

Champions Quarry Expansion

**ANNUAL REVIEW
2016**

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GLOSSARY

ANZECC Guidelines	Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000) default trigger level for slightly disturbed ecosystem in in south eastern Australia for upland and lowland rivers
CCC	Community Consultative Committee
DG	Director-General (or a delegate) of the Department of Planning and Infrastructure
DoP	Department of Planning
DP & E	Department of Planning and Environment previously known as DoP and DP & I
DRE	Division of Resources and Energy within the Department of Trade and Investment, Regional Services and Infrastructure
EA	Champions Quarry Expansion, Environmental Assessment Report prepared by ERM Pty Limited and dated February 2010
EA Documents	Incorporating the EA, RTS and PPR documents
EPA	NSW Environment Protection Authority
INP	NSW Department of Environment, Climate Change and Water's (DECCW) Industrial Noise Policy (INP), (EPA 2000)
LCC	Lismore City Council
NAL	Noise Assessment Location
NOW	NSW Office of Water, within the Department of Primary Industries
Notice of Modification	Any Notice of Modification issued pursuant to Section 75W of the EP & A Act
NHMRC Guidelines	National Health and Medical Research Council (2004) Australian Drinking Water Guidelines
OEH	Office of Environment and Heritage within the Department of Premier and Cabinet
PPR	Champions Quarry Expansion, Preferred Project Report prepared by ERM Pty Limited and dated December 2011
Project Approval	Project Approval/Conditions of Approval (incorporating the Statement of Commitments) issued by Planning and Assessment Commission of New South Wales dated 30 August 2012 as amended
Proponent	Champions Quarry 2 Pty Ltd and any other entity or person who seeks to carry out the development approved under the Project Approval

RMS	Roads and Maritime Services
Response to Submissions (RTS)	Champions Quarry Response to Submissions, prepared by ERM Pty Limited and dated September 2010 and containing the Proposed Quarry Management Plan
Statement of Commitment	Statement of Commitment (contained within Appendix 3 of the Project Approval

1 BACKGROUND AND OVERVIEW

1.1 BACKGROUND

This report has been prepared in response to Schedule 5, Condition 4 of the Champions Quarry Part 3A Project Approval number 09_0080 (the 'Project Approval'). The report provides an overview of progress on compliance issues and elaborates on planned activities for the coming year.

Schedule 5, Condition 4 of the Project Approval states:

"By the end of March each year, the Proponent shall review the environmental performance of the project to the satisfaction of the Director-General. The review must:

- (a) describe the development (including rehabilitation) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;*
- (b) include a comprehensive review of the monitoring results and complaints records of the project over the previous calendar year, which includes a comparison of these results against:*
 - the relevant statutory requirements, limits or performance measures/criteria;*
 - the monitoring results of previous years; and*
 - the relevant predictions of the EA;*
- (c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;*
- (d) identify any trends in the monitoring data over the life of the project;*
- (e) identify any discrepancies between the predicted and actual impacts of the project and analyse the potential cause of any significant discrepancies; and*
- (f) describe what measures will be implemented over the current calendar year to improve the environmental performance of the project."*

1.2 HISTORY

Up until 4 July 2014 Champions Quarry was operating under the existing Lismore City Council Development Consent (DA 2005/999). At midnight on 4 July 2014 the Lismore City Council Development Consent was surrendered and Champions Quarry commenced quarrying operations under the Project Approval. Today Champions Quarry continue to operate under the Project Approval.

2 PREVIOUS AND FUTURE DEVELOPMENT

2.1 DEVELOPMENT CARRIED OUT DURING 2015

Development activities carried out in the 2015 calendar year:

- Schedule 3, Condition 1 – Survey Areas: Prior to carrying out quarrying operations under the Project Approval, the Proponent engaged a surveyor to mark out the boundaries of the approved limits of extraction for the Central Extraction Area and

Progression 1 of the Western Quadrant of the Southern Extraction Area. Surveying is to be staged as provided for with the Director-General's consent.

