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APPROVAL

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HISTORY

Rev	Date	Rev Description	Rev Author
1	14/08/11	First Issue	J. Crooks
4	01/02/12	DERM Approved TEP (Reference 358477/BNE40048-5)	R. Churchett
9	31/07/13	DEHP Approved TEP Amendment (Amendment A)	R. Churchett
12	18/07/2014	TEP Amendment (B) – Final	R Churchett
14	31/10/2014	TEP Amendment (C) – Submission to DEHP	R. Churchett
18	10/02/2016	TEP Amendment (D) – Submission to DEHP	R. Churchett
19	15/09/2016	TEP Amendment (E) – Submission to DEHP	R. Churchett
20	23/11/2016	TEP Amendment (E) – Submission to DEHP – Public Consultation Period Completed	R. Churchett

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Table of Contents

1.	OBJECTIVES AND SCOPE	3
2.	COMPLIANCE ACTIONS AND PERFORMANCE INDICATORS	5
3.	MONITORING COMPLIANCE AND REPORTING	15

1. Objectives and Scope

This Transitional Environmental Program (TEP) aims to address transitional arrangements for bringing dam construction standards for the Meridian Seam Gas Fields within PL94 into compliance with the current Environmental Authority (EA) EPPG00953013 issued on 18 May 2015 (Prior versions of this TEP align with the Original EA reference number of PEN102216711, and subsequent amended and to EPPG00783713 on 19 June 2013); specifically to the conditions listed below:

(J14)	All aggregations dams must; a) be designed with a floor and sides of material that will contain the wetting front and any entrained contaminants within the bounds of the containment system during its operational life including any period of decommissioning and rehabilitation; and b) have a system that will detect any passage of the wetting front or entrained contaminants through the floor sides of the dam.
(J15)	All brine dams must: a) be designed with a floor and sides of material that will contain the wetting front and any entrained contaminants within the bounds of the containment system during its operational life including any period of decommissioning and rehabilitation; and b) have a system that will detect any passage of the wetting front or entrained contaminants through the floor sides of the dam; and c) have a system for the collection and proper disposal of any contaminants that move beyond the bounds of the containment system.
(J39)	All existing aggregation dams must meet the requirements of condition (J14) by 1 October 2011.
(J40)	All existing brine dams must be the requirements of condition (J15) by 1 October 2011.
(J41)	All existing coal seam gas evaporation dams must meet the requirements of conditions (J14) or (J15), relevant to its intended use, by 1 October 2011.

(J12)

Regulated structures must:

- a) be designed and constructed in accordance with and conform to the Manual for Assessing Consequence Categories and Hydraulic Performance Structures (EM635)
- b) be designed and constructed with due consideration given to ensuring integrity would not be compromised on account of:
 - i. floodwaters from entering the regulated dam from any watercourse and
 - ii. wall failure due to erosion by floodwaters arising from any water line
- c) have the floor and sides of the dam designed and constructed to prevent passage of the wetting front and any entrained contaminants through the sides of the dam during the operational life of the dam and for any period of decommissioning and rehabilitation of the dam

2. Compliance Actions and Performance Indicators

As per the original compliance program, WestSide will continue to provide a summary of Key Performance Indicator (KPI) achievements via Milestone Reports to DEHP.

Table 3 (below) provides the original TEP milestone and key action reporting schedule, amended and updated including the actual status of all milestone dates already met.

Table 3: TEP Compliance Table.

