002_DBNGP Stage 5 Expansion Looping Project Construction Environmental Management Plan_17082011 DBP website copy at <a href="http://www.dbp.net.au/wp-content/uploads/2015/01/20110817-E-PLN-015-2-Stage-5B-CEMP.pdf">http://www.dbp.net.au/wp-content/uploads/2015/01/20110817-E-PLN-015-2-Stage-5B-CEMP.pdf</a>	Within the approved CEMP is a section relating to 'Acid Sulphate Soil Management Protocol'. This information is publicly available on the DBNGP website. No revisions occurred during this audit period.	Compliant
735:M16.1	Preliminary Decommissioning Plan - prepare	Prepare a Preliminary Decommissioning Plan for approval by the CEO.	The Plan shall describe the framework and strategies to ensure that the site is left in an environmentally acceptable condition, and provides: <ul style="list-style-type: none"> <li>The rationale for the siting and design of plant and infrastructure as relevant to environmental protection.</li> <li>A conceptual description of the final landform at closure.</li> <li>A plan for a care and maintenance phase.</li> <li>Initial plans for the management of noxious materials.</li> </ul>	To appropriately decommission the DBNGP in accordance with regulatory requirements and accepted best practice environmental management	Design Prior to undertaking ground-disturbing activities	Criteria established by M16-1	R_003_DBNGP Stage 5 Looping Expansion Project 2007 Annual Environmental Compliance Report_01052008	Condition satisfied as reported in the 2007 annual compliance report (DBP 2008).	Completed

Audit code	Subject	Action	How	Objective	Phase/Timing	Criteria	Evidence	Finding	Status
735:M16.2	Final Decommissioning Plan – prepare and submit	At least 12 months prior to the anticipated date of closure, or at a time approved by the EPA, submit a Final Decommissioning Plan designed to ensure that the site is left in an environmentally acceptable condition prepared on advice of the EPA, for approval of the CEO.	The Final Decommissioning Plan shall set out procedures and measures for: <ul style="list-style-type: none"> <li>• Removal or, if appropriate, retention of plant and infrastructure agreed in consultation with relevant stakeholders.</li> <li>• Rehabilitation of all disturbed areas to a standard suitable for the agreed new land use(s).</li> <li>• Identification of contaminated area, including provision of evidence of notification and proposed management measures to relevant statutory authorities.</li> </ul>	To ensure that the site is left in an environmentally acceptable condition	Overall At least 12 months prior to anticipated closure	Criteria established by condition 16-2	C_008_DBP_Asset Life_03082012	Not yet relevant (not within 12 months of anticipated closure).	Not required at this stage
735:M16.3	Final Decommissioning Plan - implementation	Implement the Final Decommissioning Plan until such time as the Minister for the Environment determines, on advice of the CEO, that decommissioning responsibilities have been fulfilled.	-	To ensure that the Final Decommissioning Plan is implemented	Closure	-	C_008_DBP_Asset Life_03082012	Not yet relevant (closure phase).	Not required at this stage
735:M16.4	Final Decommissioning Plan – public availability	Make the Final Decommissioning Plan publicly available.	The revised requirement for making the Final Decommissioning Plan publicly available is as follows: Carry out the following: 1) Provide a hard copy to the DEC library and 2) Make the Management Plan available on the DBNGP website.	To ensure the public is kept informed	Overall	-	C_008_DBP_Asset Life_03082012	Not yet relevant.	Not required at this stage

## 6. STATEMENT REGARDING COMPLIANCE

A Statement of Compliance is included as Appendix A.

## 7. REFERENCES

DBP 2008, DBNGP Stage 5 Looping Expansion Project - DBPL00-506-0504-01 2007 Annual Environmental Compliance Report (Ministerial Statement No. 735), report prepared for DBNGP (WA) Nominees Pty Ltd by Strategen, Leederville, Western Australia.

DBP 2011, DBNGP Stage 5 Expansion Looping Project DBPL-00-501-0722-01 Construction Environmental Management Plan – Controlled Version 2, report prepared for DBNGP (WA) Nominees Pty Ltd, August 2011.

DBP 2015, Dampier to Bunbury Natural Gas Pipeline Stage 5 Expansion Rehabilitation Management Plan Revision 5, January 2015.

Mattiske Consulting Pty Ltd (Mattiske) 2015 Reassessment of Selected Stage 4, 5A & 5B Control and Rehabilitation Areas.

