

PTY LTD ABN: 75 093 540 080

Annual Review

for the

Cudgen Lakes Sand Quarry

1 July 2012 to 30 June 2013

Compiled by:





PTY LTD ABN: 75 093 540 080

Annual Review

for the

Cudgen Lakes Sand Quarry

Compiled for:

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BELLEVUE HILL NSW 2023

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Ref No. 617/27 12 September 2016



TITLE BLOCK

Name of Operation	Cudgen Lakes Sand Quarry
Name of Operator	Not operational
Development consent / project approval #	Project Approval 05_0103
Name of holder of development consent / project approval	Gales-Kingscliff Pty Ltd
Mining Lease #	Not Applicable
Name of holder of mining lease	Not Applicable
Water licence #	30BL179511
Name of holder of water licence	Gales-Kingscliff Pty Ltd
MOP/RMP start date	Not Applicable
MOP/RMP end date	Not Applicable
Annual Review start date	01/07/12
Annual Review end date	30/06/13

I, Stephen Segal, certify that this audit report is a true and accurate record of the compliance status of the Cudgen Lakes Sand Quarry for the period 1 July 2012 to 30 June 2013 and that I am authorised to make this statement of behalf of Gales-Kingscliff Pty Ltd.

Note

- a) The Annual Review is an 'environmental audit' for the purposes of section 122B(2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000.
- b) The Crimes Act 1900 contains other offences relating to false and misleading information: Section 192G (Intention to defraud by false or misleading statement maximum penalty 5 years imprisonment); Section 307A, 307B and 307C (false or misleading application/information/documents maximum penalty 2 years imprisonment or \$22,000, or both).

Name of authorised reporting officer	Stephen Segal	
Title of authorised reporting officer	Managing Director	
Signature of authorised reporting officer	10 Ayrl	
Date	12 September 2016	

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1. STATEMENT OF COMPLIANCE

The compliance status of relevant approvals was reviewed for the reporting period and is summarised in **Table 1.1**. It was determined that there were three non-compliances during the reporting period. The non-compliances recorded during the reporting period have been ranked according to the risk matrix included in **Table 1.2**.

Table 1.1 Statement of Compliance

Were all conditions of the relevant approval(s) complied with?	Yes / No
Project Approval 05_0103	No
Environment Protection Licence 12385	Yes
Water Licence 30BL179511	Yes

Table 1.2 Non-compliances

Relevant Approval	Condition	Condition Description (summary)	Compliance Status	Comment	Where Addressed in Annual Review
PA 05_0103	2(3)	Surrender existing approvals within 18 months of Project Approval.	Non- compliant	DA 96/518 surrendered to (then) DP&I within 18 months. However, DA required to be surrendered to Council.	Section 11, Appendix 1
	5(5)	Submit AEMRs annually from date of Project Approval.	Non- compliant	The 2012/2013 Annual Review was not submitted within the required 12 month timeframe.	Section11, Appendix 1
	5(10)	Within 1 month of the approval of any plans, audit or AEMR, provide a copy to Council and relevant agencies and make available on Company website.	Non- compliant	The approved 2009/2010 AEMR was not placed on the Company website within 1 month of approval.	Section 11, Appendix 1

Compliance Status Key

Risk level	Colour code	Description			
High	Non-	Non-compliance with potential for significant environmental consequences,			
	compliant	regardless of the likelihood of occurrence.			
Medium		Non-compliance with:			
	Non-	potential for serious environmental consequences, but is unlikely to occur;			
	compliant	or			
		potential for moderate environmental consequences, but is likely to occur.			
Low		Non-compliance with:			
	Non-	potential for moderate environmental consequences, but is unlikely to			
	compliant	occur; or			
		potential for low environmental consequences, but is likely to occur.			
Administrative	Non-	Only to be applied where the non-compliance does not result in any risk of			
non-compliance		environmental harm (e.g. submitting a report to government later than			
	compliant	required under approval conditions).			

2. INTRODUCTION

2.1 OVERVIEW OF OPERATIONS

The Cudgen Lakes Sand Quarry is located at Cudgen approximately 1km south of the Tweed River and 8km south of the New South Wales/Queensland Border (see **Figure 2.1**). Project Approval 05_0103 was granted 16 June 2009. The approved layout of the operations is shown in **Figure 2.2** whilst surrounding land ownership, residences and registered groundwater bores are shown in **Figure 2.3**. To date operations have not yet commenced.

2.2 SCOPE AND FORMAT

This Annual Review for the Cudgen Lakes Sand Quarry ("the Quarry") has been compiled by R.W. Corkery & Co. Pty. Limited on behalf of Gales-Kingscliff Pty Ltd ("the Company").

This is the third Annual Review submitted for the Quarry, following one Annual Environmental Management Report, and is applicable for the period 01 July 2012 to 30 June 2013 ("the reporting period"). The information presented within this Annual Review has been compiled based on information compiled by R.W. Corkery & Co. Pty. Limited and provided by the Company.

It should be noted that this Annual Review has been prepared based upon the approval and licencing requirements applicable for the reporting period, however, the report generally follows the format and content requirements identified in the *Annual Review Guideline* dated October 2015 since this applies at the time the report was actually prepared.

2.3 KEY PERSONNEL CONTACT DETAILS

The key personnel contact names, position and phone numbers are as follows.

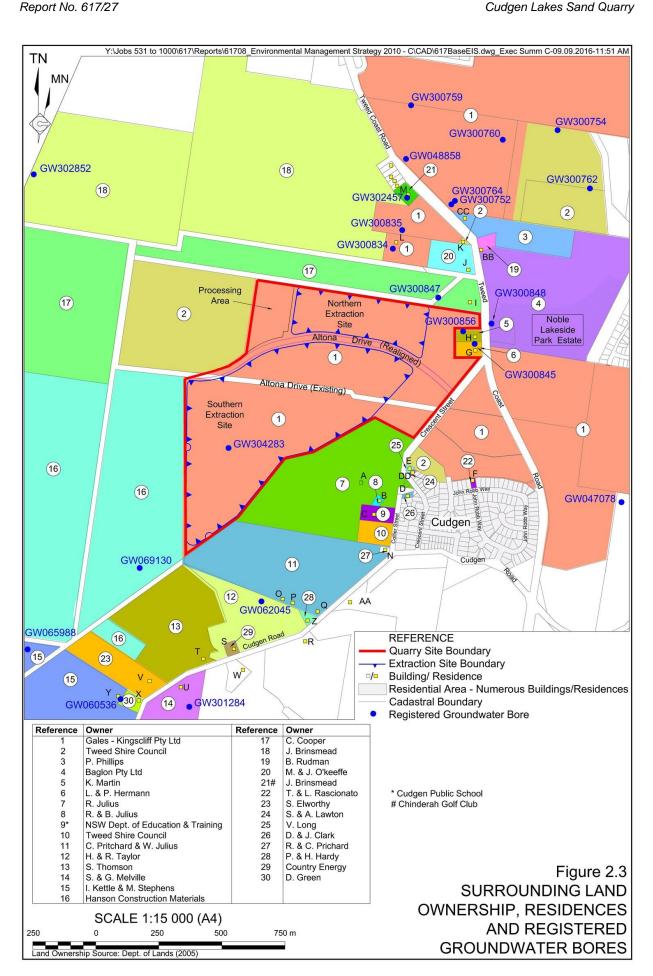
Name	Position	24 Hour Contact
Stephen Segal	Managing Director	0414 322 455
Jeff Holloway	Site Caretaker	0402 427 938

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3. APPROVALS

The Quarry will operate in accordance with the approvals listed in **Table 3.1**. There were no changes or modifications to these approvals during the reporting period.

Table 3.1
Cudgen Lakes Sand Quarry – Consents, Leases and Licences

Consent/Lease/Licence	Issue Date	Expiry Date	Details / Comments
Project Approval 05_0103	16/06/2009	01/07/2029	Issued by the (then) Department of Planning.
Environment Protection Licence 12385	18/11/2005	Not Applicable	Issued by NSW Environment Protection Authority. Renewed annually.
Water Licence 30BL179511	13/10/2008	12/10/2013	Issued by the (then) NSW Department of Water & Energy for DA 96/518.

4. OPERATIONS SUMMARY

4.1 EXTRACTION OPERATIONS

No extraction operations were undertaken during the reporting period. **Table 4.1** provides the production summary.

Table 4.1 Production Summary

Material	Approved limit (specify source)	Previous reporting period (actual)	This reporting period (actual)	Next reporting period (forecast)
Waste Rock / Overburden	NA	0	0	0
ROM Coal / Ore	NA	0	0	0
Coarse Reject	NA	0	0	0
Fine Reject (Tailings)	NA ¹	0	0	0
Saleable Product (transported by road)	300,000t [PA 05_0103 Condition 2(7)]	0	0	0
Total Extraction	650,000m ³ [PA 05_0103 Condition 2(6)]	0	0	0
Imported VENM	45,000t [PA 05_0103 Condition 2(8)]	0	0	0

Notes: 1. Whilst fines will be generated through sand washing and returned to the extraction ponds, there are no approval limits applicable to this material.

4.2 OTHER OPERATIONS DURING THE REPORTING PERIOD

No other operational activities were undertaken during the reporting period.

Non-operational activities during the reporting period included quarterly water quality monitoring of the initial dredge pond (see Section 7). No management plans were finalised during the reporting period.

4.3 NEXT REPORTING PERIOD

Land Preparation and Construction

No land preparation or construction activities are planned during the next reporting period.

Extraction

No extraction activities are planned during the next reporting period.

Rehabilitation

No areas will become available for rehabilitation during the next reporting period.



Monitoring

Quarterly water quality monitoring of the initial dredge pond will continue in accordance with EPL 12385.

Community Consultation and Liaison

No specific community consultation or liaison activities are planned for the next reporting period.

Other Activities

Government agencies will be further consulted regarding the draft management plans with a view to finalising the management plans for approval by the Department of Planning and Infrastructure.

Cudgen Lakes Sand Quarry

5. ACTIONS REQUIRED FROM PREVIOUS ANNUAL REVIEW

The 2012/2013 Annual Review was submitted concurrently with the 2011/2012 Annual Review. Therefore, no actions from the 2011/2012 Annual Review have been raised to date.

6. ENVIRONMENTAL PERFORMANCE

A summary of environmental performance for the principal environmental aspects is provided in **Table 6.1**. Given there were no operational activities, no complaints and no related monitoring of these aspects, no specific management measures were deemed necessary and no trends have been identified.

Table 6.1 Environmental performance

Aspect	Approval criteria / EIS prediction	Performance during the reporting period	Trend/key management implications	Implemented/proposed management actions
Noise	47dB(A) day & evening.	No operational activities were undertaken and no	No trends identifiable. Currently no management	No specific management measures implemented or
	44dB(A) shoulder.	complaints were received.	implications.	currently proposed.
Blasting	Blasting is not an approved activity.	No blasting undertaken.	Nil.	Nil.
Air Quality	$PM_{10} 24hr = 50ug/m^3$	No operational activities were undertaken and no	No trends identifiable. Currently no management	No specific management measures implemented or
	PM_{10} Annual = $30ug/m^3$	complaints were received.	implications.	currently proposed.
	TSP Annual = 90ug/m ³			
	Dep Dust Annual = 4g/m²/month			
Biodiversity	Establish rehabilitation bond.	No operational activities or activities relating to	Currently no management	No specific management measures implemented or
	No significant impacts predicted.	biodiversity aspects occurred.	implications.	currently proposed.
Heritage	Prepare Aboriginal Cultural Heritage Management Plan.	No operational activities occurred and no heritage items were identified or	No trends identifiable. Currently no management implications.	No specific management measures implemented or currently proposed.
	No items of heritage have been located.	disturbed.		

7. WATER MANAGEMENT

Water Licence 30BL179511 was issued under the *Water Act 1912* for operations approved under DA 96/518 and does not specify maximum water take / entitlement volumes. Given that no operational activities occurred during the reporting period and no water was actively removed from the initial dredge pond, no water take has occurred. It is noted that consultation with the NSW Office of Water as part of the Soil and Water Management Plan (prepared under PA 05_0103) confirms that evaporation is not required to be accounted for in the calculated water loss / entitlement for this operation.

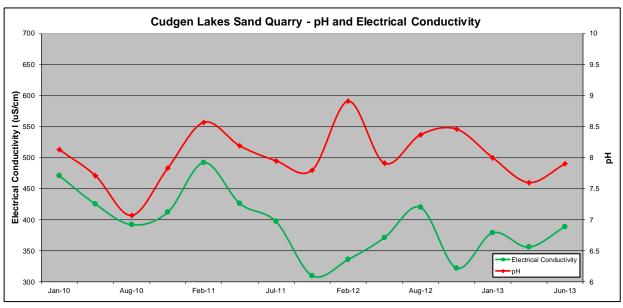
Water quality monitoring within the initial dredge pond (EPL Point $1 - \sec$ **Figure 8.1**) continued during the reporting period in accordance with the requirements of EPL 12385. A summary of the monitoring results is provided in **Table 7.1** and displayed graphically in **Figure 7.1**.

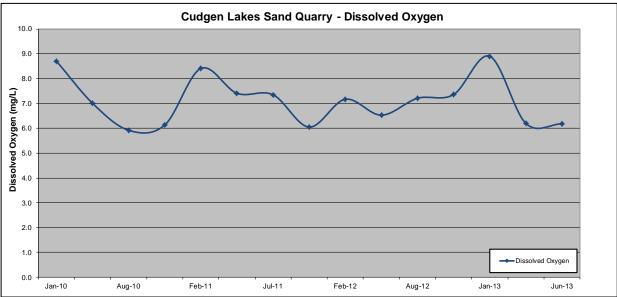
Table 7.1
Water Quality Monitoring Results 2010 – 2013

(Date sampled)*	Dissolved Oxygen	pН	Redox Potential	Salinity	Temperature
Units	mg/L	-	millivolts	uS/cm	°C
EPL 12385 Limits	J -		None Specified	l	-
PA 05_0103 Objectives	>6	6.5-8.5	Not Specified	<3,000	Not Specified
21-Jan-10	8.71	8.13	61	471	25.7
06-Apr-10	7.01	7.71	-31	425	21.3
13-Aug-10	5.92	7.07	-73	392	18.3
22-Oct-10	6.13	7.83	-56	412	23.9
04-Feb-11	8.41	8.57	62	492	27.1
17-May-11	7.41	8.19	31	426	23.1
07-Jul-11	7.35	7.95	-10	397	19.7
17-Oct-11	6.05	7.8	18	310	24.7
16-Feb-12	7.17	8.91	77	336	28.7
01-May-12	6.53	7.91	62	371	22.8
23-Aug-12	7.21	8.37	83	420	21.7
30-Oct-12	7.36	8.46	71	322	26.2
23-Jan-13	8.90	8.00	81	379	29.2
02-Apr-13	6.20	7.60	68	356	23.7
21-Jun-13	6.18	7.90	57	389	21.7
Average	7.10	8.03	33	393	23.9
Minimum	5.92	7.07	-73	310	18.3
Maximum	8.90	8.91	83	492	29.2
Red values indicate exceedar			*All samples a	re measured using	g field instrumentation
Grey shaded results relevant	to this reporting p	eriod			

During the reporting period all values remained within specified objectives.

There appears to be an approximately seasonal trend for all measured parameters, however, as no operations were undertaken, there is no influence on the parameters from quarry activities.





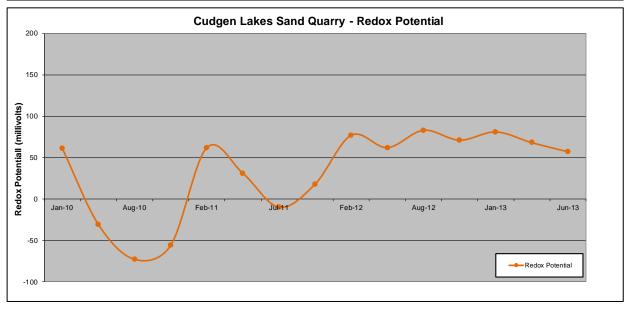


Figure 7.1 Water Quality Monitoring 2010 - 2013



8. REHABILITATION

8.1 REHABILITATION PERFORMANCE DURING THE REPORTING **PERIOD**

Figure 8.1 shows the status of disturbance and rehabilitation at the end of the reporting period whilst **Table 8.1** provides a summary of the disturbance and rehabilitation areas.