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A),(B) (C) & (D) Completion Dates	Amendment (E) Completion Date	Comment / Update Status
1	Complete Site Water Balance	Complete Site Water Balance	Site Water Balance Report – Final submitted to DERM	2 April 2012	n/a	Completed: KPI met by Original TEP Due Date
2	Develop Detailed Infrastructure Specifications	Detail Infrastructure Specifications	Detailed Infrastructure Specifications Report – Final submitted to DERM	30 April 2012	n/a	Completed: KPI met by Original TEP Due Date
3	Plant & Infrastructure Procurement	Procurement of Plant & Infrastructure	Milestone Report 1 submitted to DERM containing procurement agreements for required Plant & Infrastructure	3 August 2012	n/a	Completed: KPI met by Original TEP Due Date
4	Cultural Heritage Approval	Obtain Cultural Heritage Approval for new infrastructure sites	Milestone Report 1 submitted to DERM containing Initial Cultural Heritage Investigation Report and Cultural Heritage Management Strategy Agreement.	3 August 2012	n/a	Completed: KPI met by Original TEP Due Date
5	Landowner Approval	Obtain Landowner Approval for new infrastructure sites	Milestone Report 1 submitted to DERM containing Executed Conduct and Compensation Agreements.	3 August 2012	n/a	Completed: KPI met by Original TEP Due Date
6	Source & Engage Construction Contractors	Tender documents developed Engage Construction Contractors and proposals received Contracts awarded.	Milestone Report 1 submitted to DERM confirming construction contracts finalised	3 August 2012	n/a	Completed: KPI met by Original TEP Due Date

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A),(B) (C) & (D) Completion Dates	Amendment (E) Completion Date	Comment / Update Status
7	Sludge Remediation Lab Trial	Provide Remediation Lab Trial report to DEHP	Submission of report to DEHP	20 August 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date
8	Sludge Remediation Field Trial	Provide Remediation Lab Trial report to DEHP	Submission of report to DEHP	18 December 2013 (B)	n/a	Completed: KPI met by Amendment A Completion Date
9	Ginnery Dam: Divert Field CSG Water from Dam	CSG water diverted from Dam	Written notification to DERM	24 January 2013	n/a	Completed: KPI met by Original TEP Due Date
10	Ginnery Dam: Remove Remaining CSG Water from Dam	Removal of Remaining CSG Water from Dam	Written notification and supporting photographs submitted to DERM	Originally 29 March 2013 DEHP Approved change to 25 January 2013	n/a	Completed: KPI met by Amended Due Date
11	Ginnery Dam: Progress Report	Progress report submission	Progress report, containing detail of soil remediation trial and specific Ginnery Dam remediation planning and works status.	25 July 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date
12	Ginnery Dam: Wet weather Preparations	Implement measures to minimise the collection of and holding time of rain water within Dam.	Written notification to DEHP	01 August 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date
13	Ginnery Dam: Progress Report	Progress report submission	Progress report, containing detail of soil remediation planning and works status.	25 January 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A),(B) (C) & (D) Completion Dates	Amendment (E) Completion Date	Comment / Update Status
14	Ginnery Dam: Contamination Assessment, Rehabilitation Plan, Remediation and Rehabilitation of Dam	Complete remediation of Ginnery Dam so that EA EPPG00783713 Conditions (I9) are met; submit final report to EHP demonstrating the requirements of Condition (I9) have been met. Obtain EHP approval for handover to landholder or Earthworks program completed in accordance with the rehabilitation plan.	Milestone Report 3 submitted to DERM containing: Submit soil contamination investigation, rehabilitation report, and contamination validation sampling results landholder agreement; or Written notification of completed earthworks and supporting photographs	Originally 20 June 2013 DEHP Approved change to 25 April 2013 Amended to 31 May 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