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 2006, Dampier-Bunbury Natural Gas Pipeline Stage 5 Expansion – Environmental Impact Assessment, report prepared for Alinta Asset Management by Strategen, Leederville, Western Australia.

Strategen 2008, Dampier-Bunbury Natural Gas Pipeline Stage 5 Expansion – Loop 10 Compliance Audit, report prepared for Westnet Energy, December 2008

Strategen 2012a, DBNGP Stage 5 Looping Expansion Project- 2011 Annual Environmental Compliance Report (Statement No. 735), report prepared for DBNGP (WA) Nominees Pty Ltd, July 2012

Strategen 2012b, Dampier Bunbury Natural Gas Pipeline Stage 5 Looping Expansion Project Five-year Performance Review (2007-2012), report prepared for DBNGP (WA) Nominees Pty Ltd, August 2012.

Strategen 2014, DBNGP Stage 5 Looping Expansion Project- 2013 Annual Environmental Compliance Report (Statement No. 735), report prepared for DBNGP (WA) Nominees Pty Ltd, March 2014.

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# APPENDIX A: STATEMENT OF COMPLIANCE

## Statement of Compliance

### 1 Proposal and Proponent Details

Proposal Title	<i>Dampier to Bunbury Natural Gas Pipeline Stage 5 Expansion</i>
Statement Number	735
Proponent Name	<i>DBNGP (WA) Nominees Pty Ltd trading as Dampier Bunbury Pipeline</i>
Proponent's Australian Company Number (where relevant)	

### 2 Statement of Compliance Details

Reporting Period	14/12/14 to 13/12/15
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Implementation phase(s) during reporting period (please tick ✓ relevant phase(s))			
Pre-construction	<input type="checkbox"/>	Construction	<input type="checkbox"/>
		Operation	<input checked="" type="checkbox"/>
		Decommissioning	<input type="checkbox"/>

Audit Table for Statement addressed in this Statement of Compliance is provided at Attachment:	2
<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 type="checkbox"/>	Yes (please proceed to Section 4)	<input checked="" 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?	
Was the implementation condition or procedure non-compliant or potentially non-compliant?	
On what date(s) did the non-compliance or potential non-compliance occur (if applicable)?	
Was this non-compliance or potential non-compliance reported to the General Manager, OEPA?	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to OEPA verbally Date _____ <input type="checkbox"/> Reported to OEPA in writing Date _____	<input type="checkbox"/> No
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?	
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)	
What was the cause(s) of the non-compliance or potential non-compliance?	
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?	
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?	
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 information may be provided as an attachment to this Statement of Compliance)	

For additional non-compliance or potential non-compliance, please duplicate this page as required.

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

**4 Proponent Declaration**

I, STUART JOHNSTON, CEO, (full name and position title) declare that I am authorised on behalf of ..... (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: [Handwritten Signature] Date: 29/2/16

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 General Manager of the OEPA 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 General Manager, OEPA, marked to the attention of Manager, Compliance Branch.

Please note, the OEPA has adopted a procedure of providing written acknowledgment of receipt of all Statements of Compliance submitted by the proponent, however, the OEPA 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 Branch, OEPA:

**Manager, Compliance Branch  
Office of the Environmental Protection Authority**

Postal Address: Locked Bag 10  
EAST PERTH WA 6892

Phone: (08) 6145 0800

Email: [compliance@epa.wa.gov.au](mailto:compliance@epa.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) in the following locations:

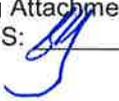
- Post Assessment Guidelines: Home>Policies and Guidelines>Post Assessment Guidelines;
- Post Assessment Forms: Home>Post Assessment Forms.

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

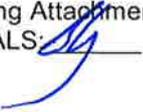
## ATTACHMENT 1

Table 1 Compliance Status Terms

Compliance Status Terms	Abbrev	Definition	Notes
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: 

In Process	IP	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><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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Each page (including Attachment 2) must be initialed by the person who signs Section 4 of this Statement of Compliance. INITIALS: 

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# APPENDIX B: MONITORING REPORTS



**Mattiske** Consulting Pty Ltd

## RE: Status of MS735 Stage 5 (5A & 5B) Rehabilitation

### **INTRODUCTION**

The following memorandum has been prepared on behalf of DBNGP (WA) Nominees Pty Limited and serves as an addendum to detailed rehabilitation studies undertaken by Mattiske Pty Ltd (2014, 2015) within MS735 Stage 5 (5A & 5B).