Table 8.1 **Rehabilitation Summary**

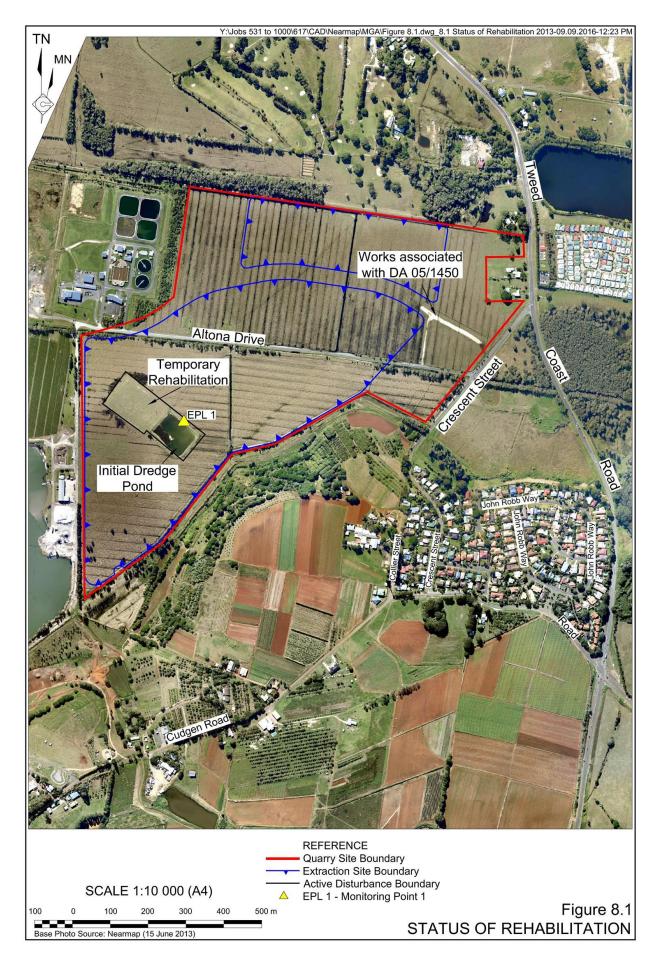
Quarry Area Type	Previous Reporting Period (Actual)	This Reporting Period (Actual)	Next Reporting Period (Forecast)	
	Year 3 (ha)	Year 4 (ha)	Year 5 (ha)	
Total Quarry footprint	2.5 ¹	2.5 ¹	2.5 ¹	
Total active disturbance	2.5 ¹	2.5 ¹	2.5 ¹	
Land being prepared for rehabilitation	0	0	0	
Land under active rehabilitation	0	0	0	
Completed rehabilitation	0	0	0	
Notes: 1. Relates to initial dredge pond and gras	sed sand stockpile completed d	uring 2006 under DA 96/518	3 (now surrendered).	

Disturbance on site currently consists of the initial dredge pond and grassed (temporarily rehabilitated) sand stockpile completed under DA 96/518. No temporary or permanent rehabilitation activities were undertaken during the reporting period. A small area of disturbance is also present in relation to the physical commencement of DA 05/1450 for the realignment of Altona Drive. As these works are managed under separate approval, they are not further discussed in this report.

8.2 **ACTIONS FOR THE NEXT REPORTING PERIOD**

No specific rehabilitation actions or trials are planned for the next reporting period and no areas will become available for final rehabilitation.

Cudgen Lakes Sand Quarry



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9. COMMUNITY

No complaints were received during the reporting period and no complaints have been received in previous reporting periods.

No specific community engagement activities or actions occurred during the reporting period in relation to the Quarry.

10. INDEPENDENT AUDIT

No independent audit was undertaken during the reporting period. The first independent audit is required within 2 years of the commencement of quarrying operations. Quarry operations did not commence during the reporting period and are not planned to commence during the next reporting period.

11. INCIDENTS AND NON-COMPLIANCES DURING THE REPORTING PERIOD

During the reporting period there were no:

- reportable incidents or exceedances; or
- official cautions, warning letters, penalty notices or prosecution proceedings.

A total of three non-compliances were recorded against Project Approval 05_0103 (see **Table 1.2**). Further detail relating to these non-compliances is provided as follows.

Condition 2(3) – Surrender Existing Approvals

The Company surrendered DA 96/518 to the (then) NSW Department of Planning & Infrastructure on 14/12/10 (i.e. within the required 18 months). However, the Department requested that the development consent be surrendered to Tweed Shire Council. Correspondence from Council dated 07/09/16 confirms that Council holds no record of the development consent being surrendered and the Company held no record. Therefore the Company also formally surrendered DA 96/518 to Council on 12/09/16.

Condition 5(5) – Submit AEMRs Annually from Date of Approval

The 2012/2013 Annual Review (this report) was not submitted within the required 12 month timeframe. The report was submitted 12/09/16 and was formatted to comply with the October 2015 *Annual Review Guideline*.

Condition 5(10) – Circulation / Website Publishing of Approved Plans / Reports

The approved 2009/2010 AEMR was circulated within the required timeframe, however, it was not placed on the Company website within 1 month of approval. The report has now been placed on the Company website.

12. ACTIVITIES TO BE COMPLETED IN THE NEXT REPORTING PERIOD

As discussed in Section 4.3, no land preparation, construction, quarry operations, rehabilitation activities or community engagement activities are planned during the next reporting period.

Quarterly water quality monitoring of the initial dredge pond will continue in accordance with EPL 12385.

No other specific measures are currently deemed necessary to improve environmental or community performance.

Appendices

(No. of pages including blank pages = 54)

Appendix 1: Compliance Review

GALES-KINGSCLIFF PTY LTDCudgen Lakes Sand Quarry Appendices

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Appendix 1

Compliance Review

Table A: Project Approval 05_0103

Table B: Statement of Commitments

Table C: Environment Protection Licence 12385

Table D: Water Licence 30BL179511

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GALES-KINGSCLIFF PTY LTD

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Cudgen Lakes Sand Quarry Appendix 1

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Table A Compliance Review – Project Approval 05_0103

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-		1	Pa	age 1 of 26
Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
	SCHEDULE 2 ADMII	NISTRATIVE C	ONDITIONS	
Obliga	ation to Minimise Harm to the Environment			
1.	The Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any harm to the environment that may result from the construction, operation, or rehabilitation of the project.	Not Yet Applicable	Operations have not yet commenced.	A, D
Surre	nder of Consents			
2.	Within 18 months of the date of this approval, or as otherwise approved by the Director-General, the Proponent shall surrender all previous development consents for sand extraction on Lot 2 DP 216705 and Lot 21 DP 1082482, to the satisfaction of the Director-General.	Administrative Non- Compliance	PA 05_0103 issued 16/06/09. Correspondence dated 14/12/10 to the, then, NSW Department of Planning & Infrastructure surrendering DA 96/518 (within 18 months). DP&I requested DA to be surrendered to Council. Further correspondence to Council dated 12/09/16 also surrendering DA 96/518 to Council.	D
Terms	s of Approval			
4.	The Proponent shall carry out the project generally in accordance with the: (a) EA; (b) statement of commitments; and (c) conditions of this approval. Note: The general layout of the project is shown in the figure in Appendix 1. If there is any inconsistency between the documents referred to above, the conditions of this approval shall prevail to the extent of the inconsistency. The Proponent shall comply with any reasonable requirement/s of the Director-General arising from the Department's assessment of: (a) any reports, plans, programs or correspondence that are submitted in accordance with this approval; and (b) the implementation of any actions or	Not Yet Applicable Compliant	Comments provided by the Department on draft management plans required by this approval were incorporated into the final approved management plans to the Department's satisfaction.	A, D
	measures contained in these reports, plans, programs or correspondence.			
Limits	s on Approval			
5.	Sand extraction operations may take place until 1 July 2029.	Noted	-	-
	Note: Under this Approval, the Proponent is required to rehabilitate and revegetate the site to the satisfaction of the Director-General. Consequently this approval will continue to apply in all other respects other than the right to conduct quarrying operations until the site has been rehabilitated and revegetated to a satisfactory standard.			
* D = D		sed by Company	O = On-site O	bserva



Table A (Cont'd) Compliance Review – Project Approval 05_0103

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		1	Pa	age 2 of 26
Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
	SCHEDULE 2 ADMINIST	RATIVE CON	IDITIONS (Cont'd)	
Limits	on Approval (Cont'd)			
6.	The Proponent shall not remove from the extraction area, by any means, more than 650,000 cubic metres of material a year.	Compliant	Extraction operations have not yet commenced.	A, D
7.	The Proponent shall not transport from the extraction area by road more than 300,000 tonnes of material per year.	Compliant	Extraction operations have not yet commenced.	A, D
8.	The Proponent shall not import to the extraction area more than 45,000 tonnes per year of VENM. The Proponent shall ensure that material imported in compliance with this condition does not contain waste.	Compliant	Importation of VENM has not yet commenced.	А
Mana	gement Plans/Monitoring Programs			
9.	With the prior approval of the Director- General, the Proponent may submit any management plan or monitoring program required by this approval on a progressive basis.	Compliant	Approval to defer the submission of the management plans to 14 February 2011.	D
Prote	ction of Public Infrastructure			
10.	 The Proponent shall: a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the project; and b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the project. Note: This condition does not apply where such costs have already been provided by the Proponent through applicable road contribution or S94 plans (see Condition 14 below). 	Not Applicable	No repairs or relocations of infrastructure have been required to date.	A
Comp	liance with Relevant Legislation and Other A	pprovals		
11.	The Proponent shall comply with all relevant Australian Standards and Codes (including Building Code of Australia) and obtain all necessary approvals required by State and Commonwealth legislation in undertaking the project. Notes: • Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for any proposed	Not Yet Applicable	Operations have not yet commenced. Therefore, no additional approvals were required during the reporting period.	A, D
* D = F	 building works. Part 8 of the EP&A Regulation sets out the requirements for the certification of the project. Documentation sighted 	sed by Company	O = On-site O	bservation

Table A (Cont'd) Compliance Review – Project Approval 05_0103

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			ra I	ge 3 of 26
Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
	SCHEDULE 2 ADMINIST	RATIVE CON	IDITIONS (Cont'd)	
Demo	lition			
12.	The Proponent shall ensure that all demolition work is carried out in accordance with AS 2601-2001: The Demolition of Structures, or its latest version.	Not Yet Applicable	No demolition work has been required to date.	A
Opera	tion of Plant and Equipment			
13	The Proponent shall ensure that all plant and equipment used at the site is: a) maintained in a proper and efficient condition; and b) operated in a proper and efficient	Not Yet Applicable	No plant or equipment currently utilised on site.	А
	manner.			
00000	on 94 Contributions			
14.	Prior to carrying out any development, or as otherwise agreed by Council, the Proponent shall pay Council \$91,761.00 in accordance with Section 7.1 of Council's <i>Tweed Road Contribution Plan No.4 Version 5.1</i> and \$399.40 in accordance with Council's <i>Section 94 Plan No.18</i> .	Not Yet Applicable	Development has not yet commenced.	A, D
15.	After submission of each AEMR and on receipt of an invoice from Council, the Proponent shall pay to Council an amount calculated by Council to be the Proponent's contribution under Section 7.2 of Council's Tweed Road Contribution Plan No.4 Version 5.1 in respect of the heavy haulage of VENM to the site.	Not Yet Applicable	No VENM received to date.	А
	SCHEDULE 3 ENVIRONMENT	TAL PERFOR	RMANCE CONDITIONS	
GENE	RAL EXTRACTION AND PROCESSING PROV	ISIONS		
Identi	fication of Boundaries			
1.	Within 1 month of the date of approval of the Landscape Management Plan (see condition 28 below), the Proponent shall: a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction;	Not Yet Applicable	A draft of the Landscape Management Plan was previously submitted d; however, approval has not yet been issued.	D
	 b) submit a survey plan of these boundaries to the Director-General; and c) ensure that these boundaries are clearly marked at all times in a permanent manner that allows operating staff and inspecting officers to clearly identify those limits. 			
* D = D	Note: The limit of extraction includes the areas described in the EA and shown conceptually on the plans in Appendix 1.	sed by Company	O = On-site Ob	eservation

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Table A (Cont'd) Compliance Review – Project Approval 05_0103

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Cond.	Condition	onal Require	ment	Compliance	Comments	Basis*
NO.	SCHEDII	II E 3 ENIVID	ONMENTAL	DEDEODMAI	NCE CONDITIONS (Cont'd)	
Pipelii		LL 3 LIVIII	ONNENTAL	I LINI ONIMA	NOL CONDITIONS (COIL d)	
2.	pipeline; b) evidence that native vegets c) evidence that for filling; and d) in relation to (i) evidence from the following has been accordan (ii) details of protect verinstallation and (iii) details of consultation	ridors (shown e Proponent softhe Director- lan of the state of this route do ation clearing; at the fill sites of the eastern property of the eastern property of the this route of the eastern property of the eastern proper	conceptually shall submit General: route of the res not require have approval ipeline: station cleared ne corridor is approval; asures to ng pipeline and removal; eveloped in C, to provide	Not Yet Applicable	Work to install pipelines has not yet commenced.	A, D
NOISE Impac 3.		shall ensure t project during in Condition	hat the noise the operating 5, does not	Not Yet Applicable	Operations have not yet commenced.	A, D
	Receiver Location Residences on	Day & Evening LA _{eq(15 min)} dB(A)	Shoulder LA _{eq(15 min)} dB(A)			
	requirements of Policy. The noise limits has an agreement the residence/lile levels, and the	ed by the proceed by the NSW Is do not apply in the the released to generate writing of the writing of the	oject is to be the the relevant ndustrial Noise of the Proponent evant owner/s of the higher noise as advised the electrons of the	sed by Company		

Table A (Cont'd) Compliance Review – Project Approval 05_0103

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Cond.	On ditional Barrian and	0			Page 5 of 26
No.	Conditional Requirement	Compliance		Comments	Basis*
	SCHEDULE 3 ENVIRONMENT	AL PERFORMA	NCE CON	DITIONS (Cont'd)	
	lative Noise Criteria		I		
4.	The Proponent shall take all reasonable at feasible measures to ensure that noise generated by the project combined with th noise generated by other industrial development does not exceed the followin amenity criteria on any privately owned lar to the satisfaction of the Director-General: • L _{Aeq (11 hour)} 50 dB(A) – Day;	Applicable e g	Operation commenc	s have not yet ed.	A, D
	 L_{Aeq (4 hour)} 45 dB(A) – Evening; and 				
	 L_{Aeq(9 hour)} 40 dB(A) – Night. 				
Hours	of Operation				
5.	The Proponent shall comply with the	Not Yet	Operation	s have not yet	A, D
	operating hours in Table 2.	Applicable	commenc		,
	Activity	Day		Time	
	Site establishment, sand or soil	Monday – Fr		7:00am to 6:00pm	
	extraction by excavator, dry processing, product transport by	Saturday		7:00am to 1:00pm	
	road, VENM receipts, other quarry related activities, maintenance (if audible at neighbouring residences)	Sunday and F Holidays		Nil	
	Sand extraction by dredging and	Monday – Fr	iday	7:00am to 10:00pm	
	pumping to the processing plant,	Saturday		7:00am to 4:00pm	
	wet processing.	Sunday and F Holidays		Nil	
	Sand extraction by dredging and	Monday – Fr	-	7:00am to 6:30pm	
	pumping to fill sites.	Saturday		7:00am to 1:00pm	
		Sunday and F Holidays		Nil	
	Operation of dredge to fill pipeline	Monday – Fr		6.30am to 7.00pm	
	with water or pipeline flushing	Saturday		6.30am to 1.30pm	
		Sunday and F Holidays	Public	Nil	
	Maintenance (if inaudible at neighbouring residences)	Any day		Any time	
	Table 2: Operating Hours				
Contin	nuous Improvement				
6.	The Proponent shall:	Not Yet		s have not yet	A, D
	(a) implement all reasonable and feasible best practice noise mitigation measur		commenc	ed.	
	(b) investigate ways to reduce the noise generated by the project; and				
	(c) report on these investigations and the implementation and effectiveness of these measures in the AEMR, to the)			
+5 -	satisfaction of the Director-General.	A 4 4 2 2 4 4 2 2			01:
^ D = D	ocumentation sighted A =	Advised by Company	1	O = On-site (Observation