15	Mungi 9 Dam: Divert Field CSG Water from Dam	CSG water diverted from Dam	Written notification to DERM	22 November 2012	n/a	Completed: KPI met by Original TEP Due Date
16	Mungi 9 Dam: Remove Remaining CSG Water from Dam	Removal of Remaining CSG Water from Dam	Written notification and supporting photographs submitted to DERM	Originally 25 January 2013 DEHP Approved change to 15 March 2013	n/a	Completed: KPI met by Amended Due Date
17	Mungi 9 Dam: Wet weather Preparations	Implement measures to minimise the collection of and holding time of rain water within Dam.	Written notification to DEHP	01 August 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date
18	Mungi 9 Dam: Progress Report	Progress report submission	Progress report, containing detail of soil remediation trial and specific Mungi 9 Dam remediation planning and works status.	15 September 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A),(B) (C) & (D) Completion Dates	Amendment (E) Completion Date	Comment / Update Status
19	Mungi 9 Dam: Progress Report	Progress report submission	Progress report, containing detail of soil remediation trial and specific Mungi 9 Dam remediation planning and works status.	15 March 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
20	Mungi 9 Dam: Contamination Assessment, Rehabilitation Plan, Remediation and Rehabilitation of Dam	Complete remediation of Mungi 9 Dam so that EA EPPG00783713 Conditions (I9) are met; submit final report to EHP demonstrating the requirements of Condition (I9) have been met. Obtain EHP approval for handover to landholder or Earthworks program completed in accordance with the rehabilitation plan.	Milestone Report 4 submitted to DERM containing: Submit soil contamination investigation, rehabilitation report, and contamination validation sampling results landholder agreement; or Written notification of completed earthworks and supporting photographs	Originally 25 April 2013 DEHP Approved change to 20 June 2013 Amended to: 15 April 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
21	Nipan Dam: Divert Field CSG Water from Dam	CSG water diverted from Dam	Written notification to DERM	28 March 2013	n/a	Completed: Original KPI Due Date Met
22	Nipan Dam: Progress Report	Progress report submission	Progress report, containing progress detail of Nipan Dam dewatering and sludge treatment preparations	30 September 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date
23	Nipan Dam: Remove Remaining CSG Water from Dam	Removal of Remaining CSG Water from Dam	Written notification and supporting photographs submitted to DERM	01 November 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A),(B) (C) & (D) Completion Dates	Amendment (E) Completion Date	Comment / Update Status
24	Nipan Dam: Progress Report	Progress report submission	Progress report, containing progress detail of Nipan Dam dewatering and sludge treatment preparations	30 March 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
25	Nipan Dam: Progress Report	Progress report submission	Progress report, containing progress detail of Nipan Dam sludge treatment	30 August 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
26	Nipan Dam: Compliance Conversion	Compliance Conversion / Engineering Plan to EHP	Milestone Report: Compliance Conversion / Engineering Plan	31 March 2015 (C)	n/a	Completed: KPI met by Amendment C Completion Date
27	Nipan Dam: Compliance Conversion	Progress report submission	Progress report, containing progress detail of Nipan Dam compliance conversion project engineering and execution plan	31 October 2015 (C)	n/a	Completed: KPI met by Amendment C Completion Date
28	Nipan Dam: Full Rehabilitation Planning	Full dam site rehabilitation procedure development	Remediation method to be based on analogue site analysis results and Nipan Dam rehabilitation process analysis (previously completed)	31 May 2016 (D)	n/a	Completed: KPI met by Amendment C Completion Date
29	Nipan Dam: Rehabilitation	Progress report submission	Progress report, containing detail of Nipan Dam rehabilitation program status	31 August 2016 (D)	n/a	Completed: KPI met by Amendment C Completion Date