- Schedule 3, Condition 17 – Water Management Plan: The Water Management Plan received interim approval from the Director-General on 19 June 2014. A copy of the interim plan is publicly available on Champions Quarry website. A revised Water Management Plan was submitted to DP & E in 2015 and resubmitted in the beginning of 2016. The Proponent awaits final approval by the Director-General. Once final approval is received the plan will be publicly available on Champions Quarry website.
- Schedule 3, Condition 18 and 19 – Planting Grasses/Shrubs/Trees: The Proponent has constructed and planted the following:
 - Bund A – Constructed, vegetated with grasses, some native endemic shrubs and trees and maintained on an ongoing basis;
 - Bund B – Constructed, vegetated with grasses, some native endemic shrubs and trees and maintained on an ongoing basis;
 - Bund C – Constructed, vegetated with grasses, some native endemic shrubs and trees and maintained on an ongoing basis;
 - Bund D – Constructed, vegetated with grasses, some native endemic shrubs and trees and maintained on an ongoing basis;
 - Bund E – Not yet constructed or required to be constructed;
 - Bund F – Not yet constructed or required to be constructed; and
 - Area to the North of the Main Access Road – Area vegetated with grasses, some native endemic shrubs and trees and maintained on an ongoing basis.
- Schedule 3, Condition 40 and 42 – Biodiversity Offset Strategy: The Proponent engaged a surveyor to mark out the precise boundaries of the Biodiversity Offset Strategy Areas and prepare an associated survey plan in 2014. During 2015, communications occurred between the Proponent and DP & E to finalise and approve the Biodiversity Offset Strategy and the terms of the s88E Instrument. It is anticipated that these will be finalised in 2016 following a minor amendment to the Project Approval.
- Schedule 3, Condition 45 – Landscape Management Plan: The Landscape Management Plan was approved by the Director-General on 19 June 2014. A copy of the plan is publicly available on Champions Quarry website. Further clarification was sought by the DP & E and a revised plan was resubmitted to DP & E. A further revised plan will be resubmitted to DP & E following the minor amendment to the Project Approval. Once approved the revised plan will be publicly available on Champions Quarry website.
- Schedule 3, Condition 47 – Independent Environmental Audit: An Independent Environment Audit was carried out in 2015. A copy of the Independent Environmental Audit Report and the Proponent's Response to Recommendations are publicly available on Champions Quarry website.
- Schedule 5, Condition 6 – Community Consultative Committee: The CCC held its 2015 meetings on 5 March 2015 and 16 October 2015. A copy of the draft/final meeting minutes are publicly available on Champions Quarry website.

Other development activities carried out in the 2015 calendar year but not specified in the Project Approval:

- Additional earthworks to create/widen the road from the Central Extraction Area to the Western Quadrant of the Southern Extraction Area which is within the Operational Area; and
- Removal of overburden and commencing extraction in Progression 1 of the Western Quadrant of the Southern Extraction Area.

2.2 PROPOSED DEVELOPMENT CARRIED OUT/TO BE CARRIED OUT DURING 2016

- Schedule 3, Condition 16 – Storage of Chemicals and Petroleum Products: Upon erection of a storage, maintenance and equipment shed onsite, an appropriately bunded area with impervious flooring and of sufficient capacity to contain 110% of the largest container stored within the bund and in accordance with Australian Standard AS1940-2004 will be installed.
- Schedule 3, Condition 19 – Planting Trees: The Proponent may during 2016 plant the following:
 - Bund E – To be constructed and planted with native endemic shrubs and trees; and
 - Bund F – To be constructed and planted with native endemic shrubs and trees; and
 - Koala Habitat Area – The Koala habitat area will be planted with Koala habitat trees/shrubs and grass.
- Schedule 3, Condition 42 – Long Term Security of Offsets: The Proponent will make suitable arrangements to provide appropriate long term security for all of the offset areas in the Biodiversity Offset Strategy following a minor amendment to the Project Approval. The Proponent and the DP & E are discussing options with the view to finalise the form of security and contents.
- Schedule 3, Condition 46 – Conservation and Rehabilitation Bond: The Proponent and the DP & E are discussing Rehabilitation Bond requirements with the view to finalise the amount in 2016 following a minor amendment to the Project Approval.
- Schedule 5, Condition 6 – Community Consultative Committee: The CCC is due to hold two meetings in 2016 in March and September/October 2016.

Other Activities not specified in the Project Approval:

- Maintenance Shed – The Proponent proposes to erect a storage, maintenance and equipment shed onsite being approximately 500m². Construction may commence in 2016.
- Bunds – The Proponent proposes to construct bunds as and when required for noise and visual attenuation purposes within the “Operational Area” of the quarry as specified in the relevant management plans.