Permanent rehabilitation monitoring sites within MS735 Stage 5 (5A & 5B) were monitored multiple times between 2009 and 2015 for Stage 5A, and 2011 and 2015 for Stage 5B. The current status of each Loop, in relation to compliance, has been based on the most recent years of monitoring (Mattiske Consulting 2014, 2015).

In response to Ministerial Statement Number 735 section 10 (Environmental Protection Authority 2006), and the updated Rehabilitation Management Plan, the following summary has been prepared. For reference, Table 1 outlines specific aspects in the rehabilitation completion criteria for flora and vegetation (DBNGP (WA) Nominees Pty Limited, 2014).

**Table 1: Summary of the rehabilitation completion criteria for flora and vegetation**

Aspect	Completion Criteria	
	General Right-of-Way	Areas of High Conservation Value <sup>1</sup>
Native plant species density	Perennial native plant species density is greater than or equal to 40% of that of the adjacent control area at 36 months.	Perennial native plant species density is greater than or equal to 50% of that of the adjacent control area at 36 months.
Native species richness	Perennial native species richness equals or exceeds 40% of that of the adjacent control area at 36 months.	Perennial native species richness equals or exceeds 50% of that of the adjacent control area at 36 months.
Weed foliage cover	Foliage cover of Declared and Environmental Weeds <sup>2</sup> is not greater than that of the adjacent control area at 12 and 24 months (excluding extensive populations of negligible and low ranking weed species).	Foliage cover of Declared and Environmental Weeds <sup>2</sup> is not greater than that of the adjacent control area at 12 and 24 months (excluding extensive populations of negligible and low ranking weed species).
Native plant foliage cover	Percentage foliage cover of perennial native species indigenous to each vegetation community is greater than or equal to 40% of that of the adjacent control area at 36 months.	Percentage foliage cover of perennial native species indigenous to each vegetation community is greater than or equal to 50% of that of the adjacent control area at 36 months.

<sup>1</sup>Areas of high conservation value include Conservation Parks and Nature Reserves traversed by the DBNGP.

<sup>2</sup>Environmental Weed Ranking: *Environmental Weed Strategy for W.A.* (DPaW, 2013).

## **KEY FINDINGS**

### ***Rehabilitation within Stage 5A in Relation to Completion Criteria***

Table 2 summarises the current status of rehabilitation within MS735 Stage 5A looping expansions in view of recommendations provided in Matiske Consulting Pty Ltd 2014 and 2015. A brief explanation for each recommendation follows Table 2.

**Table 2. Current status of rehabilitation within MS735 Stage 5A looping expansions in view of recommendations provided in Matiske Consulting Pty Ltd 2014 and 2015.**

<b>Loop</b>	<b>GROW/HCV</b>	<b>2014 Survey</b>	<b>2015 Survey</b>
1	GROW	Closure	-
	HCV	Re-monitor	Closure
2	GROW	Closure	-
3	GROW	Closure	-
4	GROW	Closure	-
5	GROW	Closure	-
	HCV	Re-monitor	Closure
6	GROW	Closure	-
7	GROW	Closure	-
8	GROW	Re-monitor	Re-monitor
	HCV	Closure	-
9	GROW	Closure	-
10	GROW	Closure	-

#### **Loop 1**

Following the 2014 survey, rehabilitation within Stage 5A Loop 1 GROW areas satisfied all minimum requirements outlined in the completion criteria and was recommended for closure. However, rehabilitation within Stage 5A Loop 1 HCV areas failed to satisfy both native perennial species density (Control: 1.274 plants/m<sup>2</sup>; Rehabilitation: 0.590 plants/m<sup>2</sup>) and percentage native perennial cover (Control: 0.082 %/m<sup>2</sup>; Rehabilitation: 0.033 %/m<sup>2</sup>); as a result re-monitoring was recommended in 2015 (Matiske Consulting Pty Ltd, 2014). Stage 5A Loop 1 HCV areas showed improvements across all four aspects between 2014 and 2015 surveys and subsequently satisfied all minimum requirements outlined in the completion criteria (Matiske Consulting Pty Ltd, 2015).

Recommendation: Closure.