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A),(B) (C) & (D) Completion Dates	Amendment (E) Completion Date	Comment / Update Status
30	Nipan Dam: Rehabilitation Works Physical Completion and Completion Report	Full rehabilitation and remediation of Dawson Dam	Milestone Report: Containing: Submit soil contamination investigation, rehabilitation report, and contamination validation sampling results landholder agreement; or Written notification of completed earthworks and supporting photographs	31 December 2016 (D)	n/a	On schedule
31	Dawson Dam: Engineering Design	Progress report submission	Progress report, containing detail of Dawson Dam engineering design status	30 September 2013 (A)	n/a	Completed: KPI met by Amendment A Completion Date
32	Dawson Dam: Engineering Design	Progress report submission	Progress report, containing detail of Dawson Dam engineering design status	31 January 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
33	Dawson Dam: Engineering Design	Finalise engineering design and construction plan	Report, containing detail of Dawson Dam engineering design and construction plan	31 March 2014 (A)	n/a	Completed: KPI met by Amendment A Completion Date
34	Dawson Dam: Rehabilitation	Progress report submission	Progress report, containing detail of Dawson Dam rehabilitation program status	30 Sep 2014 (B)	n/a	Completed: KPI met by Amendment B Completion Date

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A),(B) (C) & (D) Completion Dates	Amendment (E) Completion Date	Comment / Update Status
35	Dawson Dam: Full Rehabilitation Planning	Full dam site rehabilitation procedure development	Further analysis of analogue sites (over and above initial sediment sampling) currently in progress Field survey and deep soil profile sampling conducted 14-16 May 2014 Prior soil remediation trial resulted in not proceeding with remediation method Remediation method to be based on analogue site analysis results and Nipan Dam rehabilitation process analysis	31 Dec 2014 (B)	n/a	Completed: KPI met by Amendment B Completion Date
36	Dawson Dam: Rehabilitation	Progress report submission	Progress report, containing detail of Dawson Dam rehabilitation program status	30 March 2015 (B)	n/a	Completed: KPI met by Amendment B Completion Date
37	Dawson Dam: Divert Field CSG Water from Dam	CSG water diverted from Dam	Written notification to DERM	31 May 2016 (D)	n/a	Completed: KPI met by Amendment D Completion Date
38	Dawson Dam: Rehabilitation	Progress report submission	Progress report, containing detail of Dawson Dam rehabilitation program status	30 Sep 2015 (C)	n/a	Completed: KPI met by Amendment B Completion Date
39	Dawson Dam: Remove Remaining CSG Water from Dam	Removal of Remaining CSG Water from Dam	Written notification and supporting photographs submitted to DERM	31 September 2016 (D)	31 July 2017 (E)	Updated Completion Date

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A),(B) (C) & (D) Completion Dates	Amendment (E) Completion Date	Comment / Update Status
40	Dawson Dam: Rehabilitation	Progress report submission	Progress report, containing detail of Dawson Dam rehabilitation program status	n/a	31 March 2016	New
41	Dawson Dam: Rehabilitation Works Physical Completion and Completion Report	Full rehabilitation and remediation of Dawson Dam	Milestone Report: Containing: Submit soil contamination investigation, rehabilitation report, and contamination validation sampling results landholder agreement; or Written notification of completed earthworks and supporting photographs	31 December 2016 (D)	31 December 2017 (E)	Updated Completion Date
42	MR30 Evaporation Pond: Contamination Assessment	Contamination assessment report submission	Contamination assessment report, containing detail of pond rehabilitation process.	31 August 2014 (B)	n/a	Completed: KPI met by Amendment B Completion Date
43	MR30 Evaporation Pond: Rehabilitation Works Physical Completion	Complete remediation of MR30 Evaporation Pond Dam so that EA EPPG00783713 Conditions (I9) are met;	Milestone Report: Written notification of completed earthworks and supporting photographs	31 October 2014 (B)	n/a	Completed: KPI met by Amendment B Completion Date
44	MR30 Evaporation Pond: Rehabilitation Works Completion Report	Submit final report to EHP demonstrating the requirements of Condition (I9) have been met.	Milestone Report: Full rehabilitation report, validation sampling results,	15 December 2014 (B)	n/a	Completed: KPI met by Amendment B Completion Date

#	Task / Title	Action	KPI / Detail of Action	Original or Amendment (A),(B) (C) & (D) Completion Dates	Amendment (E) Completion Date	Comment / Update Status
46	Leak Detection Monitoring	Leak detection bores inspected monthly for Nipan and Dawson Dam while water remains in these dams: Nipan Dam Leak Detection Bore 1 (Lat -24.736352; Long 149.998613), Dawson Dam Leak Detection Bore 1 (Lat -24.799224; Long 150.010386), Dawson Dam Leak Detection Bore 1 (Lat -24.798822; Long 150.011907),	The results of this inspection to be reported to EHP by the last business day of the month to advise if the leak detection bores have detected passage of the wetting front through the floor or sides of this dam.	Monthly commencing July 2013 (A)	Commenced / ongoing	Continue monitoring

3. Monitoring Compliance and Reporting

Compliance to the actions of this TEP shall be monitored and reported as detailed in the dates of the compliance table (Table 3).

All progress and milestone reports are provided to the DEHP by the due dates as detailed; in writing with an electronic copy also provided