Table A (Cont'd) Compliance Review – Project Approval 05_0103

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Cond.							9 0 01 20
No.	Condition	al Requirem	ent	Compliance		Comments	Basis*
	SCHEDUL	E 3 ENVIRC	NMENTAL	PERFORMA	NCE CO	NDITIONS (Cont'd)	
Noise	Monitoring Program	1					
7.	The Proponent shal Noise Monitoring P the satisfaction of the program must: a) be submitted to approval priodevelopment o	rogram for the Director-Go the Director to carrying	ne project to eneral. This r-General fo	Applicable	A draft	ns have not yet commenced. Noise Monitoring Program mitted to the Department	A, D
	b) provide detai performance of monitored, including location • Resident • Resident	Is of how of the project luding monit ons: ce G; ce DD;	ct would be)		of the draft Noise g Program.	
	Residen	ce B; and ce O, and					
	c) include a nois evaluating con noise limits in t	npliance with his approval.	the relevan	t		of the draft Noise g Program.	
	Note: For more info locations see Appendi		he monitoring	7			
	JALITY						
	t Assessment Criter			. N. O.			
8.	The Proponent significant generated by the exceedances of the to 5 at any privately	project does criteria listed	s not cause	Applicable	Operation	ns have not yet commenced.	A, D
	Pollutant	Averaging Period	Criterion				
	Particulate matter <10µm (PM ₁₀)	24 hour	50μg/m ³				
	Table 3: Short Terr Criteria for Particula		essment				
	Pollutant	Averaging period	Criterion				
	Total suspended particulate (TSP) matter	Annual	90 μg/m ³				
	Particulate matter < 10 µm (PM ₁₀)	Annual	30 µg/m ³				
	Table 4: Long Tern Criteria for Particula		essment				
	Pollutant	Averaging	g period	Maximum incr deposited dus	st level	Maximum total deposited dust level	
	Deposited dust	Annu	ıal	2 g/m²/mo	nth	4 g/m ² /month	
	Table 5: Long Tern Criteria for Deposite		essment				
* D = D	ocumentation sighted		A = Adv	rised by Company	,	O = On-site Obs	servation

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		1		1
Cond.	Conditional Requirement	Compliance	Comments	Basis*
No.				
	SCHEDULE 3 ENVIRONMENTAL	PERFORMA	NCE CONDITIONS (Cont'd)	
AIR Q	UALITY			
Impac	t Assessment Criteria (Cont'd)			
	Note: Deposited dust is assessed as insoluble solids as defined by Standards Australia AS/NZS 3580.10.1-2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulates - Deposited Matter - Gravimetric Method.			
Dust I	Monitoring Program			
9.	The Proponent shall prepare and implement a Dust Monitoring Program for the project to the satisfaction of the Director-General. This program must:	Not Yet Applicable	Operations have not yet commenced.	D
	a) be submitted to the Director-General for approval prior to carrying out any development on the site; and		A draft Dust Monitoring Program was submitted to the Department 13/12/10.	
	b) include details of how the air quality performance of the project would be monitored, and include a protocol for evaluating compliance with the relevant air quality criteria in this approval.		Sections 3, 5 and 6 of the draft Air Quality Monitoring Program.	
SOIL	AND WATER			
Disch	arges			
10.	Except as may be expressly provided for by an EPL, the Proponent shall not discharge any water from the project or ancillary operational areas. The Proponent shall ensure that the extraction pits subject to sand excavation are maintained and operated to prevent discharges of any surface water.	Compliant	No discharges have occurred from the initial dredge pond created under former DA 96/518. No further extraction operations have occurred to date.	A
* D = D	Occumentation sighted A = Advis	sed by Company	O = On-site Ob	servation



Report No. 617/27

Cudgen Lakes Sand Quarry Appendix 1

Table A (Cont'd) Compliance Review – Project Approval 05_0103

Compliance TAL PERFORMA Compliant Per Compliant The total compliant The total compliant NTU pH mg/L µS/cm mg/L µg/L Median No./100n Median No./100n	Whilst slig sample pi existing ir considere condition, objectives	ght exceedance of one H was recorded within the nitial dredge pond, it is ed that the intent of the , 'aiming' to meet the s, has been met. Water Quality Objectives 5 - 20 6.5 - 8.5 10 <3,000 >6	D
Unit of Measur NTU pH mg/L µS/cm mg/L µg/L Median No./100n	Whilst slig sample pl existing ir considere condition, objectives	ght exceedance of one H was recorded within the nitial dredge pond, it is ed that the intent of the , 'aiming' to meet the s, has been met. Water Quality Objectives 5 - 20 6.5 - 8.5 10 <3,000	D
he t ved Unit of Measur NTU pH mg/L μS/cm mg/L μg/L Median No./100n	sample plexisting in considere condition, objectives	H was recorded within the nitial dredge pond, it is ed that the intent of the draining to meet the s, has been met. Water Quality Objectives 5 - 20 6.5 - 8.5 10 <3,000	D
NTU pH mg/L μS/cm mg/L μg/L Median No./100n	re	0bjectives 5 - 20 6.5 - 8.5 10 <3,000	
pH mg/L μS/cm mg/L μg/L Median No./100n		5 - 20 6.5 - 8.5 10 <3,000	
pH mg/L μS/cm mg/L μg/L Median No./100n		6.5 – 8.5 10 <3,000	
mg/L μS/cm mg/L μg/L Median No./100n		10 <3,000	
μS/cm mg/L μg/L Median No./100n		<3,000	
mg/L μg/L Median No./100n			
μg/L Median No./100n			
Median No./100n		2-10	
	nl	<1000	
		<230	
. of cells/mL (M.aerumm ³ /L (total biovolum	uginosa)	<50,000 <4	
•		<500	
	i	-	
	i		
	i		
	i		
	i		
	i	-	
	i		
	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	mg/L

A = Advised by Company

O = On-site Observation

* D = Documentation sighted

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		1	Pa	ge 9 of 26			
Cond. No.	Conditional Requirement	Compliance	Comments	Basis*			
	SCHEDULE 3 ENVIRONMENTAL	PERFORMA	NCE CONDITIONS (Cont'd)				
PASS	PASS Fines Management						
12.	The Proponent shall ensure that all excavated PASS fines material is returned to below the watertable as soon as possible to prevent oxidation, unless adequately neutralised in accordance with methods approved under the Soil and Water Management Plan (see condition 0 below).	Not Yet Applicable	Extraction and processing operations have not yet commenced.	A, D			
13.	The Proponent must not remove material from the site that: a) has a Chromium reducible Sulfur level exceeding 0.03% Sulfur; or b) contains a pH less than 5.5 in 1:5 water suspension.	Not Yet Applicable	Extraction operations have not yet commenced.	A, D			
14.	The Proponent shall ensure that PASS material to be interred in the excavation is discharged into the pond at a depth of no less than 3 metres from the water surface, and that all fines are deposited to a final depth of at least 8 metres below the water surface, unless an alternative method is approved by DWE and the Director-General. Note: Material that would settle to a depth of at least 8 metres may be placed in the pond at a depth of less than 3 metres by excavator or similar equipment.	Not Yet Applicable	Extraction and internment operations have not yet commenced.	A, D			
Flood	Management						
15.	All earthworks, including drainage and bunding works, shall be contained wholly within the site.	Compliant	The existing initial dredge pond and associated bunding is contained wholly within the site.	O, D			
16.	The Proponent shall cease sand extraction and processing activities not less than 24 hours prior to the commencement of overflow from any extraction pond or as soon as notification is received of an impending flood, if notification is provided less than 24 hours prior. No sand extraction or processing shall occur while an extraction pond is overflowing.	Not Yet Applicable	No dredging occurred during the reporting period.	A			
17.	The Proponent shall ensure that the flood storage capacity of the site is not less than the pre-existing flood storage capacity at all stages of the project. Details of the available flood storage capacity shall be reported in each AEMR.	Not Yet Applicable	Operations under this approval have not yet commenced.	A, D			
18.	The top of the earth bunding around the northern and southern extraction ponds shall not exceed 1.8 m AHD. Spillways shall be provided at the eastern and western extents of each bund and shall be a minimum of 50 m wide and not exceed 1.3 m AHD. Bunds and spillways shall be suitably surfaced (for example grassed or rock lined) to avoid scour and erosion during storm and flood events.	Not Yet Applicable	The bunding has not yet been constructed. O = On-site Ob	A, D			

Cudgen Lakes Sand Quarry Appendix 1

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Cond.			Ĭ	5 10 01 20
No.	Conditional Requirement	Compliance	Comments	Basis*
	SCHEDULE 3 ENVIRONMENTAL	PERFORMAI	NCE CONDITIONS (Cont'd)	
Manag	gement and Monitoring			
19.	The Proponent shall prepare and implement a Soil and Water Management Plan for the project to the satisfaction of the Director-General. This plan must:	Not Yet Applicable	Operations have not yet commenced.	A, D
	a) be prepared in consultation with DWE and DECC;		A draft Soil and Water Management Plan (SWMP) was submitted to DWE and DECC 06/02/11 for review and comment. A revised draft was also submitted to NOW 10/08/11.	
	b) include a:			
	Water Balance;		Section 2.4 of the SWMP	
	• Erosion and Sediment Control Plan;		Section 3 of the SWMP	
	Acid Sulfate Soil Management Plan;		Section 4 of the SWMP	
	Blue-Green Algae Management Plan;		Section 5 of the SWMP	
	 Surface Water Monitoring Program; and 		Section 6 of the SWMP	
	 Groundwater Monitoring Program; and 		Section 7 of the SWMP	
	c) be submitted to the Director-General prior to starting quarrying operations, and prior to carrying out any development on the site in the case of the Erosion and Sediment Control Plan.		Operations have not yet commenced.	
20.	The Water Balance shall include:	Compliant		D
	 a) details of all water extracted, transferred, used and/or discharged by the quarry; 		Section 2.3 of SWMP.	
	 the source of all water collected or stored on the site, including rainfall, stormwater and groundwater; and 		Section 2.2 of SWMP.	
	 measures to minimise water use or water loss by the project. 		Section 2.5 of SWMP.	
* D = D	ocumentation sighted A = Advis	sed by Company	O = On-site Ob	servation

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Appendix 1

Cond.	Conditional Postviroment	Compliance		Basis*
No.	Conditional Requirement	Compliance	Comments	Dasis
	SCHEDULE 3 ENVIRONMENTAL	PERFORMAI	NCE CONDITIONS (Cont'd)	
Manag	ement and Monitoring (Cont'd)			
21.	The Erosion and Sediment Control Plan shall:	Compliant		D
	a) be consistent with the relevant requirements of Managing Urban Stormwater: Soils and Construction, Volume 1, 4 th Edition, 2004 (Landcom), and Council's codes including its Code of Practice for Soil and Water Management on Construction Sites, Development Design Specification D7 – Stormwater Quality and Tweed Urban Stormwater Quality Management Plan, except that should an inconsistency occur between these documents, the higher standard shall apply;		Section 3.3 of SWMP.	
	 identify activities that could cause soil erosion and generate sediment; 		Section 3.3 of SWMP.	
	 describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters; 		Section 3.3 of SWMP.	
	 d) describe the location, function, and capacity of erosion and sediment control structures; and 		Section 3.3 of SWMP.	
	e) describe what measures would be implemented to maintain these structures over time.		Section 3.4 of SWMP.	
22.	The Acid Sulfate Soil Management Plan shall:	Compliant		D
	 a) be consistent with the NSW Acid Sulphate Soil Advisory Committee's Acid Sulfate Soil Manual; and 		Section 4.1 of SWMP.	
	 define procedures for managing the potential acid sulfate soils on the site, including sample testing and procedures. 		Sections 4.3 and 4.4 of SWMP.	
* D = D	ocumentation sighted A = Advis	sed by Company	O = On-site Ob	servation



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Cond.		Conditional Requirement	Compliance	Ĭ	Basis*
No.		·	<u> </u>		Dasis
		SCHEDULE 3 ENVIRONMENTAL	PERFORMAI	NCE CONDITIONS (Cont'd)	
Manag		nt and Monitoring (Cont'd)			1
23.	The sha	Blue-Green Algae Management Plan II:	Compliant		D
	a)	be prepared by a suitably qualified blue-green algae expert, whose appointment has been approved by the Director-General;		The Blue-Green Algae Management Plan was prepared in conjunction with Dr John Runcie, who was approved by DP&I on 03/02/11.	
	b)	be consistent with extant guidelines for blue-green algae management including the NHMRC's Guidelines for Managing Risks in Recreational Water,		Section 5.3 of the SWMP.	
	c)	describe the measures that would be implemented to prevent and control the sources of algal blooms over the short, medium and long term; and		Section 5.8 of the SWMP.	
	d)	define procedures for the management and notification of identified algal blooms.		Sections 5.5, 5.6, 5.7, 5.8 and 5.10 of the SWMP.	
24.		Surface Water Monitoring Program shall ude:	Compliant		D
	a)	detailed baseline data on surface water quality;		Section 6.3 of the SWMP.	
	b)	surface water impact assessment criteria;		Section 6.4 of the SWMP.	
	c)	a program to monitor surface water levels and quality;		Sections 6.5 and 6.6 of the SWMP.	
	d)	a program to manage any water releases from the site;		Section 6.8 of the SWMP.	
	e)	a program to monitor bank and bed stability; and		Section 3.4 of the SWMP.	
	f)	a protocol for the investigation, notification and mitigation of identified exceedances of the surface water impact assessment criteria.		Sections 6.7 and 6.9 of the SWMP.	
* D = D	ocume	entation sighted A = Advis	sed by Company	O = On-site Ob	servation

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1		1	rai Pai	ge 13 of 26
Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
	SCHEDULE 3 ENVIRONMENTAL	PERFORMAI	NCE CONDITIONS (Cont'd)	
Manag	gement and Monitoring (Cont'd)			
25.	The Groundwater Monitoring Program shall include:	Compliant		D
	a) detailed baseline data on groundwater levels and quality, based on statistical analysis;		Section 7.3 of the SWMP.	
	b) groundwater impact assessment criteria;		Section 7.4 of the SWMP.	
	c) a program to monitor groundwater levels and quality;		Section 7.5 of the SWMP.	
	d) a program to monitor groundwater level effects on groundwater dependent vegetation, and on groundwater supply to adjoining properties;		Section 7.5 of the SWMP.	
	e) a protocol for the investigation, notification and mitigation of identified exceedances of the groundwater impact assessment criteria; and		Section 7.6 of the SWMP.	
	f) a protocol for making good any adverse effect of changes to groundwater levels or quality associated with the project on water use on surrounding properties.		Section 7.6 of the SWMP.	
Pipelii	ne Management			
26.	For the life of the pipelines, the Proponent shall maintain the pipelines, ensuring that any leaks or maintenance issues are detected and repaired to the satisfaction of the Director-General.	Not Yet Applicable	Pipelines not yet installed.	A, D
REHA	BILITATION AND LANDSCAPING			
Rehab	pilitation			
27.	The Proponent shall progressively rehabilitate the site to the satisfaction of the Director-General.	Not Yet Applicable	Operations have not yet commenced.	A, D
* D = D	ocumentation sighted A = Advis	sed by Company	O = On-site O	bservation