#### **Loop 2**

Following the 2014 survey, rehabilitation within Stage 5A Loop 2 expansion areas (GROW) satisfied all minimum requirements outlined in the completion criteria (Matiske Consulting Pty Ltd, 2014).

Recommendation: Closure.

#### **Loop 3**

Following the 2014 survey, rehabilitation within Stage 5A Loop 3 expansion areas (GROW) satisfied all minimum requirements outlined in the completion criteria (Matiske Consulting Pty Ltd, 2014).

Recommendation: Closure.

#### **Loop 4**

Following the 2014 survey, rehabilitation within Stage 5A Loop 4 expansion areas (GRoW) satisfied three of the four minimum requirements outlined in the completion criteria. Native perennial species richness and native perennial plant density equalled or exceeded the controls, however, percentage native perennial plant cover failed to meet the minimum requirement (Control: 0.059 %/m<sup>2</sup>; Rehabilitation: 0.022 %/m<sup>2</sup>). Despite this, intervention and/or further monitoring was not recommended as it would be expected that percentage native perennial cover will continue to improve over time, given the strong perennial species richness and plant density results; particularly native perennial plant density which was almost three times that of the controls (Mattiske Consulting Pty Ltd, 2014).

Recommendation: Closure.

#### **Loop 5**

Following the 2014 survey, rehabilitation within Stage 5A Loop 5 expansion areas (GRoW) satisfied all minimum requirements outlined in the completion criteria and was recommended for closure (Mattiske Consulting Pty Ltd, 2014). However, rehabilitation within Stage 5A Loop 5 HCV areas failed to satisfy native perennial species richness targets (Control: 0.032 species/m<sup>2</sup>; Rehabilitation: 0.012 species/m<sup>2</sup>); as a result re-monitoring was recommended in 2015. Stage 5A Loop 5 HCV areas showed improvements between 2014 and 2015 surveys and subsequently satisfied all minimum requirements outlined in the completion criteria (Mattiske Consulting Pty Ltd, 2015).

Recommendation: Closure.

#### **Loop 6**

Following the 2014 survey, rehabilitation within Stage 5A Loop 6 expansion areas (GRoW) satisfied three of the four minimum requirements outlined in the completion criteria. Native perennial species richness and native perennial plant density exceeded the controls, however, percentage native perennial plant cover failed to meet the minimum requirement (Control: 0.096 %/m<sup>2</sup>; Rehabilitation: 0.029 %/m<sup>2</sup>). Despite this, intervention and/or further monitoring was not recommended as it would be expected that percentage native perennial cover will continue to improve over time, given the strong perennial species richness and plant density results (Mattiske Consulting Pty Ltd, 2014).

Recommendation: Closure.

#### **Loop 7**

Following the 2014 survey, rehabilitation within Stage 5A Loop 7 expansions satisfied all minimum requirements outlined in the criteria (Mattiske Consulting Pty Ltd, 2014).

Recommendation: Closure.

#### **Loop 8**

Following the 2014 survey, rehabilitation within Stage 5A Loop 8 HCV areas satisfied all minimum requirements outlined in the criteria and was recommended for closure. However, rehabilitation within Stage 5A Loop 8 GRoW areas failed to satisfy both native perennial species richness (Control: 4.675 species/m<sup>2</sup>; Rehabilitation: 1.617 species/m<sup>2</sup>) and native perennial plant density (Control: 14.483 plants/m<sup>2</sup>; Rehabilitation: 4.533 plants/m<sup>2</sup>); as a result re-monitoring was recommended in 2015 (Mattiske Consulting Pty Ltd, 2014). Stage 5A Loop 8 GRoW areas satisfied three of the four minimum requirements outlined in the completion criteria, with notable improvements in native perennial species richness and plant foliage cover being recorded between 2014 and 2015. Despite these positive results, native perennial plant density in rehabilitation areas (a key indicator) only achieved 32% of that recorded in the corresponding controls (Control: 11.75 plants/m<sup>2</sup>; Rehabilitation: 3.77 plants/m<sup>2</sup>; Mattiske Consulting Pty Ltd, 2015).

Recommendation: Re-monitor Loop 8 (GRoW) areas; closure of Loop 8 (HCV) areas.

### **Loop 9**

Following the 2014 survey, rehabilitation within Stage 5A Loop 9 expansion areas (GRoW) satisfied all minimum requirements outlined in the criteria (Mattiske Consulting Pty Ltd, 2014).

Recommendation: Closure.