3 REVIEW OF MONITORING RESULTS

Noise, water and air quality testing was carried out by the Proponent in 2015 in accordance with the Project Approval.

3.1 NOISE MONITORING

Six noise assessment locations were identified in the EA Documents and Project Approval. These are detailed in Table 4.1 below.

Table 3.1 – Receivers Locations for Noise Assessment

Receiver Number	Description	AMG Coordinates	Approximate distance from Project area boundary (m)
NAL 1	Residence	531089, 6799150	810
NAL 2	Residence	531738, 6798473	330
NAL 2A	Residence	Adjacent to Receiver 2's location	380
NAL 3	Residence	532043, 6798156	510
NAL 4	Residence	530867, 6797990	220
NAL 5	Residence	Adjacent to Receiver 4's location	450
NAL 1 – 1566 Wyrallah Road, Tucki Tucki NAL 2 – 139 Hazlemount Lane, Tuckurimba NAL 2A – 115 Hazlemount Lane, Tuckurimba NAL 3 – 140 Hazlemount Lane, Tuckurimba NAL 4 – 1682 Wyrallah Road, Tuckurimba NAL 5 – South Western Corner of Wyrallah Road and Tuckurimba Road, Tuckurimba Receiver locations are shown in Appendix 1 of the Project Approval			

Twelve sets of operator attended noise testing were carried out during 2015. The Proponent notes that some of the testing timeframes were extended as either an extension was granted by DP & E or required due to period of weather preventing testing. Notwithstanding this results were compliant with the relevant criteria. A copy of the noise monitoring results and relevant limits are attached as Annexure A.

As some noise monitoring was, with the consent of DP & E, delayed in 2015, additional operator attended noise testing was carried out at Receiver 2 and 3 in January 2016. A copy of these results are also included in Annexure A.

3.2 SOIL AND WATER MONITORING

Surface and Groundwater Monitoring Points

Ten water monitoring points were identified in the EA Documents as relevant for water monitoring. These are set out below:

Surface Water Monitoring Points:

1. A point immediately upstream of Tucki Tucki Creek (with no impact from the Quarry);
2. A point immediately downstream of Tucki Tucki Creek (2.5 kilometres from the Quarry's Operational Area) where drainage water enters Tucki Creek;
3. A point on the onsite watercourse;
4. Downstream of the Operational Area (a continuation of the onsite watercourse referred to in Monitoring Point 3 above);
5. Discharge point of the Water Reuse Dam;
6. Stormwater overflow monitoring point for the Water Reuse Dam (only to be tested prior to discharge); and
7. Water Reuse Dam (pH levels only).

Ground Water Monitoring Points:

8. Borehole 3 (Groundwater Level and Quality Monitoring);
9. Borehole 5 (Groundwater Level and Quality Monitoring); and
10. Borehole 6 (Groundwater Level and Quality Monitoring).

Two additional groundwater monitoring points were added to the monitoring regime in late 2015 (by way of a revised Water Management Plan) as follows:

11. Onsite Windmill/Bore (Groundwater Level Monitoring only); and
12. Borehole 7 (Groundwater Level and Quality Monitoring).

Surface and Groundwater Criteria

Champions Quarry is currently collecting baseline data from all surface water monitoring locations (Monitoring Points 1–7) and groundwater monitoring locations (Monitoring Points 8–12, excluding Monitoring Point 11) to determine statically derived site specific trigger levels. In the interim, in accordance with the EA Documents, Champions Quarry have compared the monitoring results against the following:

- Surface water monitoring (Monitoring Points 1-7) are compared against ANZECC Guidelines; and
- Ground water monitoring results (Monitoring Points 8 – 12, excluding Monitoring Point 11) are compared against ANZECC Guidelines and NHMRC Guidelines.

Surface Water Testing – Monitoring Points 1-7

A copy of the surface water testing schedule and monitoring results for Monitoring Points 1-6 and the relevant limits are attached as Annexure B. A copy of the monitoring results for Monitoring Point 7 and the relevant limits are attached as Annexure C.