Table A (Cont'd) Compliance Review – Project Approval 05_0103

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Cond.	Conditional Requirement	Compliance		Basis*
No.	<u> </u>			Buoio
	SCHEDULE 3 ENVIRONMENTAL	PERFORMAI	NCE CONDITIONS (Cont'd)	
	cape Management Plan			T
28.	The Proponent shall prepare and implement a Landscape Management Plan for the project to the satisfaction of the Director-General. This plan must:	Not Yet Applicable	Operations have not yet commenced.	A, D
	a) be prepared:			
	 by suitably qualified consultants, including a specialist hydrologist, coastal engineer, wetlands ecologist and landscape architect; 		Plan prepared in conjunction with Knobel Consulting and Wetland Care Australia. The Strategic Development Plan was developed in conjunction with Allen Jack and Cottier	
	 in consultation with Council, DWE and DPI-Fisheries; and 		The draft plan was submitted to Council, DWE and DPI Fisheries for review and comment on 09/02/11 and a revised version on 10/08/11.	
	 in accordance with extant guidelines including the DWE's Constructed Wetlands Manual, Volumes 1 and 2 and the DPI's Policy and Guidelines: Aquatic Habitat Management, 1999; 		The Landscape Management Plan was prepared generally in accordance with the relevant guidelines (Section 1).	
	a) be submitted to the Director-General prior to starting quarrying operations on the site; and		Operations have not yet commenced.	
	b) include a:			
	 Rehabilitation Management Plan; and 		Sections 2 and 3 of the Landscape Management Plan.	
	 Long Term Management Strategy. 			
	Note: The Department accepts that the initial Landscape Management Plan may not include the detailed Long Term Management Strategy. However, a conceptual strategy must be included in the initial plan, along with a timetable for augmentation of the strategy with each subsequent review of the plan.			
29.	The Rehabilitation Management Plan must include:	Compliant		D
	(a) the rehabilitation objectives for the site and pipeline corridors;		Section 2.2 of the Landscape Management Plan.	
	(b) a description of the short, medium, and long term measures that would be implemented to:		Section 2.3 of the Landscape Management Plan.	
	 rehabilitate and stabilise the site and pipeline corridors; and 			
	 manage the restored vegetation and wetland habitat established on the site; 			
* D = D	ocumentation sighted A = Advis	sed by Company	O = On-site Ob	servation

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Cond. No.		Conditional Requirement	Compliance	Comments	Basis*
		SCHEDULE 3 ENVIRONMENTAL	PERFORMAI	NCE CONDITIONS (Cont'd)	
Lands	cape	Management Plan (Cont'd)			
	c)	detailed performance and completion criteria for the rehabilitation and stabilisation of the site;		Section 2.5 of the Landscape Management Plan.	
	d)	consideration of outcomes if VENM material received for backfilling is less than optimum;		Section 2.4.6 of the Landscape Management Plan.	
	e)	a detailed description of how the performance of the rehabilitation of the site would be monitored over time to achieve the stated objectives;		Section 2.6 of the Landscape Management Plan.	
	f)	a detailed description of what measures would be implemented over the next 5 years to rehabilitate and manage the landscape of the site and revegetation areas including the procedures to be implemented for:		Sections 2.3 & 2.4 of the Landscape Management Plan.	
		 progressively rehabilitating and stabilising areas disturbed by quarrying; 			
		 implementing revegetation and regeneration within the disturbance areas; 			
		 protecting areas outside the disturbance areas, including vegetation adjoining pipelines; 			
		 managing impacts on fauna, including measures to enable Wallum Froglet to cross the eastern pipeline; 			
		 controlling terrestrial and aquatic weeds and pests; 			
		 controlling access; and 			
		 reducing the visual impacts of the project; 			
	g)	a description of the potential risks to successful rehabilitation and/or revegetation, and a description of the contingency measures that would be implemented to mitigate these risks; and		Section 2.7 of the Landscape Management Plan.	
	h)	details of who is responsible for monitoring, reviewing, and implementing the plan.		Section 2.8 of the Landscape Management Plan.	
* D = D	ocume	entation sighted A = Advis	sed by Company	O = On-site Ob	servation

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Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
	SCHEDULE 3 ENVIRONMENTAL	PERFORMAI	NCE CONDITIONS (Cont'd)	
Lands	cape Management Plan (Cont'd)			
30.	The Long Term Management Strategy must:	Compliant		D
	 define the objectives and criteria for quarry closure and post-extraction management; 		Section 3.2 of the Landscape Management Plan.	
	b) investigate options for the future use of the site;		Section 3.3 of the Landscape Management Plan.	
	 describe the measures that would be implemented to minimise or manage the ongoing environmental effects of the project; and 		Section 3.4 of the Landscape Management Plan.	
	 d) describe how the performance of these measures would be monitored over time. 		Section 3.5 of the Landscape Management Plan.	
Rehab	ilitation Bond			
31.	Prior to starting quarrying operations on the site, the Proponent shall lodge a rehabilitation bond for the project with the Director-General. The sum of the bond shall be calculated at:	Not Yet Applicable	Quarry operations have not yet commenced.	A, D
	 \$2.50/m² for the total area to be disturbed and/or revegetated in each 5 year review period (see condition 28 below); and 			
	 \$1.50/m² for the total area of land previously disturbed and/or rehabilitated by the project, to the satisfaction of the Director-General. 			
	Notes:			
	 If the rehabilitation and revegetation works are completed to the satisfaction of the Director-General, the Director-General will release the rehabilitation bond. 			
	If the rehabilitation and revegetation works are not completed to the satisfaction of the Director-General, the Director-General will call in all or part of the rehabilitation bond, and arrange for the satisfactory completion of the relevant works.			
* D = D	ocumentation sighted A = Advi	sed by Company	O = On-site Ob	servation

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Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
140.	SCHEDULE 3 ENVIRONMENTAL	PERFORMAN	NCE CONDITIONS (Cont'd)	
Rehab	ilitation Bond (Cont'd)	I LIKI OKIMAI	tor conditions (cont a)	
32.	Within 6 months of each Independent Environmental Audit (see condition 6 of schedule 5) excluding the inaugural audit, unless the Director-General directs otherwise, the Proponent shall review, and if necessary revise, the sum of the rehabilitation bond to the satisfaction of the Director-General. This review must consider:	Not Yet Applicable	No independent audits have been completed to date.	A
	a) the effects of inflation;			
	b) any changes to the total area of disturbance; and			
	 the performance of the rehabilitation and revegetation to date. 			
ABOR	IGINAL CULTURAL HERITAGE			
Aborig	inal Cultural Heritage Management Plan			
33.	The Proponent shall prepare and implement an Aboriginal Cultural Heritage Management Plan to the satisfaction of the Director-General. This plan must:	Not yet Applicable	Operations have not yet commenced.	A, D
	a) be prepared in consultation with the relevant Aboriginal communities;		Prepared in consultation with Tweed-Byron LALC (correspondence dated 01/03/11).	
	b) be submitted to the Director-General for approval prior to carrying out any development; and		Aboriginal Cultural Heritage Management Plan (ACHMP) submitted to DoP 09/02/11.	
	c) include a:			
	 description of the Aboriginal cultural heritage induction protocol for employees; 		Section 7 of the ACHMP.	
	 description of the process for Aboriginal inspection of excavations for the northern pipeline corridor; 		Section 8 of the ACHMP.	
	 description of the measures that would be implemented if any new Aboriginal objects or skeletal remains are discovered during the project either within or beyond the area of disturbance; and 		Section 10 and Appendix 1 of the ACHMP.	
	 description of the process for identifying a long-term storage location should Aboriginal relics be discovered within the project site requiring salvage. 		Section 12 of the ACHMP.	
* D = D	ocumentation sighted A = Advis	sed by Company	O = On-site O	bservatior

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Cond.	Conditional Requirement	Compliance	Comments	Basis*
No.	SCHEDULE 3 ENVIRONMENTA	I DEDEODMAI	NCE CONDITIONS (Contid)	
TRAF	FIC AND TRANSPORTATION	IL PERFORIVIAI	NCE CONDITIONS (COIR d)	
	Works			
34.	Prior to despatch of sand by road, the Proponent shall: a) upgrade the intersection of Twee Coast Road and Crescent Street for right turning vehicles to AUSTROAD	Applicable d or	Product despatch has not yet commenced.	A
	cHR treatment; and b) upgrade the intersection of Twee Coast Road and Crescent Street for left turning vehicles to AUSTROAD Figure 6.24 left turn treatment,	d or		
	to the satisfaction of Council.			
	Note: In the event that the Tweed Coast Road is upgraded prior to the commencement of the despatch of sand by road, the Proponent shall pay \$105,000 (indexed annually by CPI) to Tweed Shire Council as a contribution to intersection works on Tweed Coast Road and Crescent Street for trucks entering onto Tweed Coast Road from Crescent Street.	5		
Road	Haulage			
35.	Trucks are not permitted to enter the site prior to 7.00am on any day.	Not Yet Applicable	Road haulage has not yet commenced.	А
	Note: This condition does not apply to delivery of material if that delivery is required by police or other authorities for safety reasons, and/or the operation or personnel or equipment are endangered. In such circumstances, notification is to be provided to DECC and the affected residents as soon as possible, or within a reasonable period in the case of emergency.			
36.	The Proponent shall prepare and implemer a Traffic Safety Plan for the project to the satisfaction of the Director-General. This plan must:	Not Yet Applicable	Construction works have not yet commenced.	А
	a) be prepared in consultation with th RTA and Tweed Shire Council;	е		
	b) include measures to minimise the ris to other road users from project-relate vehicles on public roads durin construction and operation, includin vehicles proceeding across Alton Drive between the southern an northern parts of the site;	d g g a		
	c) prohibit trucks departing the site from turning right from Crescent Street Tweed Coast Road; and			
	d) be submitted to the Director-Gener prior to commencing construction work			
* D = D	Pocumentation sighted $A = A$	dvised by Company	O = On-site O	bservation

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		1	Pag	e 19 of 26
Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
	SCHEDULE 3 ENVIRONMENTAL	PERFORMAN	NCE CONDITIONS (Cont'd)	
Road H	Haulage (Cont'd)			
37.	Product and VENM trucks are not to utilise Altona Drive west of the site or Crescent Street south of Altona Drive, except for the purpose of delivery or collection local to those streets.	Not Yet Applicable	Product and VENM transportation has not yet commenced.	A
38.	The Proponent shall ensure that all loaded vehicles: a) entering or leaving the site have their loads covered; and b) leaving the site are cleaned of materials that may fall on the road before they are allowed to leave the site.	Not Yet Applicable	Product and VENM transportation has not yet commenced.	A
Parkin	g			
39.	The Proponent shall provide sufficient parking on-site for all project-related traffic and visitors, in accordance with Council's parking codes and to the satisfaction of the Director-General. No on street parking shall be undertaken.	Not Yet Applicable	Operations have not yet commenced.	A, D
	L IMPACT			
40.	Amenity The Proponent shall minimise the visual	Not Yet	Operations have not yet	A, D
40.	impacts of the project to the satisfaction of the Director-General.	Applicable	commenced.	A, D
41.	The Proponent shall establish and subsequently maintain the vegetation screen around the extraction area within 12 months of the date of this approval. Note: The vegetation screen_shall be detailed in the Landscape Management Plan required under condition 28.	Compliant	Vegetation screening was previously planted adjacent to Tweed Coast Road and Crescent Street and fencing installed to exclude cattle. Slashing of grass was undertaken within the fenced off area during the reporting period to assist tree growth.	A
Lightir	ng Emissions			
42.	The Proponent shall: a) take all practicable measures to mitigate off-site lighting impacts from the project; and b) ensure that all external lighting associated with the project complies with Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting, to the satisfaction of the Director-General.	Not Yet Applicable	Operations have not yet commenced.	A, D
Advert				
43.	The Proponent shall not erect or display any advertising structure(s) or signs on the site without the written approval of the Director-General. Note: This does not include business identification, traffic management and safety or environmental signs.	Compliant	No advertising or signs have been erected within the Quarry Site.	A
* D = D	ocumentation sighted A = Advis	sed by Company	O = On-site Ob	servation

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Table A (Cont'd) Compliance Review – Project Approval 05_0103

Page 20 of 26 Cond. **Conditional Requirement** Compliance Comments Basis* No. SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd) **WASTE MANAGEMENT** 44. The Proponent shall minimise the amount Not Yet Operations have not yet A, D of waste generated by the project to the commenced Applicable satisfaction of the Director-General. **EMERGENCY AND HAZARDS MANAGEMENT Dangerous Goods** 45. The Proponent shall ensure that the Not Yet No dangerous goods are currently storage, handling, and transport of Applicable stored or transported to the Quarry dangerous goods are conducted in Site. accordance with the relevant Australian Standards, particularly AS1940 and AS1596, and the Dangerous Goods Code. Safety The Proponent shall secure the project to Compliant The boundary of the Quarry Site is Α ensure public safety to the satisfaction of currently fenced with agricultural the Director-General. fencing. **Bushfire Management** A, D 47. The Proponent shall: Not Yet Operations have not yet Applicable commenced and no quarry ensure that the project is suitably infrastructure is present on-site. equipped to respond to any fires onsite; and assist the rural fire service and emergency services as much as possible if there is a fire on-site. **PRODUCTION DATA** 48. Not Yet The Proponent shall: Extraction operations have not yet A, D Applicable commenced. provide annual production data to the DPI using the standard form for that purpose; and include a copy of this data in the AEMR. **SCHEDULE 4 ADDITIONAL PROCEDURES Notification of Landowners** 1. If the results of monitoring required in No water quality exceedances Not Yet A, D Schedule 3 identify that impacts generated Applicable during the reporting period. by the project are greater than the relevant No other monitoring or exceedance. impact assessment criteria, then the Proponent shall notify the Director-General, affected landowners, and/or existing or future tenants accordingly, and provide quarterly monitoring results to each of these parties until the results show that the project is complying with the relevant criteria.

A = Advised by Company

* D = Documentation sighted

O = On-site Observation

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Cond.	O Principal Description	0 "	_	21 of 26
No.	Conditional Requirement	Compliance	Comments	Basis*
	SCHEDULE 4 ADDITIO	NAL PROCE	DURES (Cont'd)	
-	ndent Review			
2.	If a landowner considers that the project is exceeding the impact assessment criteria in Director-General in writing for an independent review of the impacts of the project on his/her land.	Not Yet Applicable	Request for independent review has not been received to date.	A
	If the Director-General is satisfied that an independent review is warranted, the Proponent shall within 3 months of the Director-General advising that an independent review is warranted:			
	a) consult with the landowner to determine his/her concerns;			
	b) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General to conduct monitoring on the land, to determine whether the project is complying with the relevant criteria in schedule 3, and identify the source(s) and scale of any impact on the land, and the project's contribution to this impact; and			
	c) give the Director-General and landowner a copy of the independent review.			
3.	If the independent review determines that the project is complying with the relevant criteria in schedule 3, then the Proponent may discontinue the independent review with the approval of the Director-General.	Not Yet Applicable	Request for independent review has not been received to date.	A
4.	If the independent review determines that the project is not complying with the relevant criteria in schedule 3, and that the project is primarily responsible for this non-compliance, then the Proponent shall:	Not Yet Applicable	Request for independent review has not been received to date.	A
	implement all reasonable and feasible measures, in consultation with the landowner, to ensure that the project complies with the relevant criteria; and			
	b) conduct further monitoring to determine whether these measures ensure compliance; or			
	c) secure a written agreement with the landowner to allow exceedances of the relevant criteria in schedule 3,to the satisfaction of the Director-General.			
* D = Do	ocumentation sighted A = Advi	sed by Company	O = On-site Ob	servation

Table A (Cont'd) Compliance Review – Project Approval 05_0103

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Cond.	Conditional Requirement	Compliance	Comments	22 of 26 Basis*
No.	·		DUDES (Contid)	
Indene	SCHEDULE 4 ADDITIO	NAL PROCE	DUKES (CONTA)	
	If the additional monitoring referred to above subsequently determines that the project is complying with the relevant criteria in schedule 3, or the Proponent and landowner enter into a negotiated agreement to allow these exceedances, then the Proponent may discontinue the independent review with the approval of the Director-General.			
5.	If the landowner disputes the results of the independent review, either the Proponent or the landowner may refer the matter to the Director-General for resolution. If the matter cannot be resolved within 21 days, the Director-General shall refer the matter to an Independent Dispute Resolution Process (see Appendix 4).	Not Yet Applicable	Request for independent review has not been received to date.	A
	SCHEDULE 5 ENVIRONMENTAL MAN	IAGEMENT A	ND MONITORING CONDITIONS	
	nmental Management Strategy			T
1.	The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Director-General. This strategy must: a) be submitted to the Director-General prior to starting quarrying operations on the site;	Not Yet Applicable	Quarrying operations have not yet commenced. The Environmental Management Strategy (EMS) was submitted to DoP 23/11/10 for review and comment and approved 15/02/11.	A, D
	b) provide the strategic context for environmental management of the project;		Section 1.2 of the EMS.	
	c) identify the statutory requirements that apply to the project;		Section 3.0 of the EMS.	
	d) describe in general how the environmental performance of the project would be monitored and managed; e) describe the procedures that would be		Section 5.0 of the EMS.	
	e) describe the procedures that would be implemented to:			
	 keep the local community and relevant agencies informed about the construction, operation and environmental performance of the project; 		Section 6.1 of the EMS.	
	 receive, handle, respond to, and record complaints; 		Section 6.2 of the EMS.	
	 resolve any disputes that may arise during the life of the project; 		Section 6.3 of the EMS.	
	respond to any non-compliance;		Section 7.0 of the EMS.	
* D = D	ocumentation sighted A = Advi	ised by Company	O = On-site Obs	servation