### **Loop 10**

Following the 2014 survey, rehabilitation within Stage 5A Loop 10 expansion areas (GRoW) satisfied three of the four minimum requirements outlined in the completion criteria. Native percentage native perennial cover in rehabilitation areas was well below that of the controls (Control: 14.326 %/m<sup>2</sup>; Rehabilitation: 1.088 %/m<sup>2</sup>). This result however, was misleading given that survey sites were located within active pastoral lands. Despite poor native percentage perennial cover results, further monitoring and/or intervention within these areas would seem counterintuitive given that sites were located within active pastoral lands or adjacent to artificial drainage lines. No intact native vegetation is traversed by Stage 5A Loop 10 expansion areas.

Recommendation: Closure.

### **Rehabilitation within Stage 5B in Relation to Completion Criteria**

Table 3 summarises the current status of rehabilitation within MS735 Stage 5B looping expansions in view of recommendations provided in Mattiske Consulting Pty Ltd 2014 and 2015. A brief explanation for each recommendation follows Table 3.

**Table 3. Current status of rehabilitation within MS735 Stage 5B looping expansions in view of recommendations provided in Mattiske Consulting Pty Ltd 2014 and 2015.**

<b>Loop</b>	<b>GROW/HCV</b>	<b>2014 Survey</b>	<b>2015 Survey</b>
0	GROW	Closure	-
1	HCV	Closure	-
2	GROW	Closure	-
3	GROW	Closure	-
4	GROW	Closure	-
5	HCV	Closure	-
6	GROW	Closure	-
7	GROW	Closure	-
8	GROW	Re-monitor	Closure
9	HCV	Re-monitor	Re-monitor
10	GROW	Re-monitor	Closure

#### **Loop 0**

Following the 2014 survey, rehabilitation within Stage 5B Loop 0 expansion areas (GROW) satisfied all minimum requirements outlined in the completion criteria (Mattiske Consulting Pty Ltd, 2014).

Recommendation: Closure.

#### **Loop 1**

Following the 2014 survey, rehabilitation within Stage 5B Loop 1 expansion areas (HCV) satisfied three of the four minimum requirements outlined in the completion criteria. Native perennial species richness and native perennial plant density exceeded that of the controls, however, percentage native perennial plant cover failed to meet the minimum requirement (Control: 0.108 %/m<sup>2</sup>; Rehabilitation: 0.035 %/m<sup>2</sup>). Despite this, intervention and/or further monitoring was not recommended as it would be expected that percentage native perennial cover will continue to improve over time, given the strong perennial species richness and plant density results (Mattiske Consulting Pty Ltd, 2014).

Recommendation: Closure.

#### **Loop 2**

Following the 2014 survey, rehabilitation within Stage 5B Loop 2 expansion areas (GROW) satisfied three of the four minimum requirements outlined in the completion criteria. Native perennial species richness and native perennial plant density were comparable to controls, however, percentage native perennial plant cover failed to meet the minimum requirement (Control: 0.109 %/m<sup>2</sup>; Rehabilitation: 0.032 %/m<sup>2</sup>). Despite this, intervention and/or further monitoring was not recommended as it would be expected that percentage native perennial cover will continue to improve over time, given the strong perennial species richness and plant density results (Mattiske Consulting Pty Ltd, 2014).

Recommendation: Closure.

### **Loop 3**

Following the 2014 survey, rehabilitation within Stage 5B Loop 3 expansion areas (GRoW) satisfied all minimum requirements outlined in the completion criteria (Mattiske Consulting ty Ltd, 2014).

Recommendation: Closure.

### **Loop 4**

Following the 2014 survey, rehabilitation within Stage 5B Loop 4 expansion areas (GRoW) satisfied three of the four minimum requirements outlined in the completion criteria. Native perennial species richness and native perennial plant density performed well against the controls, however, percentage native perennial plant cover failed to meet the minimum requirement (Control: 0.060 %/m<sup>2</sup>; Rehabilitation: 0.018 %/m<sup>2</sup>). Despite this, intervention and/or further monitoring was not recommended as it would be expected that percentage native perennial cover will continue to improve over time, given the strong perennial species richness and plant density results (Mattiske Consulting ty Ltd, 2014).

Recommendation: Closure.