Despite several attempts, successful samples were only collected from the following Monitoring Points due to insufficient water levels and/or the absence of discharge as follows:

- Monitoring point 1 – 5 attempts and 5 successful samples;
- Monitoring Point 2 – 5 attempts and 4 successful samples;
- Monitoring Point 3 – 5 attempts and 1 successful sample;
- Monitoring Point 4 – 5 attempts and no successful samples;
- Monitoring Point 5 – 5 attempts and 5 successful samples;
- Monitoring Point 6 – 5 attempts and no successful samples;
- Monitoring Point 7 – Weekly samples over 12 months (excluding one week).

There have been some deviations between the baseline data collected at Monitoring Points 1, 2, 3, 5 and 7 and the ANZECC Guidelines. These are identified in Annexure B and C as being highlighted in **bold**.

Both Monitoring Points 1 and 5 had the same deviations which are set out below (despite the fact that Monitoring Point 1 is upstream of the Quarry):

- Monitoring Point 1 experienced pH levels below the ANZECC Guidelines – This is consistent with the data collected in the previous year.
- Monitoring Points 2, 3 and 5 experienced pH levels below the ANZECC Guidelines – The EA Documents note that the pH of nearby soil and receiving waters are mildly acidic pH 4.5 – pH 5.3. This is consistent with the data collected in the previous year. The natural acidic soil conditions encountered at the Project Site and subsequent influence on runoff may require that maintenance of ambient condition is the preferred water quality goal. Hence, adjusting the pH to neutral conditions may result in unintended impacts on downstream aquatic ecosystems.
- Monitoring Points 1, 2, 3, and 5 experienced Aluminium levels that were above the ANZECC Guidelines – Champions Quarry has no control over the levels of Monitoring Point 1 as Monitoring Point 1 is in Tucki Tucki Creek and upstream of the Quarry. Monitoring Points 2, 3 and 5 shows higher Aluminium levels. This is consistent with the data collected in the previous year and with the baseline data collected closer to the Quarry during 2008.
- Monitoring Points 1 and 5 experienced Cadmium levels that were potentially below the ANZECC Guidelines – However, given breakdown by EAL Laboratories was inconclusive, future tests by EAL Laboratories were amended to be more precise to ascertain whether levels are above the trigger level of 0.002mg/L and shown to be below the trigger value.
- Monitoring Points 1 and 2 experienced Copper levels that were above the ANZECC Guidelines – Champions Quarry has no control over the levels of Monitoring Point 1 as Monitoring Point 1 is in Tucki Tucki Creek and upstream of the Quarry. Monitoring Points 2 shows slightly higher Copper levels with no data from the previous year. Notwithstanding this, Monitoring Point 3 located at the quarry has acceptable Copper levels. Hence the Copper levels of Monitoring Point 2 may be attributable to other factors.
- Monitoring Point 5 experienced Total Suspended Solids levels that were above the ANZECC Guidelines – However there were no discharges from Monitoring Point 5 (the Water Reuse Dam). Future treatments of the Water Reuse Dam with Lime or similar will aim to control the levels of Total Suspended Solids.
- Monitoring Point 2 experienced two incidents of Zinc levels above the ANZECC Guidelines. The previous year's data show no incidents above the ANZECC Guidelines. However Monitoring Point 3 located at the quarry has acceptable Zinc levels. Hence the Zinc levels of Monitoring Point 2 being at least 1.5 kilometres from the Quarry may be attributable to other factors.
- Monitoring Point 7 was tested weekly for pH levels. These levels were consistently below the ANZECC Guidelines. This is consistent with the data collected in the previous year and with the baseline data collected closer to the Quarry during 2008. The EA Documents note that the pH of nearby soil and receiving waters are mildly acidic pH 4.5 – pH 5.3. The natural acidic soil conditions encountered at the Project Site and subsequent influence on runoff may require that maintenance of ambient condition is the preferred water quality goal. Hence, adjusting the pH to neutral conditions may result in unintended impacts on downstream aquatic ecosystems.

More generally, deviations were anticipated in the EA Documents and are expected given that the ANZECC Guidelines are interim guidelines until statically derived site specific trigger levels are determined.