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			Pag	e 23 of 26
Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SC	CHEDULE 5 ENVIRONMENTAL MANAGE	MENT AND N	MONITORING CONDITIONS (Con	t'd)
Enviro	nmental Management Strategy (Cont'd)			
	manage cumulative impacts; and		Section 8.0 of the EMS.	
	respond to emergencies; and		Section 9.0 of the EMS.	
	f) describe the role, responsibility, authority, and accountability of the key personnel involved in the environmental management of the project.		Section 4.0 and Appendix 2 of the EMS.	
Enviro	nmental Monitoring Program			
2.	The Proponent shall prepare an Environmental Monitoring Program for the project to the satisfaction of the Director-General. This program must be submitted to the Director-General prior to starting quarrying operations on the site, and consolidate the various monitoring requirements in Schedule 3 of this approval into a single document.	Not Yet Applicable	Operations have not yet commenced.	A, D
Incide	nt Reporting			
3.	Within 24 hours of detecting an exceedance of the limits/performance criteria in this approval or the occurrence of an incident that causes (or may cause) material harm to the environment, the Proponent shall notify the Department and other relevant agencies of the exceedance/incident.	Not Yet Applicable	No exceedances or incidents have been recorded to date.	A, D
4.	Within 6 days of notifying the Department and other relevant agencies of an exceedance/incident, the Proponent shall provide the Department and these agencies with a written report that:	Not Yet Applicable	No exceedances or incidents have been recorded to date.	A, D
	 a) describes the date, time, and nature of the exceedance/incident; 			
	b) identifies the cause (or likely cause) of the exceedance/incident;			
	c) describes what action has been taken to date; and			
	d) describes the proposed measures to address the exceedance/incident.			
* D = Do	ocumentation sighted A = Advi	sed by Company	O = On-site Ob	servation

year;

and

refers. * D = Documentation sighted

during the period to which the AEMR

A = Advised by Company

Cudgen Lakes Sand Quarry Appendix 1

Cond.

No.

Annual Reporting

Table A (Cont'd) Compliance Review - Project Approval 05_0103

Page 24 of 26 **Conditional Requirement** Compliance Comments Basis* SCHEDULE 5 ENVIRONMENTAL MANAGEMENT AND MONITORING CONDITIONS (Cont'd) Administrative The first AEMR was submitted Within 12 months of the date of this Non-15/06/10 (i.e. within 12 months of approval, and annually thereafter, the Compliance this approval 16/06/09). This AEMR Proponent shall submit an AEMR to the was accepted by DP&I on 28/06/10. Director-General and relevant agencies including Council. This report must: The 2012/2013 Annual Review was a) identify the standards and performance submitted 12/09/16, i.e. exceeding measures that apply to the project; the annual requirement. Notably, no b) describe the works carried out in the operations were undertaken during last 12 months: that Annual Review period. c) describe the works that will be carried out in the next 12 months; d) include a summary of the complaints received during the past year, and compare this to the complaints received in previous years; e) include a summary of the monitoring results for the project during the past include an analysis of these monitoring results against the relevant: impact assessment criteria/limits; monitoring results from previous years; and predictions in the EA; g) identify any trends in the monitoring results over the life of the project; identify any non-compliance during the previous year; describe what actions were, or are being, taken to ensure compliance; list the sources of VENM material received at the site and the tonnage of materials received from each source



O = On-site Observation

Table A (Cont'd) Compliance Review – Project Approval 05_0103

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Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SC	CHEDULE 5 ENVIRONMENTAL MANAGE	MENT AND N	MONITORING CONDITIONS (Con	ıt'd)
Indepe	endent Environmental Audit			
6.	Within 2 years of the start of quarrying operations on site, and every 5 years thereafter, unless the Director-General directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:	Not Yet Applicable	Quarrying operations have not yet commenced.	A, D
	a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director- General;			
	b) include consultation with the relevant agencies;			
	c) assess the environmental performance of the project, and its effects on the surrounding environment;			
	d) assess whether the project is complying with the relevant standards, performance measures and statutory requirements;			
	e) review the adequacy of any strategy/plan/program required under this approval; and, if necessary,			
	f) recommend measures or actions to improve the environmental performance of the project, and/or any strategy/plan/program required under this approval.			
7.	Within 1 month of completion of each Independent Environmental Audit, the Proponent shall submit a copy of the audit report to the Director-General and relevant agencies, with a response to all of the recommendations in the audit report.	Not Yet Applicable	Quarrying operations have not yet commenced.	A, D
8.	Following each Independent Environmental Audit, the Proponent shall review and if necessary revise each of the environmental management and monitoring strategies/plans/programs in schedules 3 and 5, to the satisfaction of the Director-General. The revised strategies/plans/programs shall be submitted to the Director-General within 6 months of completing the audit.	Not Yet Applicable	Quarrying operations have not yet commenced.	A, D
* D = D	. •	sed by Company	O = On-site Ob	servation

Cudgen Lakes Sand Quarry Appendix 1

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Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
	SCHEDULE 5 ENVIRONMENTAL MANAGE	MENT AND MO	ONITORING CONDITIONS (Cont'd)	
Comm	unity Consultative Committee			
9.	Prior to starting quarrying operations on the site, the Proponent shall establish a CCC for the project. This CCC must be established and operated in accordance with the Guideline for Establishing and Operating Community Consultative Committees for Mining Developments, and to the satisfaction of the Director-General.	Not Yet Applicable	Quarrying operations have not yet commenced.	A, D
	Note: With the approval of the Director-General, the Proponent may combine the CCC with the CCC for the Hanson Tweed sand extraction operation.			
Acces	s to Information			
10.	Within 1 month of the approval of any plan/strategy/program required under this approval (or any subsequent revision of these plans/strategies/programs), or the completion of any independent environmental audit or AEMR the Proponent	Administrative Non- Compliance	The approved 2009/2010 AEMR was not made available on the Company website within 1 month of approval. A copy was subsequently uploaded.	D
	shall: a) provide a copy of the relevant document/s to Council and relevant agencies; and			
	b) ensure that a copy of the relevant document/s is made publicly available on site and/or at the Proponent's regional office and on the Proponent's website, to the satisfaction of the Director-General.			
11.	During the project, the Proponent shall:	Not Yet	Monitoring as outlined within	Α
	a) make a summary of monitoring results required under this approval publicly	Applicable	Schedule 3 has not yet commenced.	
	available at the Proponent's regional office and on the Proponent's website; and		It is noted that quarterly water quality monitoring undertaken in accordance with EPL 12385 is	
	b) update these results regularly (at least every 3 months), to the satisfaction of the Director-General.		updated annually on the Company website.	
* D = Do	ocumentation sighted A = Advi	sed by Company	O = On-site Ob	servation



Table B Compliance Review – Statement of Commitments (SoC)

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SoC No.	Commitment	Compliance		Basis*
Area	of Activities			
1.1	Survey and mark the boundaries of the areas of disturbance.	See Ta	able A Schedule 3 Condition	n 1
Sand	Extraction and Processing			
2.1	Ensure extraction batters for all long-term boundaries are formed no steeper than 1:5 (V:H).	Not Yet Applicable	Extraction has not yet commenced	A, D
2.2	Ensure the extraction rate is contained to limit initial drawdown levels (see Commitments 7.1 and 7.3).	Not Yet Applicable	Extraction has not yet commenced	A, D
2.3	Ensure total extraction rates do not exceed 650 000m ³ per year.	See Ta	able A Schedule 2 Condition	n 6
2.4	Ensure no more than 200 000m ³ (300,000 tonnes) of sand is processed per year.	See Ta	able A Schedule 2 Condition	n 7
Opera	ating Hours			
3.1	Undertake all site establishment activities between 7:00am and 6:00pm Monday to Friday and 7:00am to 1:00pm Saturdays.	See Ta	able A Schedule 3 Conditio	n 5
3.2	Undertake all sand extraction (dredging to processing area) and processing between 7:00am and 10:00pm Monday to Friday and 7:00am to 4:00pm Saturdays.	See Ta	able A Schedule 3 Conditio	n 5
3.3	Undertake all sand extraction (dredging to fill sites) between 7:00am to 6:30pm Monday to Friday and 7:00am to 1:00pm Saturdays.	See Ta	able A Schedule 3 Conditio	n 5
3.4	Undertake all soil removal and sand extraction (excavation) between 7:00am and 6:00pm Monday to Friday and 7:00am to 1:00pm Saturdays.	See Ta	able A Schedule 3 Conditio	n 5
3.5	Undertake all product distribution and VENM receipt between 7:00am and 6:00pm Monday to Friday and 7:00am to 1:00pm Saturdays.	See Ta	able A Schedule 3 Conditio	n 5
3.6	Undertake audible site maintenance between 7:00am to 6:00pm Monday to Friday and 7.00am to 1:00pm Saturdays.	See Ta	able A Schedule 3 Condition	n 5
3.7	Undertake inaudible site maintenance at any time.	See Ta	able A Schedule 3 Condition	n 5
Waste	e Management			
4.1	Dispose all recyclables and general waste in appropriate waste receptacles.	Not Yet Applicable	Operations have not yet commenced and no wastes have been generated.	A, D
4.2	Place all oversize materials within the VENM(a) receival area.	Not Yet Applicable	Operations have not yet commenced.	A, D
4.3	Intern any oversize materials suspected of being acid generating to settle beneath at least 8m of water.	Not Yet Applicable	Operations have not yet commenced.	A, D
* D =	Documentation sighted A = Advised by Comp	any	O = On-site O	bservation



Cudgen Lakes Sand Quarry Appendix 1

Table B (Cont'd) Compliance Review – Statement of Commitments

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Commitment	Compliance	Comments	Basis*
bilitation			
Progressively backfill the northern extraction pond to the natural ground level.	Not Yet Applicable	Operations have not yet commenced.	A, D
Progressively backfill selected finalised sections of the southern extraction pond to create wetland areas.	Not Yet Applicable	Operations have not yet commenced.	A, D
Stabilise all earthworks and disturbed areas no longer required for Project-related activities in order to minimise erosion and sedimentation, dust lift-off and to reduce visual intrusion.	Not Yet Applicable	Operations have not yet commenced.	A, D
Conduct ongoing annual rehabilitation monitoring and maintenance.	Not Yet Applicable	Operations have not yet commenced.	A, D
Cross-rip all unsealed roads and remove all buildings and structures not required for the final land use.	Not Yet Applicable	Operations have not yet commenced.	A, D
Prepare a Rehabilitation Management Plan.	See Tal	ole A Schedule 3 Condition	29.
ling and Drainage			
Construct and maintain shallow spillways (approximate elevation 1.3m AHD) within the bunds surrounding the extraction ponds at the eastern and western extent of the bunding adjacent the deepest part of the extraction pond.	Not Yet Applicable	Operations have not yet commenced.	A, D
Remove sections of bunding once floodwaters have peaked to allow floodwaters trapped behind the bunds to drain freely to the western drainage channel as the flood recedes.	Not Yet Applicable	Operations have not yet commenced.	A, D
Fill the processing area approximately 0.75m to 1.0m above natural ground level (1.55m AHD to 1.8m AHD) to prevent inundation of the processing area during local catchment floods.	Not Yet Applicable	Operations have not yet commenced.	A, D
Block the entrance to the processing area with sand relocated from on-site stockpiles prior to a forecast Tweed River overbank flood to reduce the level of inundation within the processing area.	Not Yet Applicable	Operations have not yet commenced	A, D
Maintain drainage paths outside of the bunded and filled areas to allow floodwaters to drain freely.	Not Yet Applicable	Operations have not yet commenced.	A, D
Prepare a flood evacuation plan to ensure that personnel respond appropriately to a warning of an imminent Tweed River overbank flood.	Not Yet Applicable	Operations have not yet commenced.	A, D
Realign the western drainage channel parallel to and south of Altona Drive to provide a more efficient drain and allow faster drainage of floodwaters towards the Tweed River.	Not Yet Applicable	Altona Drive has not yet been realigned.	A, D
	Progressively backfill the northern extraction pond to the natural ground level. Progressively backfill selected finalised sections of the southern extraction pond to create wetland areas. Stabilise all earthworks and disturbed areas no longer required for Project-related activities in order to minimise erosion and sedimentation, dust lift-off and to reduce visual intrusion. Conduct ongoing annual rehabilitation monitoring and maintenance. Cross-rip all unsealed roads and remove all buildings and structures not required for the final land use. Prepare a Rehabilitation Management Plan. ing and Drainage Construct and maintain shallow spillways (approximate elevation 1.3m AHD) within the bunds surrounding the extraction ponds at the eastern and western extent of the bunding adjacent the deepest part of the extraction pond. Remove sections of bunding once floodwaters have peaked to allow floodwaters trapped behind the bunds to drain freely to the western drainage channel as the flood recedes. Fill the processing area approximately 0.75m to 1.0m above natural ground level (1.55m AHD to 1.8m AHD) to prevent inundation of the processing area with sand relocated from on-site stockpiles prior to a forecast Tweed River overbank flood to reduce the level of inundation within the processing area. Maintain drainage paths outside of the bunded and filled areas to allow floodwaters to drain freely. Prepare a flood evacuation plan to ensure that personnel respond appropriately to a warning of an imminent Tweed River overbank flood. Realign the western drainage channel parallel to and south of Altona Drive to provide a more efficient drain and allow faster drainage of floodwaters towards the Tweed River.	Progressively backfill the northern extraction pond to the natural ground level. Progressively backfill selected finalised sections of the southern extraction pond to create wetland areas. Stabilise all earthworks and disturbed areas no longer required for Project-related activities in order to minimise erosion and sedimentation, dust lift-off and to reduce visual intrusion. Conduct ongoing annual rehabilitation monitoring and maintenance. Cross-rip all unsealed roads and remove all buildings and structures not required for the final land use. Prepare a Rehabilitation Management Plan. See Tating and Drainage Construct and maintain shallow spillways (approximate elevation 1.3m AHD) within the bunds surrounding the extraction ponds at the eastern and western extent of the bunding adjacent the deepest part of the extraction pond. Remove sections of bunding once floodwaters have peaked to allow floodwaters trapped behind the bunds to drain freely to the western drainage channel as the flood recedes. Fill the processing area approximately 0.75m to 1.0m above natural ground level (1.55m AHD to 1.8m AHD) to prevent inundation of the processing area during local catchment floods. Block the entrance to the processing area with sand relocated from on-site stockpiles prior to a forecast Tweed River overbank flood to reduce the level of inundation within the processing area. Maintain drainage paths outside of the bunded and filled areas to allow floodwaters to drain freely. Maintain drainage paths outside of the bunded and filled areas to allow floodwaters to drain freely. Mot Yet Applicable Not Yet Applicable Appl	Dilitation Progressively backfill the northern extraction pond to the natural ground level. Progressively backfill selected finalised sections of the southern extraction pond to create wetland areas. Stabilise all earthworks and disturbed areas no longer required for Project-related activities in order to minimise erosion and sedimentation, dust lift-off and to reduce visual intrusion. Conduct ongoing annual rehabilitation monitoring and maintenance. Cross-rip all unsealed roads and remove all buildings and structures not required for the final land use. Prepare a Rehabilitation Management Plan. See Table A Schedule 3 Condition Ing and Drainage Construct and maintain shallow spillways (approximate elevation 1.3m AHD) within the bunds surrounding the extraction ponds at the eastern and western extent of the bunding adjacent the deepest part of the extraction pond. Remove sections of bunding once floodwaters have peaked to allow floodwaters trapped behind the bunds to drain freely to the western drainage channel as the flood recedes. Fill the processing area approximately 0.75m to 1.0m above natural ground level (1.55m AHD to 1.8m AHD) to prevent inundation of the processing area during local catchment floods. Block the entrance to the processing area with sand relocated from on-site stockpiles prior to a forecast Tweed River overbank flood to reduce the level of inundation within the processing area. Maintain drainage paths outside of the bunded and filled areas to allow floodwaters to drain freely. Prepare a flood evacuation plan to ensure that personnel respond appropriately to a warning of an imminent Tweed River overbank flood to reduce the level of inundation within the processing area amonal parallel to and south of Altona Drive to provide a more efficient drain and allow faster drainage of floodwaters towards the Tweed River overbank flood to reduce the level of inundation of the processing area amonal parallel to and south of Altona Drive to provide a more efficient drain and allow faster d