### **Loop 5**

Following the 2014 survey, rehabilitation within Stage 5B Loop 5 expansion areas (HCV) satisfied three of the four minimum requirements outlined in the completion criteria. Native perennial species richness and native perennial plant density performed well against the controls, however, percentage native perennial plant cover failed to meet the minimum requirement (Control: 0.111 %/m<sup>2</sup>; Rehabilitation: 0.042 %/m<sup>2</sup>). Despite this, intervention and/or further monitoring was not recommended as it would be expected that percentage native perennial cover will continue to improve over time, given the strong perennial species richness and plant density results (Mattiske Consulting ty Ltd, 2014).

Recommendation: Closure.

### **Loop 6**

Following the 2014 survey, rehabilitation within Stage 5B Loop 6 expansion areas (GRoW) satisfied all minimum requirements outlined in the completion criteria (Mattiske Consulting ty Ltd, 2014).

Recommendation: Closure.

### **Loop 7**

Following the 2014 survey, rehabilitation within Stage 5B Loop 7 expansion areas satisfied all minimum requirements outlined in the completion criteria (Mattiske Consulting ty Ltd, 2014).

Recommendation: Closure.

### **Loop 8**

Following the 2014 survey, rehabilitation within Stage 5B Loop 8 expansion areas satisfied two of the four minimum requirements outlined in the completion criteria. Both native perennial species richness (Control: 3.96 species/m<sup>2</sup>; Rehabilitation: 1.40 species/m<sup>2</sup>) and native perennial plant density (Control: 28.46 plants/m<sup>2</sup>; Rehabilitation: 8.72 plants/m<sup>2</sup>) were substantially lower in rehabilitation areas when compared to the controls; as a result re-monitoring was recommended in 2015 (Mattiske Consulting Pty Ltd, 2014). Loop 8 rehabilitation areas showed marked improvements in native perennial species richness, plant density and plant foliage cover between 2014 and 2015; subsequently, these areas satisfied all minimum requirements outlined in the completion criteria (Mattiske Consulting Pty Ltd, 2015).

Recommendation: Closure.

## Loop 9

Following the 2014 survey, rehabilitation within Stage 5B Loop 9 expansion areas (HCV) only satisfied one of the four minimum requirements outlined in the completion criteria. Native perennial species richness (Control: 2.50 species/m<sup>2</sup>; Rehabilitation: 0.93 species/m<sup>2</sup>), native perennial plant density (Control: 8.47 plants/m<sup>2</sup>; Rehabilitation: 3.32 plants/m<sup>2</sup>) and percentage native perennial plant cover (Control: 16.92 %/m<sup>2</sup>; Rehabilitation: 4.09 %/m<sup>2</sup>) were substantially lower in rehabilitation areas when compared to the controls; as a result re-monitoring was recommended in 2015 (Mattiske Consulting Pty Ltd, 2014). Loop 9 rehabilitation areas showed improvements between 2014 and 2015, however, rehabilitation areas still failed to attain the 50% compliance standard outlined in the completion criteria for native species richness (Control: 2.75 species/m<sup>2</sup>; Rehabilitation: 1.14 species/m<sup>2</sup>), percentage native plant foliage cover (Control: 15.89 %/m<sup>2</sup>; Rehabilitation: 6.99 %/m<sup>2</sup>) and percentage weed foliage cover (Control: 0.04 %/m<sup>2</sup>; Rehabilitation: 0.06 %/m<sup>2</sup>; Mattiske Consulting Pty Ltd, 2015).

Recommendation: Re-monitor Loop 9 HCV areas.

## Loop 10

Following the 2014 survey, rehabilitation within Stage 5B Loop 10 expansion areas (GRoW) satisfied two of the four minimum requirements outlined in the completion criteria. Both native perennial plant density (Control: 17.50 plants/m<sup>2</sup>; Rehabilitation: 3.67 plants/m<sup>2</sup>) and percentage perennial plant cover (Control: 10.65 %/m<sup>2</sup>; Rehabilitation: 3.67 %/m<sup>2</sup>) were substantially lower in rehabilitation areas when compared to the controls; as a result re-monitoring was recommended in 2015 (Mattiske Consulting Pty Ltd, 2014). Loop 10 rehabilitation areas showed marked improvements in native perennial species richness, plant density and plant foliage cover between 2014 and 2015; subsequently, these areas satisfied all minimum requirements outlined in the completion criteria (Mattiske Consulting Pty Ltd, 2015).

Recommendation: Closure.

## REFERENCES

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