Ground Water Testing – Monitoring Points 8-12

A copy of the ground water monitoring results for Monitoring Points 8 -12 and the relevant limits are attached as Annexure D. Successful samples were collected as follows

- Monitoring point 8 – 4 successful samples;
- Monitoring Point 9 – 4 successful samples;
- Monitoring Point 10 – 4 successful sample;
- Monitoring Point 11 – 4 successful samples; and
- Monitoring Point 12 – 2 successful samples (Monitoring Point 12 was only formally added to the monitoring regime in late 2015)

Groundwater quality samples levels were consistently below the ANZECC Guidelines and NHMRC Guidelines trigger values with the exception of pH. This is consistent with the data collected in the previous year and with the baseline data collected closer to the Quarry during 2008. The EA Documents note that the pH of nearby soil and receiving waters are mildly acidic pH 4.5 – pH 5.3. The natural acidic soil conditions encountered at the Project Site and subsequent influence on runoff may require that maintenance of ambient condition is the preferred water quality goal. Hence, adjusting the pH to neutral conditions may result in unintended impacts on downstream aquatic ecosystems.

Monitoring Point 12 experienced two samples above the ANZECC Guidelines and NHMRC Guidelines trigger values for pH. These sample results have been attributed to the fact that the two samples were taken from a stagnant bore that had not been pumped from for some years.

3.3 AIR QUALITY MONITORING

A copy of the air quality monitoring results and relevant limits are attached as Annexure E. All results were compliant and significantly below the criteria of 4g/m²/month. This is consistent with the data collected in the previous year.

4 REVIEW OF COMPLAINTS RECORDS

A copy of the complaints records during 2015 is attached as Annexure F. Records indicate that during 2015 there was one complaint, the complaint was a noise complaint at the Quarry from NAL 2. Noise testing was carried out, as a result of the complaints, which proved to be compliant with the relevant criteria. The complainant was then notified of the outcome.

5 AREAS OF NON-COMPLIANCE

5.1 INDEPENDENT ENVIRONMENTAL AUDIT 2015

An Independent Environmental Audit was carried out in 2015. The results are contained within the Champions Quarry Independent Environmental Audit Report November 2015, which is publicly available on Champions Quarry website. The Proponents response and corrective actions are contained in the Champions Quarry Response to Recommendations November 2015 which is attached as Annexure G and also publicly available on the Champions Quarry website.

5.2 NOISE MANAGEMENT

All results were compliant with the relevant criteria.

5.3 SOIL AND WATER MANAGEMENT

There have been some deviations between the baseline data collected at Monitoring Points 1, 2, 3, 5, 7, 8, 9, 10 and 12 and the relevant guidelines (as discussed above).

5.4 AIR QUALITY MANAGEMENT

All results were compliant and significantly below the criteria of 4g/m²/month.

6 TRENDS IN MONITORING DATA OVER THE LIFE OF THE PROJECT

Given the relatively short testing program to date it is difficult to comment on the trends in monitoring data other than to say:

- All noise monitoring results have shown compliance with the relevant criteria.
- Water monitoring results in the form of baseline data are currently being collected in order to determine statically derived site specific trigger levels. In the interim Champions Quarry have compared the monitoring results against the following:
 - Surface water monitoring results are compared against ANZECC Guidelines; and
 - Ground water monitoring results are compared against ANZECC Guidelines and NHMRC Guidelines.

There have been some deviations (discussed above) between the relevant guidelines and baseline data collected. However, this was anticipated in the EA Documents and is expected, given baseline data is being collected to determine statically derived site specific trigger levels.

- All air quality monitoring results have shown compliance with the relevant criteria.

7 DISCREPANCIES BETWEEN PREDICTED AND ACTUAL IMPACTS OF THE PROJECT

At this stage there are no discrepancies between the predicted and actual impacts of the Project, particularly given the relatively short period since the Proponent commenced quarrying operations under the Project Approval and the limited testing program to date.

8 MEASURES TO BE IMPLEMENTED TO IMPROVE ENVIRONMENTAL PERFORMANCE

Please refer to Annexure G, the Champions Quarry Independent Environmental Audit Report Response to Recommendations.

9 PRODUCTION DATA

In accordance with Schedule 2, Condition 19 of the Project Approval, annual quarry production data is required to be submitted to DRE using the standard form and a copy of the data is to be included in the Annual Review.

There was 28,842.17 tonnes of crushed coarse sandstone materials sold during the 2014/2015 financial year including material from under 5mm to over 75 mm.