Table B (Cont'd) Compliance Review – Statement of Commitments

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SoC No.	Commitment	Compliance	Comments	Basis*
Groun	ndwater			
7.1	Commence extraction within the southern extraction pond at an equivalent rate of 100 000m ³ per year and progressively ramp up in increments of up to 100 000m ³ .	Not Yet Applicable	Operations have not yet commenced.	A, D
7.2	Ensure the maximum extraction rate within the southern extraction pond does not exceed 450 000m³ per year during the first two years of operations or until a sufficient size extraction pond is created to allow extraction at a rate of 650 000m³ per year.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.3	Adjust sand extraction rates to ensure that groundwater drawdown levels remain within the predicted limits.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.4	Install a height gauge within the Southern Extraction Pond so that water levels can be monitored daily to m AHD.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.5	Undertake standard monitoring for pH, EC, temperature, REDOX potential and groundwater level (m AHD) at the monitoring locations nominated in the Groundwater Monitoring Plan.	Not Yet Applicable	Operations have not yet commenced. A Groundwater Monitoring Plan has been included in the SWMP.	A, D
7.6	Undertake comprehensive monitoring for pH, EC, temperature, REDOX potential, groundwater level (m AHD), dissolved oxygen, calcium, magnesium, sodium, potassium, bicarbonate, sulfate, chloride, filterable iron, aluminium and arsenic. Monitoring will be undertaken by a suitably qualified or trained person at the monitoring locations nominated in the Groundwater Monitoring Plan and analysis undertaken at a NATA accredited laboratory.	Not Yet Applicable	Operations have not yet commenced. A Groundwater Monitoring Plan has been included in the SWMP.	A, D
7.7	Continue groundwater monitoring following the cessation of extraction and placement of VENM.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.8	Regularly review monitoring data.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.9	Provide a summary of the monthly / quarterly data relevant to each bore to the respective landowners.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.10	Compile an annual summary of all monitoring results and forward to DWE as part of the annual return for the site.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.11	Coordinate all monitoring activities with those already underway by Hanson Construction Materials and Australian Bay Lobster to ensure meaningful analyses can be obtained from all monitoring on the flood plain.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.12	Consult with each likely affected landowner and investigate complaints of poor water quality in neighbouring dams/bores.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.13	Undertake a more detailed sampling and analysis program to identify the source of the drawdown or contamination in the event the following is detected.	Not Yet Applicable	Operations have not yet commenced.	A, D
	Deterioration in groundwater quality outside of the effects of drought or flood due to on-site activities.			
	Significant variations in groundwater level outside drought or flood conditions due to on-site activities.			
	Formation of a cone of depression or a groundwater mound that extends beyond the site boundary.			
* D = [Documentation sighted A = Advised by Comp	any	O = On-site Ob	servation

Table B (Cont'd) Compliance Review – Statement of Commitments

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SoC No.	Commitment	Compliance	Comments	Basis*
	l dwater (Cont'd)			
7.14	Negotiate an agreement with each affected landholder in the event water quality or quantity is adversely affected to either:	Not Yet Applicable	Operations have not yet commenced.	A, D
	deepen the existing bore or install a replacement bore;			
	 pay a cash compensation equal to the assessed cost of deepening the bore; 			
	provide an alternative water supply, such as from the extraction ponds or groundwater bore registered to the Proponent; or			
	provide an appropriately sized rainwater storage tank to enhance property water storage.			
7.15	Investigate and secure a suitable alternative water supply (or other form of compensation) for R.W. Julius commensurate with the agreed legal water usage from groundwater supplies from Lot 1 DP598073.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.16	Monitor, using data loggers, water levels and water usage rates within the dams on the R. Julius property that would potentially be affected.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.17	Implement the provision of an alternative water supply or other agreed compensation.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.18	Provide copies of any negotiated agreements to the Department of Planning and Department of Water and Energy for their records.	Not Yet Applicable	Operations have not yet commenced.	A, D
Surfac	ce Water			
8.1	Reduce sand extraction and temporarily cease VENM placement if a significant deterioration in extraction pond water quality occurs, until the source is identified and appropriate amelioration measures are implemented.	Not Yet Applicable	Operations have not yet commenced.	A, D
8.2	Regularly monitor surface water to provide an accurate assessment of the adequacy of practices implemented as part of the operation.	Not Yet Applicable	Operations have not yet commenced.	A, D
Acid S	Sulfate Soils and Sediments, Soil Contamination and Ag	ricultural Suit	ability	
9.1	Convey return water (from both the wash plant and fill sites) in a manner which ensures fines / silts remain in suspension and do not settle in the return pipelines. If a pipeline is not used, undertake sluicing in a manner that ensures turbulent flow and sufficient velocity to prevent the deposition of fines material within the drainage line.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.2	Return all separated fines to the extraction ponds for final placement with the return outlet located at a minimum 3m below the water surface within the extraction ponds.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.3	Settle silts/fines arising from processing a minimum depth (typically 8m) below the surface of the southern extraction pond.	Not Yet Applicable	Operations have not yet commenced.	A, D
* D = [Documentation sighted A = Advised by Comp	any	O = On-site Ob	servation

Table B (Cont'd) Compliance Review – Statement of Commitments

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	T	I	Pag I	e 5 of 12
SoC No.	Commitment	Compliance	Comments	Basis*
Acid Su	Ifate Soils and Sediments, Soil Contamination and Ag	ricultural Suit	ability (Cont'd)	
9.4	Do not extract residual clay material from the base of the sand resource.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.5	Ensure a suitably qualified or trained person assesses imported material (VENM) in accordance with the ASSMAC guidelines and confirms its classification as VENM prior to acceptance at the Project Site.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.6	Place VENM(b), received at the premises which is intended to be:	Not Yet Applicable	Operations have not yet commenced.	A, D
	dredged or interned within the southern extraction pond to settle at a minimum of 8m below the surface water; or			
	placed within the northern extraction area a minimum depth of -2.0m AHD;			
	within a nominated period.			
9.7	Compile a site specific Acid Sulfate Soil and Sediment Management Plan for the Project in accordance with relevant legislation and in consultation with government agencies, in particular DWE and DECC. Ensure the management plan covers both the management of acid generation during extraction operations and the management of potentially acid generating VENM(b).	See Ta l	ble A Schedule 3 Condition	22
9.8	Retain records of monitoring on site together with the application rates of the alkaline amendment used as neutralising agents. Provide these records to statutory authorities upon request.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.9	Obtain documentation for each truck load of VENM(b) received at the Project Site that demonstrates that the excavation of VENM(b) and its transport and handling has been conducted in accordance with the NSW ASS Manual to prevent the generation of acid.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.10	Submit to the DECC(EPA) an annual return (in accordance with the issued Environment Protection Licence) which outlines the results of all required monitoring.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.11	Retain documentation for each truck load of VENM(b) received at the site which indicates:	Not Yet Applicable	Operations have not yet commenced.	A, D
	the details of the originating site (name, address, owner and developer, contact details);			
	the details of the transportee (name, address, contact details, vehicle registration);			
	date and time of the extraction of the VENM(b);			
	pH of the VENM(b) at the time of its extraction, and at the time immediately prior to its placement underwater; and			
	the name of the person (certified practicing soil scientist) who assessed the material and classified it as VENM(b).			
* D = Do	cumentation sighted A = Advised by Comp	any	O = On-site Ob	servation

Table B (Cont'd) Compliance Review – Statement of Commitments

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0.0	T		Paç	ge 6 of 12
SoC No.	Commitment	Compliance	Comments	Basis*
Acid Su	Ilfate Soils and Sediments, Soil Contamination and Ag	ricultural Suit	ability (Cont'd)	
9.12	Ensure verification of neutralising agent application volumes and verification results are available.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.13	Treat stripped topsoil/loam at determined rates prior to use in earth bunds or rehabilitation.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.14	Treat and validate washed sand where required.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.15	Collect and analyse soil samples at a rate of 4 per hectare.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.16	Incorporate an alkaline amendment into the topsoil / loam at the calculated rate (based on the results of sampling).	Not Yet Applicable	Operations have not yet commenced.	A, D
9.17	Complete the validation sampling of treated soil at a rate one sample per 1 000m ³ .	Not Yet Applicable	Operations have not yet commenced.	A, D
9.18	Construct bunding around the extraction and processing areas to control drainage.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.19	Ensure all surface water and runoff from the extraction and processing areas drains or is pumped into the extraction ponds.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.20	Process extracted material via a hydrocyclone (such as would be used within the wash plant) or similar to hydraulically separate the fines (potentially containing pyrite) from the sand resource (except when material has been treated to ameliorate acid potential).	Not Yet Applicable	Operations have not yet commenced.	A, D
9.21	Treat all material not processed using a hydrocyclone or similar with alkaline amendments.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.22	Undertake validation testing of extracted sand and stripped topsoil/loam as described in Table 4.9 of the Environmental Assessment and in accordance with the NSW ASS Manual (ASSMAC, 1998) and amended laboratory methods.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.23	Audit the effectiveness of the operational safeguards and monitoring by an external environmental consultant.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.24	Test the pH of the water into which the VENM(b) is placed to ensure it is not less than 6.5 at any time.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.25	Undertake monitoring as outlined in Table 4.10 of the Environmental Assessment in relation to VENM(b) receipt and processing / internment.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.26	Test the pH of the VENM(b) immediately prior to underwater disposal / backfilling to ensure the pH is not less than 5.5.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.27	Undertake a internal environmental audits of VENM(b) receipt and treatment during the initial stages of the operation to ensure appropriate treatment is being conducted and records are up to date.	Not Yet Applicable	Operations have not yet commenced.	A, D
* D = Do	ocumentation sighted A = Advised by Comp	any	O = On-site O	bservation

Table B (Cont'd) Compliance Review – Statement of Commitments

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SoC No.	Commitment	Compliance	Comments	Basis*	
Acid Sulfate Soils and Sediments, Soil Contamination and Agricultural Suitability (Cont'd)					
9.28	Complete the following in the event that validation or monitoring criteria are exceeded for topsoil, loamy sand or sand.	Not Applicable	Operations have not yet commenced.	A, D	
	Test the acid neutralising capacity of the stripped topsoil or hydraulically separated sands.				
	 Incorporate alkaline amendments at the appropriate rate if the measured acid neutralising capacity is insufficient to neutralise the existing and potential acidity. 				
	Undertake validation testing following treatment of loamy sand and unprocessed sand and apply additional alkaline amendments as required. Repeat process until compliance with action criteria is met.				
9.29	Terminate VENM(b) receipt at the premises if the pH of the water falls below accepted levels, until approval to continue is received in writing from the DECC(EPA).	Not Applicable	Operations have not yet commenced.	A, D	
9.30	Complete the following in the event monitoring criteria are exceeded for imported VENM(b).	Not Applicable	Operations have not yet commenced.	A, D	
	 Sample at the maximum rate of one sample / 1 000m³ and test for _{SCR} and total actual acidity. 				
	 Treat the material with the calculated amount of alkaline amendment if any records indicate _{SCR} >0.03% or total actual acidity >18mol H+/t. 				
	Treat the material with the calculated amount of alkaline amendment. Undertake verification testing at the rate of 1 sample/per 1 000m³ to confirm _{SCR} <0.03% and total actual acidity <18mol H+/t prior to final placement or further processing				
9.31	Undertake the following as soon as possible after becoming aware that any waste/material accepted at the premises is not VENM.	Not Applicable	Operations have not yet commenced.	A, D	
	Notify the EPA in writing.				
	Remove the material/waste from the premises and dispose of it at a facility licensed to take such waste.				
	 Implement a procedure to audit all further incoming loads from that waste origin site prior to accepting any further waste, until such time as the results of such audits demonstrate that the waste origin site's screening and assessment procedures have been corrected to prevent further miss-classification of waste. 				
9.32	Introduce hydrated lime at the appropriate rate if the extraction pond water quality fails accepted levels and ensure target pH level of 6.5 to 8.5 is not "overshot" leading to severely alkaline conditions (pH>9.0).	Not Applicable	Operations have not yet commenced.	A, D	
* D = Do	cumentation sighted A = Advised by Comp	any	O = On-site Ob	servation	

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Table B (Cont'd) Compliance Review – Statement of Commitments

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SoC No.	Commitment	Compliance	Comments	e 8 of 12 Basis*
Flora a	nd Fauna	<u>'</u>		
10.1	Progressively rehabilitate completed works within the Project Site to maximise cover of native vegetation in appropriate areas and minimise opportunities for erosion and weed invasion.	Not Yet Applicable	Operations have not yet commenced.	A, D
10.2	Define and clearly mark vegetation for retention prior to the commencement of site establishment to ensure that native vegetation clearing is confined only to those areas required for Project operations.	Not Yet Applicable	Operations have not yet commenced.	A, D
10.3	Control noxious weeds on the Project Site.	Compliant	Weed control is undertaken as part of the current cattle agistment.	A
10.4	Place pipelines within pipeline corridors so as to avoid the need to clear trees or shrubs, wherever possible.	Not Yet Applicable	The pipelines have not yet been installed.	A, D
10.5	Utilise local native plant species recommended by Idyll Spaces (2008) for rehabilitation and landscaping. Within and adjacent the final lake (Note: vegetation set back from the final lake would reflect the specific land use – e.g. sporting fields, gardens, etc).	Not Yet Applicable	Operations have not yet commenced.	A, D
10.6	Undertake replacement planting of the same tree species within the same area in the unlikely event that a small number of trees are required to be removed for the laying of the pipelines.	Not Yet Applicable	Operations have not yet commenced.	A, D
Aquatio	Ecology			
11.1	During the realignment of the western drainage channel as part of the realignment of Altona Drive.	Not Yet Applicable	Altona Drive has not yet been realigned.	A, D
	 maintain the original connection to other upstream and downstream drainage channels; 			
	 avoid stranding native fish and, where possible, relocate them to similar habitat; 			
	ensure fish free passage through the channel is made available where permanent crossings are to be constructed (e.g. access road crossings); and			
	 consult with DPI and DECC officers during the realignment process. 			
11.2	Create wetlands along finalised sections of the southern extraction pond (see Commitment No. 5.2).	Not Yet Applicable	The southern extraction pond has not yet been completed.	D
11.3	Develop a Blue-Green Algae Management Plan incorporating a monitoring program.	See Tal	ble A Schedule 3 Condition	23
11.4	Undertake frequent and regular monitoring of temperature, dissolved oxygen, nutrients, colour and concentrations of blue-green algae.	Not Yet Applicable	Extraction operations have not yet commenced.	A, D
11.5	Obtain samples and readings from the upper 0.5m of the water at least at four locations around the periphery of the dredge pond and two in the centre.	Not Yet Applicable	Extraction operations have not yet commenced.	A, D
* D = Do	ocumentation sighted A = Advised by Comp	pany	O = On-site Ob	servation

Table B (Cont'd) Compliance Review – Statement of Commitments

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No vehicles permitted to turn right from Crescent Street to Tweed Coast Road. (Note: Light vehicles travelling south from the Project Site would be directed to travel on Crescent Street/Cudgen Road. No heavy vehicles to turn right from Altona Drive to Crescent Street.	Not Yet Applicable	Operations have not yet commenced.	A, D
No vehicles permitted to turn right from Crescent Street to Tweed Coast Road. (Note: Light vehicles travelling south from the Project Site would be directed to travel on Crescent Street/Cudgen Road. No heavy vehicles to turn right from Altona Drive to Crescent Street.	Applicable		A, D
Crescent Street.	Not Yet		
1A/ : 1 II	Applicable	Operations have not yet commenced.	A, D
Weigh all product trucks using the on-site weighbridge and ensure all RTA weight restrictions are adhered to.	Not Yet Applicable	Transport operations have not yet commenced.	А
Inform all truck drivers and staff of road rules, speed restrictions and considerate driving practices.	Not Yet Applicable	Transport operations have not yet commenced.	A
Ensure all drivers are aware of all relevant operational hours (See also Commitment No. 3.5).	Not Yet Applicable	Transport operations have not yet commenced.	Α
Undertake mechanical road sweeping of Altona Drive and site access roads.	Not Yet Applicable	Operations have not yet commenced.	Α
Cover all product loads to reduce dust lift off.	Not Yet Applicable	Transport operations have not yet commenced.	A
Realign Altona Drive in accordance with DA 05/1450.	Not Yet Applicable	Operations have not yet commenced.	A, D
Construct the upgraded intersection of Altona Drive and Crescent Street together with a short section of road to link with the existing Altona Drive and an additional two passing bays along the existing alignment of Altona Drive.	Not Yet Applicable	Operations have not yet commenced.	A, D
Construct the four entrances to the Project Site from Altona Drive with the sealed carriageway of Altona Drive flared out to 9m wide for approximately 15m in advance of each access (from the right hand turn perspective) using a 25m transitional length. Ensure the access road is 10m wide at its intersection with Altona Drive providing a 15m inside radius for the left hand turn out.	Not Yet Applicable	Operations have not yet commenced.	A, D
Implement appropriate management controls including the use of warning signs and manual traffic control during the laying of pipelines adjacent to Tweed Coast Road and during the underboring of the road crossings.	Not Yet Applicable	The pipelines have not yet been installed.	A, D
Establish a telephone complaints line, advertised in the local telephone directory, to enable any traffic-related incidents, unsafe operation or general concern to be reported. Investigate all complaints and act decisively on substantiated incidents.	Not Yet Applicable	Operations have not yet commenced.	A, D
Implement a truck driver's code of conduct required to be signed by all Company employed or contracted truck drivers. The code will outline each truck driver's responsibility and the process to be undertaken in the event of a complaint.	Not Yet Applicable	Operations have not yet commenced.	A, D
	restrictions and considerate driving practices. Ensure all drivers are aware of all relevant operational hours (See also Commitment No. 3.5). Undertake mechanical road sweeping of Altona Drive and site access roads. Cover all product loads to reduce dust lift off. Realign Altona Drive in accordance with DA 05/1450. Construct the upgraded intersection of Altona Drive and Crescent Street together with a short section of road to link with the existing Altona Drive and an additional two passing bays along the existing alignment of Altona Drive. Construct the four entrances to the Project Site from Altona Drive with the sealed carriageway of Altona Drive flared out to 9m wide for approximately 15m in advance of each access (from the right hand turn perspective) using a 25m transitional length. Ensure the access road is 10m wide at its intersection with Altona Drive providing a 15m inside radius for the left hand turn out. Implement appropriate management controls including the use of warning signs and manual traffic control during the laying of pipelines adjacent to Tweed Coast Road and during the underboring of the road crossings. Establish a telephone complaints line, advertised in the local telephone directory, to enable any traffic-related incidents, unsafe operation or general concern to be reported. Investigate all complaints and act decisively on substantiated incidents. Implement a truck driver's code of conduct required to be signed by all Company employed or contracted truck drivers. The code will outline each truck driver's responsibility and the process to be undertaken in the event of a complaint.	restrictions and considerate driving practices. Ensure all drivers are aware of all relevant operational hours (See also Commitment No. 3.5). Undertake mechanical road sweeping of Altona Drive and site access roads. Cover all product loads to reduce dust lift off. Realign Altona Drive in accordance with DA 05/1450. Realign Altona Drive in accordance with DA 05/1450. Construct the upgraded intersection of Altona Drive and Crescent Street together with a short section of road to link with the existing Altona Drive and an additional two passing bays along the existing alignment of Altona Drive flared out to 9m wide for approximately 15m in advance of each access (from the right hand turn perspective) using a 25m transitional length. Ensure the access road is 10m wide at its intersection with Altona Drive providing a 15m inside radius for the left hand turn out. Implement appropriate management controls including the use of warning signs and manual traffic control during the laying of pipelines adjacent to Tweed Coast Road and during the underboring of the road crossings. Establish a telephone complaints line, advertised in the local telephone directory, to enable any traffic-related incidents, unsafe operation or general concern to be reported. Investigate all complaints and act decisively on substantiated incidents. Implement a truck driver's code of conduct required to be signed by all Company employed or contracted truck drivers. The code will outline each truck driver's responsibility and the process to be undertaken in the event of a complaint.	restrictions and considerate driving practices. Ensure all drivers are aware of all relevant operational hours (See also Commitment No. 3.5). Undertake mechanical road sweeping of Altona Drive and site access roads. Cover all product loads to reduce dust lift off. Realign Altona Drive in accordance with DA 05/1450. Realign Altona Drive in accordance with DA 05/1450. Construct the upgraded intersection of Altona Drive and link with the existing Altona Drive and an additional two passing bays along the existing alignment of Altona Drive lared out to 9m wide for approximately 15m in advance of each access (from the right hand turn perspective) using a 25m transitional length. Ensure the access road is 10m wide at its intersection with Altona Drive providing a 15m inside radius for the left hand turn out. Implement appropriate management controls including the use of warning signs and manual traffic control during the laying of pipelines adjacent to Tweed Coast Road and during the underboring of the road crossings. Establish a telephone complaints line, advertised in the local telephone directory, to enable any traffic-related incidents, unsafe operation or general concern to be reported. Investigate all complaints and act decisively on substantiated incidents. Implement a truck driver's code of conduct required to be signed by all Company employed or contracted truck drivers. The code will outline each truck driver's responsibility and the process to be undertaken in the event of a complaint.

Table B (Cont'd) Compliance Review – Statement of Commitments

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SoC			rage	10 of 12
No.	Commitment	Compliance	Comments	Basis*
Noise				
13.1	Acoustically treat the dredge including the enclosure of the engine with acoustic louvres and install a high performance muffler.	Not Yet Applicable	Extraction operations have not yet commenced.	A, D
13.2	Undertake a series of tests prior to commissioning the sand processing plant to ensure compliance with the noise limits at all locations and confirm that the equipment to be used on the Project Site have sound power levels comparable to those used within the noise modelling assessment.	Not Yet Applicable	Processing operations have not yet commenced.	A, D
13.3	Install an acoustic fence on the processing area bund (see Figure 2.6) to increase the height of the noise barrier on the southern side of the processing area.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.4	Enclose the noisier components of the equipment to promote noise reduction of the plant.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.5	Fit all mobile vehicles on the site with broadband type reversing beepers or alternative safety devices such as strobe lights and / or cameras.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.6	Regularly service all equipment on site to ensure sound power levels of each item remains at or below that nominated for noise modelling purposes.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.7	Maintain the internal road network to an acceptable standard to limit body noise from empty trucks.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.8	Strictly adhere to all approved hours of operation.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.9	Undertake a program of noise monitoring to confirm that noise emission levels from the site establishment and construction period are within acceptable limits at the surrounding assessment locations.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.10	Undertake an ongoing monitoring program to demonstrate that noise emissions from the Project Site are within the Project specific noise limits at the surrounding assessment locations.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.11	Regularly review the extent of noise monitoring throughout the life of the Project to ensure meaningful data is being collected.	Not Yet Applicable	Operations have not yet commenced.	A, D
Air Qua	lity			
14.1	Install water sprays to control dusts generated during screening and dry processing.	Not Yet Applicable	Processing operations have not yet commenced.	A, D
14.2	Undertake progressive rehabilitation / stabilisation of available areas of disturbance (e.g. finalised sections or backfilled areas of the extraction ponds).	Not Yet Applicable	Extraction operations have not yet commenced.	A, D
14.3	Clean accumulated tracked road mud, dry dusts, sand or spillages on Altona Drive using a street sweeper.	Not Yet Applicable	Transport operations have not yet commenced.	А
14.4	Cover product trucks loads to prevent wind-borne losses and spillages.	Not Yet Applicable	Transport operations have not yet commenced.	А
* D = Do	ocumentation sighted A = Advised by Comp	any	O = On-site Ob	servation

Table B (Cont'd) Compliance Review – Statement of Commitments

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	Page 11				
SoC No.	Commitment	Compliance	Comments	Basis*	
Air Qua	ality (Cont'd)				
14.5	Prepare an air monitoring program to ensure that DECC air quality goals for dust (TSP, PM ₁₀ and deposited dust) are met.		ble A Schedule 3 Condition	n 9	
14.6	Undertake monitoring in accordance to the DECC document "Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales" (DECC, 2005), and more specifically, in accordance with AS 2922-1987 "Ambient Air – Guide for the Siting of Sampling Units" (NSW DECC Method AM-1) and AS 3580.9.6-2003 "Particulate Matter – PM ₁₀ – high volume sampler with size-selective inlet".	Not Yet Applicable	Operations have not yet commenced.	A, D	
14.7	Annually review the dust monitoring program to ensure that the data being collected is meaningful.	Not Yet Applicable	The program has not yet been approved and operations have not yet commenced.	A, D	
14.8	Ensure the screening and blending plant does not exceed a daily <u>average</u> processing rate greater than 100tph.	Not Yet Applicable	Processing operations have not yet commenced.	A, D	
Aborigi	nal Heritage				
15.1	Invite any Aboriginal stakeholders to observe during the burying of the pipelines within the northern pipeline corridor.	Not Yet Applicable	The pipelines have not yet been installed.	A, D	
15.2	Stop works at and adjacent to any Aboriginal sites or relics, if found.	Not Applicable	No Aboriginal sites have been identified.	А	
15.3	Contact the regional archaeologist of the Coffs Harbour DECC and relevant Aboriginal Stakeholders if any Aboriginal sites or relics, if found.	Not Applicable	No Aboriginal sites have been identified.	А	
15.4	Receive authorisation from the DECC and Tweed Byron LALC prior to proceeding with any works in the vicinity of any identified Aboriginal sites or relics, if found.	Not Applicable	No Aboriginal sites have been identified.	А	
15.5	Prepare a simple Cultural Heritage Information booklet for use in induction of employees and contractors.	Compliant	The Aboriginal Cultural Heritage Management Plan will act as the induction manual.	D	
15.6	Undertake agency consultation with Aboriginal representatives in relation to the ongoing management of identified items of Aboriginal heritage.	Not Applicable	No Aboriginal sites have been identified.	A	
Visibilit	у				
16.1	Surround the processing area by a 3m high bund planted with native shrub species.	Not Yet Applicable	Construction operations have not yet commenced.	A, D	
16.2	Plant a visual screen between the eastern extent of the extraction sites and Tweed Coast Road providing visual screening from motorists on Tweed Coast Road.	See Tak	ble A Schedule 3 Condition	41.	
16.3	Progressively rehabilitate the Project Site such that non-vegetated areas would be minimised.	Not Yet Applicable	Extraction operations have not yet commenced.	A, D	
* D = Do	ocumentation sighted A = Advised by Comp	any	O = On-site Ob	servation	

Cudgen Lakes Sand Quarry Appendix 1

Table B (Cont'd) Compliance Review – Statement of Commitments

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SoC No.	Commitment	Compliance	Comments	Basis*
Visibilit	y (Cont'd)			
16.4	Maintain the Project Site in a clean and tidy condition at all times.	Compliant	Quarry Site, although not operational, is maintained in a clean and tidy condition.	A
16.5	Implement air quality controls (see Commitment No. 14).	See Table B Commitment No. 14		
16.6	Position and direct floodlights or other lighting to minimise light emissions, with lighting not required at any given time not used.	Not Yet Applicable	Operations have not yet commenced.	A, D
* D = Do	ocumentation sighted A = Advised by Comp	anv	O = On-site Ob	servation

Table C Compliance Review – Environmental Protection Licence 12385

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Cond.		Commitment		Compliance	Comments	Page 1 of 8
No.				Compliance	Comments	Dasis
	nistrative Conti					
		thorises and regulate		T	Т	
A1.1	This licence authorises the carrying out of the scheduled development work listed below at the premises listed in A2:		low at the	Compliant	No other scheduled development works undertaken during the	A
		nove 400 000 cubic met hydraulic transportatio opment.			reporting period.	
A1.2	scheduled active specified in A2. their scheduled	thorises the carrying ou vities listed below at the The activities are listed activity classification, f and the scale of the oper	premises d according to fee-based activity	Compliant	No extraction occurred during the reporting period (i.e. extraction did not exceed the licenced scale).	A, D
	this licence, the	se further restricted by a scale at which the action could be maximum scale.	ivity is carried			
	Scheduled Activity	Fee Based Activity	Scale			
	Extractive Activities	Water-based extractive activity	0 - 30000 m3 extracted			
A1.3	until the schedu	ust not carry on any sc uled development work: vhere provided in this li	s are completed,	Compliant	No scheduled activities were undertaken during the reporting period.	A
A2 Pren	nises or plant to	which this licence a	pplies			
A2.1	The licence app	olies to the following pre	emises:	Noted	-	-
	Premises Det	ails				
	CUDGEN LAKE	ES]		
	CRESCENT ST	TREET]		
	CUDGEN]		
	NSW 2487					
	LOT 2 DP 2167	'05, LOT 1 DP 828298, L	OT 2 DP 828298			
A3 Info	rmation supplie	d to the EPA				
A3.1	with the propos except as expre licence.	vities must be carried o al contained in the licer essly provided by a con	nce application, dition of this	Compliant	No operations were undertaken during the reporting period (and therefore no inconsistencies have	A, D
		n the reference to "the li ludes a reference to:	icence		arisen).	
	c) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and					
	licensee connection	ce information form p to the EPA to assi n with the issuing of this	ist the EPA in slicence.			
* D = Do	cumentation sighte	ed /	A = Advised by Com	ıpany	O = On-site Of	oservation

Table C (Cont'd) Compliance Review – Environmental Protection Licence 12385

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						Page 2 of 8	
Cond. No.		Com	mitment		Compliance	Comments	Basis*
2 Disch	arges to	Air and Water an	d Application	ons to Land			
P1 Loca	ation of m	nonitoring/discha	arge points	and areas			
P1.1	identified monitoria	wing points referr d in this licence fo ng and/or the setti s to water from th	r the purpose ing of limits f	es of the	Noted	-	-
P1.2	below ar the moni applicati	wing utilisation ar e identified in this itoring and/or the on of solids or liqu	licence for the setting of lim	he purposes of its for any	Noted	Monitoring undertaken at this point.	D
	Water ar	nd Land					
	EPA Id. No.	Type of Monitoring Point	Type of Discharge Point	Location Description			
	1	Water Quality Monitoring		Dredge Pond			
3 Limit	Condition	าร					
L1 Pollu	ution of w	aters					
L1.1	condition section 1	ns may be express n of this licence, th 120 of the Protections Act 1997.	ne licensee n	nust comply with	Compliant	No pollution of waters is deemed to have occurred during the reporting period.	A, D
L2 Nois	e limits						
L2.1	Noise from the dredge pond must not exceed an LA _{eq(15 minute)} noise emission criterion of 46 dB(A) during 7am to 5pm Monday to Friday and 7am to 1pm on Saturdays. Where LAeq means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period, except as expressly provided by this licence.			Compliant	As no operational activities occurred during the reporting period, no exceedance of noise criterion will have occurred.	A, D	
L2.2	Noise from the premises is to be measured at the nearest noise sensitive receiver to determine compliance with this condition. Note: Noise generated from the fill site must be managed according to the licensee's Construction Noise Management Plan (Ron Rumble Pty Ltd, October 2005).			Not Applicable	As no operational activities occurred during the reporting period, no noise monitoring was required.	A, D	
L3 Hour	rs of oper	ration					
L3.1	Activities covered by this licence must only be carried out between the hours of 0700 and 1800 Monday to Friday, and 0700 and 1300 Saturday, and at no time on Sundays and Public Holidays.			00 Monday to and at no time	Compliant	No licenced activities occurred (within or outside of the approved hours).	A
* D = Do	cumentatio	on sighted	F	A = Advised by Con	npany	O = On-site Ob	servation