ANNEXURE A

CHAMPIONS QUARRY NOISE MONITORING RESULTS

Date	Location	Type of Noise Monitoring	Relevant Criteria	Result	Compliance/ Non-Compliance	If Non-Compliance - Reasons/Notes	
11/03/2015	NAL 2	Routine - Quarterly	37	32.4	Compliance	N/A	
11/03/2015	NAL 3	Routine - Quarterly	37	36.5	Compliance	N/A	
18/08/2015	Onsite	Routine - Annually Plant and Equipment					
		Mobile Screening Plant - Striker	114	105.8	Compliance	N/A	
		Mobile Screening Plant - McCloskey	114	111.6	Compliance	N/A	
		Site Truck - Ford Louivelle	91	90.3	Compliance	N/A	
		Dump Truck - Komatsu	119	106.2	Compliance	N/A	
		Water Truck - Isuzu	90	91.1	Compliance ³	N/A	
		Excavator - Komatsu PC300LC-8	106	106.2	Compliance ³	N/A	
		Excavator - Kobelco SK350LC-8	106	108.0	Compliance3	N/A	
		Front End Loader - Hyundai HL-770	101	98.7	Compliance	N/A	
		Front End Loader - Komatsu WA500-3	101	101.4	Compliance ³	N/A	
10/09/2015	NAL 1	Routine - Annually	35	42.4	Noise Criteria Does Not Apply ¹	Operational	42.4
						Background	48.0
10/09/2015	NAL 4	Routine - Annually	38	44.4	Noise Criteria Does Not Apply ¹	Operational	44.4
						Background	47.5
10/09/2015	NAL 5	Routine - Annually	38	43.8	Noise Criteria Does Not Apply1	Operational	43.8
						Background	46.6
15/09/2015	NAL 2	Routine - Annually	37	36.9	Compliance	N/A	
15/09/2015	NAL 3	Routine - Annually	37	37.0	Compliance	N/A	

26/11/2015	NAL 2	Routine - Quarterly	37	40.6	Compliance ²	Operational	40.6
						Background	41.7
9/12/2015	Onsite	Additional Plant and Equipment					
		Bulldozer - D9T CAT	109	109.2	Compliance ³	N/A	
9/12/2015	NAL 1	Routine Annually (Repeated Test)	35	42.8	Compliance ²	Operational	42.8
						Background	42.9
9/12/2015	NAL 4	Routine Annually (Repeated Test)	38	42.2	Compliance ²	Operational	42.2
						Background	42.9
9/12/2015	NAL 5	Routine Annually (Repeated Test)	38	44.0	Compliance ²	Operational	44.0
						Background	47.9
9/12/2015	NAL 3	Routine Quarterly	37	38.1	Compliance ³	N/A	

Notes:
1. Noise Criteria Does Not Apply in accordance with the relevant EPA Licence as the mean wind speed at 10 metres is >3m/s.
2. Background levels exceeded operational levels.
3. Result within 2 dB(A) of relevant criteria, not discernible by human ear and therefore deemed compliance.