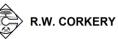


Table C (Cont'd) Compliance Review – Environmental Protection Licence 12385

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Cond.				age 3 of 8
No.	Commitment	Compliance	Comments	Basis*
4 Opera	ating Conditions			
O1 Acti	vities must be carried out in a competent manner			
O1.1	Licensed activities must be carried out in a competent manner. This includes: a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.	Compliant	No operational activities occurred. Water monitoring undertaken by HMC Environmental Consultants in a competent manner.	A, D
O2 Maiı	ntenance of plant and equipment			
O2.1	All plant and equipment installed at the premises or used in connection with the licensed activity: a) must be maintained in a proper and efficient condition; and b) must be operated in a proper and efficient	Not Applicable	No plant or equipment was in place at the premises during the reporting period.	A, D
	manner.			
O3 Dus	t			
O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	Compliant	The sand stockpile created by the initial dredge pond has been grassed over. No complaints or issues have arisen.	A, D
O4 Prod	cesses and management			
O4.1	This licence prohibits any discharge from active dredge ponds. Any pond subject to dredging, or containing turbid water due to recent dredging must be maintained and operated to prevent discharges of any water from these ponds. A vegetated barrier must be used at all times to ensure that the active dredge and fines placement area / pond are isolated from stormwater drainage channels.	Not Applicable	No dredging has been undertaken since 2006 and therefore no active dredge pond present during the reporting period.	A, D
O4.2	The fill site must be adequately bunded to ensure that all tail water is retained within the tail water pond and that all fill material is retained within the site.	Not Applicable	No fill material was pumped to the fill site.	A, D
O5 Othe	er operating conditions			
O5.1	The licensee must assess and manage any acid sulfate soil (ASS) and potential acid sulfate soil PASS) in accordance with the 1998 <i>Acid Sulfate Soils Manual</i> published by the NSW Acid Sulfate Soil Management Advisory Committee (ASSMAC).	Compliant	As no operational activities occurred during the reporting period no specific ASS / PASS management measures were necessary.	A, D
*D = Dc	ocumentation sighted A = Advised by Com	pany	O = On-site Ob	servation

Table C (Cont'd) Compliance Review – Environmental Protection Licence 12385

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Cond.		•			0 "		age 4 of 8
No.		Commit			Compliance	Comments	Basis*
	toring and Reco		ions				
M1 Mon	itoring records						ı
M1.1	The results of a by this licence recorded and re	or a load calcu	lation protoc	ol must be	Compliant	The monitoring records have been retained as required.	D
M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.			Compliant	Monitoring has been retained in a legible form for more than 4 years. No requests from an EPA officer were received.	A, D	
M1.3	The following resamples require this licence: a) the date(s) b) the time(s) c) the point a	ecords must be do to be collected to be collected on which the at which the safet the person to the	e kept in respeted for the pusample was cample was cample was takewho collected	taken; collected; ken; and d the sample.	Compliant	Monitoring records contain all required information.	D
M2.1	For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:		Compliant	Monitoring undertaken in accordance with these requirements.	D		
M2.2	Water and/ or L	and Monitorin	g Requireme	ents.	Compliant	All required analytes	D
	Pollutant	Units of measure	Frequency	Sampling Method		were sampled at the frequency required using in situ methods.	
	Dissolved Oxygen	milligrams per litre	Quarterly	In situ		in old motileds.	
	рН	рН	Quarterly	In situ			
	Redox potential	millivolts	Quarterly	In situ			
	Salinity	millisiemens per centimetre	Quarterly	In situ			
	Temperature	degrees Celsius	Quarterly	In situ			
M3 Test	ing methods -	concentration	limits				
M3.1	Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.				Not Applicable	No discharges or application of water occurred during the reporting period.	А
* D = Do	cumentation sight	ed	A = A	Advised by Com	ipany_	O = On-site Ob	servation

Table C (Cont'd) Compliance Review – Environmental Protection Licence 12385

<u> </u>			Р	age 5 of 8
Cond. No.	Commitment	Compliance	Comments	Basis*
5 Monito	oring and Recording Conditions (Cont'd)			
M4 Reco	ording of pollution complaints			
M4.1	The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.	Not Applicable	No complaints received during the reporting period.	A, D
M4.2	The record must include details of the following:	Not	No complaints received	A, D
	a) the date and time of the complaint;	Applicable	during the reporting period.	
	b) the method by which the complaint was made;		period.	
	c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;			
	d) the nature of the complaint;			
	e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and			
	f) if no action was taken by the licensee, the reasons why no action was taken.			
M4.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Not Applicable	No complaints received during the previous 4 years.	A, D
M4.4	The record must be produced to any authorised officer of the EPA who asks to see them.	Not Applicable	No requests received during the reporting period.	А
M5 Tele	phone complaints line			
M5.1	The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.	Compliant	The mobile phone contact for the Managing Director, 0414 322 455, was the relevant complaints contact during the reporting period.	A, D
M5.2	The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.	Compliant	The complaints number is included on the Company website.	A, D
M5.3	The preceding two conditions do not apply until 3 months after: a) the date of the issue of this licence or	No Longer Applicable	The licence was issued 18/11/2005 (i.e. more than 3 months prior).	D
*D D-	b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.	2004	O On site Oh	Doon/ofice
סט = ט	cumentation sighted A = Advised by Com	pany	O = On-site Ob	servation

Table C (Cont'd) Compliance Review – Environmental Protection Licence 12385

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Cond.	Commitment	Compliance	Comments	age 6 of 8 Basis*
No. 6 Repor	ting Conditions			
-	ual return documents			
R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:	Compliant	The completed annual return for the period 18	D
	a) a Statement of Compliance; and		November 2011 to 17 November 2012 was	
	b) a Monitoring and Complaints Summary.		received by the EPA on	
	At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.		14 January 2013.	
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.	Compliant	The completed annual return for the period 18 November 2011 to 17 November 2012 was received by the EPA on 14 January 2013.	D
R1.3	Where this licence is transferred from the licensee to a new licensee:	Not Applicable	The licence has not been transferred.	D
	a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and			
	b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.			
R1.4	Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:	Not Applicable	The licence has not been surrendered.	D
	a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or			
	b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.			
R1.5	The Annual Return for the reporting period must be supplied to the EPA by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').	Compliant	The completed annual return for the period 18 November 2011 to 17 November 2012 was received by the EPA on 14 January 2013.	D
R1.6	The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.	Compliant	Copies of annual returns retained for more than 4 years.	А
* D = Do	cumentation sighted A = Advised by Com	ipany	O = On-site Ob	servation

Table C (Cont'd) Compliance Review – Environmental Protection Licence 12385

0 1		T	F	Page 7 of 8
Cond. No.	Commitment	Compliance	Comments	Basis*
6 Repor	ting Conditions (Cont'd)			
R1 Annı	ual return documents (Cont'd)			
R1.7	Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:	Compliant	The Annual Return was signed by the licenced holder.	Α
	a) the licence holder; or			
	b) by a person approved in writing by the EPA to sign on behalf of the licence holder.			
R1.8	A person who has been given written approval to certify a certificate of compliance under a licence issued under the <i>Pollution Control Act 1970</i> is taken to be approved for the purpose of this condition until the date of first review of this licence.	Noted	-	-
	Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.			
	Note: An application to transfer a licence must be made in the approved form for this purpose.			
R2 Notif	fication of environmental harm			
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.	Noted	-	-
R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.	Not Applicable	No reportable incidents occurred during the reporting period.	A, D
	Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.			
R3 Writt	ten report			
R3.1	Where an authorised officer of the EPA suspects on reasonable grounds that:	Not Applicable	No requests received.	А
	where this licence applies to premises, an event has occurred at the premises; or			
	b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.			
* D = Do	cumentation sighted A = Advised by Com	ipany	O = On-site Ol	bservation

Table C (Cont'd) Compliance Review – Environmental Protection Licence 12385

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Cond. No.		Commitment	Compliance	Comments	age 8 of 8
6 Repor	ting	Conditions (Cont'd)			
R3 Writt	en r	eport (Cont'd)			
R3.2	rela	licensee must make all reasonable inquiries in tion to the event and supply the report to the EPA in such time as may be specified in the request.	Not Applicable	No requests received.	A
R3.3		request may require a report which includes any II of the following information:	Not Applicable	No requests received.	А
	a)	the cause, time and duration of the event;			
	b)	the type, volume and concentration of every pollutant discharged as a result of the event;			
	c)	the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;			
	d)	the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;			
	e)	action taken by the licensee in relation to the event, including any follow-up contact with any complainants;			
	f)	details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and			
	g)	any other relevant matters.			
R3.4	in re sati: lice:	EPA may make a written request for further details elation to any of the above matters if it is not sfied with the report provided by the licensee. The nsee must provide such further details to the EPA in the time specified in the request.	Not Applicable	No requests received.	A
7 Gener	al Co	onditions			
G1 Cop	y of I	licence kept at the premises or plant			
G1.1		ppy of this licence must be kept at the premises to ch the licence applies.	Yes	A copy is retained by the site caretaker.	А
G1.2		licence must be produced to any authorised officer ne EPA who asks to see it.	Not Applicable	No requests received.	А
G1.3	emp prer	licence must be available for inspection by any ployee or agent of the licensee working at the mises.	Yes	A copy is retained by the site caretaker and is available upon request.	A
* D = Do	cume	entation sighted A = Advised by Com	ipany	O = On-site Ob	servation

Table D Compliance Review – Water Licence 30BL179511

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0- 1	T	1	P	age 1 of 3 I
Cond. No.	Commitment	Compliance	Comments	Basis*
1.	The licensee must allow authorised officers to the department of water and energy, and its authorised agents reasonable access to the licensed works with vehicles and equipment at any time for the purposes of:	Compliant	No access known to have occurred during reporting period.	A
	 Inspecting the said work. Taking samples of any water or material in the work and testing the samples. 			
2.	If the licensee proposes to cease using the work, they must notify the department of water and energy of their intention to do so, in writing at least three months in advance.	Not Applicable	The Company did not propose to cease using the work during the reporting period.	A
3.	In the event that any notice is given pursuant to Condition 2, the licensee must submit a proposal to the department indicating how the licensed work is to be sealed and rendered safe.	Not Applicable	As above	A
4.	The licensee must carry out any works directed to be carried out by the Department of Water and Energy for remediation of the site caused by contamination of soil/groundwater, or changes to the works structure, including: capping, slope, bank stabilisation and revegetation upon completion of filling operations. Monitoring of the site is required for a period of 3 years or a period as may be agreed to by the department of water and energy.	Not Applicable	No directions received during the reporting period.	A
5.	The authorised work shall not be used for the discharge of polluted water into a river or lake otherwise than in accordance with the conditions of a licence granted under the <i>Protection of the Environment Operations Act 1997.</i> A copy of the licence to discharge is to be provided to the department of water and energy.	Compliant	The initial dredge pond has not been used to discharge polluted water.	A
6.	The licensee must not enlarge the work extension beyond the following dimensions: 270 metres long, 200 metres wide and 8.5 metres in depth. The location of the licensed work is shown on Figure 2 of the Gilbert & Sutherland correspondence dredge pond detail held at the Department's Grafton office.	Compliant	The initial dredge pond is less than the maximum allowable dimensions.	D
7.	The licensee must manage the work in such a way that the natural water levels are maintained in the acid sulfate soils of the surrounding environment.	Compliant	No dredging or other water extracting operations occurred during the reporting period.	A
8.	The licensee must manage the work in such a way that by-products from any acid sulfate soils placed in the work do not escape into the groundwater systems surrounding the work.	Compliant	No acid sulfate soils were placed within the initial dredge pond during the reporting period.	A
9.	The licensed work must not be filled with silts and fines from the sand mining operation to a level higher than 6.5 metres below 0.0 AHD (Australian Height Datum).	Compliant	No silts or fines have been placed within the initial dredge pond.	А
10.	At all times, the silts and fines in the excavated work must be covered by at least 6.5 metres of water	Not Applicable	No silts or fines have been placed within the initial dredge pond.	A
* D = Documentation sighted A = Advised by Company O = On-site Of			servation	

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Table D (Cont'd) Compliance Review – Water Licence 30BL179511

Page 2 of 3

Cond. No.	Commitment	Compliance	Comments	Basis*
11.	The licensee must manage the work in such a way that the quality of the surrounding groundwater is not diminished.	Compliant	Given no operational activities were undertaken and the sand stockpile has been grassed, it is considered that compliance will have been achieved.	A
12.	The licensee must ensure that any silts and fines that are put into the licensed work enter the said work at least 3 metres below the surface of any water in the said work.	Not Applicable	No silts or fines have been placed within the initial dredge pond.	A
13.	The licensee must take measurements of groundwater field parameters at one location within the excavation as follows:	Not Applicable	Operational dredging has not yet commenced.	A, D
	Every week groundwater parameters are to be measured at 0.5 metres below the surface water level for pH, EC(electrical conductivity), DO (dissolved oxygen), EH (redox potential) once. Should the pH fall below 5.0 then lime should be immediately added to the water in the excavation until the pH is restored to approximately 7 pH.			
	Every three months groundwater parameters are to be recorded at 1 metre vertical intervals measured from the water surf ace to the base of the licensed work (excavation) for pH, EC (electrical conductivity), do (dissolved oxygen), eh (redox potential) once.			
	Provide copies of the instrument calibration at the time the readings were undertaken to the department of water and energy with the annual report as outlined in condition 16.			
14.	The licensee must test the water from five (5) monitoring bores (excavation as defined in Figure 2 Coffey report) and at one location from within the licensed work (at a sample depth of 0.5m) on a monthly basis during the sand extraction period and on a quarterly basis post mining. The locations of these bores are as follows:	Not Yet Applicable	Operational dredging has not yet commenced.	A
	1) South west of the excavation (MB 1)			
	2) West of the excavation (MB2)			
	3) North west of the excavation (MB3)			
	4) North east of the excavation (MB4)			
	5) East of the excavation (MB5).			
* D = D	ocumentation sighted A = Advised by Com	npany	O = On-site Ob	servation

Table D (Cont'd) Compliance Review – Water Licence 30BL179511

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Cond. No.	Commitment	Compliance	Comments	age 3 of 3 Basis*
14. (cont'd)	The following analytes are to be tested from these bores:			
	(A) Cations / Anions (CA, MG, NA, KLHC03, S04, CL)			
	(B) Dissolved Iron (Fe)			
	(C) Dissolved Arsenic (As)			
	(D) Dissolved Aluminium (Al)			
	(E) Dissolved Manganese (Mn)			
	As well as the following field parameters:			
	(A) pH			
	(B) Electrical Conductivity (EC)			
	(C) Dissolved Oxygen (DO)			
	(d) Redox Potential (Eh)			
	This information is to be included in the annual report as outlined in condition 16. The licensee must with the annual report furnish to the department of water and energy analysis certificates prepared by a NATA registered laboratory.			
15.	The licensee shall record the groundwater levels in the sand excavation and the monitoring bores at monthly intervals and determined groundwater flow contours (relative to AHD) to show the groundwater flow directions on the site. This information is to be included in the annual report as outlined in condition 16.	Not Yet Applicable	Operational dredging has not yet commenced.	A
16.	The licensee shall engage a qualified consult ant to prepare a groundwater management report based on the data collected on a yearly basis and both a hard copy and digital copy forwarded to the department of water and energy hydrogeology section in Grafton. In the event that a groundwater mound is found to be forming beneath the work or groundwater around the work has been contaminated, the licensee must inform this department within 14 days of the event being ascertained.	Not Yet Applicable	Operational dredging has not yet commenced.	A
17.	A buffer of 30 metres shall be maintained as a minimum from any crown lands.	Compliant	No activities have been undertaken within 30m of crown lands.	D
18.	Security is to be given and provided for the purpose of ensuring the due and proper compliance with the conditions of the licence. The licensee shall lodge with the department prior to the grant of this licence a security deposit in the form of the document attached as form SGL.	Compliant	A \$100,000 security bond has been lodged with the Department.	A

GALES-KINGSCLIFF PTY LTD

2012/2013 ANNUAL REVIEW *Report No. 617/27*

Cudgen Lakes Sand Quarry Appendix 1

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