ANNEXURE B

CHAMPIONS QUARRY SURFACE WATER MONITORING RESULTS (MP1-MP6)																
Monitoring Point	Date	Sampling Conditions	pH	Conductivity	Nitrate (NO ₃)	Aluminium (Al)	Total Arsenic (As)	Cadmium (Cd)	Total Chromium (Cr)	Copper (Cu)	Mercury (Hg)	Nickel (Ni)	Oil & Grease	Total Suspended Solids	Lead (Pb)	Zinc (Zn)
ANZECC 2000 Trigger Values ¹			6.5-8.5 ²	1.5 (dS/m)	0.7 (mg/L)	0.055 (mg/L)	0.024 (mg/L)	0.0002 (mg/L)	n/s (mg/L)	0.0014 (mg/L)	0.0006 (mg/L)	0.011 (mg/L)	No visible sheen or detectable odour	50 (mg/L) ³	0.0034 (mg/L)	0.008 (mg/L)
MP1	22/01/2015	Flow	6.98	0.196	<0.005	0.11	<0.001	<0.001	<0.001	0.001	<0.0005	0.001	None	10	<0.001	0.002
	6/03/2015	Flow - following heavy rain	6.87	0.134	0.019	0.09	<0.001	<0.0001	<0.001	0.002	<0.0005	0.001	None	11	<0.001	0.002
	7/04/2015	Flow - following heavy rain	6.7	0.123	0.166	1.994	0.001	<0.0001	0.002	0.002	<0.0005	0.002	None	25	<0.001	0.005
	13/08/2015	Flow	7.25	0.152	0.024	0.119	<0.001	<0.0001	<0.001	<0.001	<0.0005	0.001	None	11	<0.001	0.002
	18/12/2015	Flow	6.18	0.153	0.02	0.281	<0.001	<0.0001	0.001	0.001	<0.0005	0.001	None	20	<0.001	0.006
MP2	22/01/2015	No Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/03/2015	Flow - following heavy rain	6.08	0.185	0.031	0.284	0.001	<0.0001	0.001	0.002	<0.0005	0.003	None	13	<0.001	0.006
	7/04/2015	Flow - following heavy rain	6.38	0.111	0.035	2.894	<0.001	0	0.002	0.004	<0.0005	0.004	None	6	<0.001	0.025
	13/08/2015	Minimal flow	6.37	0.244	<0.005	0.554	<0.001	<0.0001	0.001	0.002	<0.0005	0.002	None	33	<0.001	0.006
	18/12/2015	Minimal flow	5.78	0.151	0.003	0.18	0.001	<0.0001	<0.001	0.001	<0.0005	0.001	None	24	<0.001	0.032
MP3	22/01/2015	Insufficient Water Levels	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/03/2015	Insufficient Water Levels	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/04/2015	Flow - following heavy rain	5.88	0.098	0.015	1.475	<0.001	<0.0001	0.001	0.001	<0.0005	0.001	None	6	<0.001	0.006
	13/08/2015	Insufficient Water Levels	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18/12/2015	Insufficient Water Levels	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CHAMPIONS QUARRY SURFACE WATER MONITORING RESULTS (MP1-MP6)

Monitoring Point	Date	Sampling Conditions	pH	Conductivity	Nitrate (NO ₃)	Aluminium (Al)	Total Arsenic (As)	Cadmium (Cd)	Total Chromium (Cr)	Copper (Cu)	Mercury (Hg)	Nickel (Ni)	Oil & Grease	Total Suspended Solids	Lead (Pb)	Zinc (Zn)
ANZECC 2000 Trigger Values ¹			6.5-8.5 ²	1.5 (dS/m)	0.7 (mg/L)	0.055 (mg/L)	0.024 (mg/L)	0.0002 (mg/L)	n/s (mg/L)	0.0014 (mg/L)	0.0006 (mg/L)	0.011 (mg/L)	No visible sheen or detectable odour	50 (mg/L) ³	0.0034 (mg/L)	0.008 (mg/L)
MP4	22/01/2015	Insufficient Water Levels	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/03/2015	Insufficient Water Levels	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/04/2015	Insufficient Water Levels	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13/08/2015	Insufficient Water Levels	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18/12/2015	Insufficient Water Levels	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MP5	22/01/2015	Yes	5.29	0.123	<0.005	0.184	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.001	None	6	<0.001	0.002
	6/03/2015	Yes	5.74	0.076	0.005	0.445	<0.001	<0.0001	<0.001	<0.001	<0.0005	0.001	None	66	<0.001	0.002
	7/04/2015	Yes - following heavy rain	5.71	0.074	0.058	2.335	0.001	<0.0001	0.001	0.001	<0.0005	0.001	None	266	0.001	0.003
	13/08/115	Yes	5.47	0.059	0.119	1.552	<0.001	<0.0001	0.001	<0.001	<0.0005	<0.001	None	262	0.001	0.002
	18/12/2015	Yes	4.42	0.061	0.027	3.984	<0.001	<0.0001	0.003	<0.001	<0.0005	0.001	None	72	0.001	0.006
MP6	22/01/2015	No Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	6/03/2015	No Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/04/2015	No Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	13/08/2015	No Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	18/12/2015	No Discharge	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MP7 (pH Only)		SEE ALTERNATIVE TABLE														

1. Initially data will be compared against ANZECC Trigger Values with the aim to develop site specific trigger levels after 2 years of operations once a larger data set is available.

2. pH level required will be reviewed following collection of baseline monitoring data in accordance with the Project Approval. Specifically it is noted that the pH of nearby soil and receiving waters are mildly acidic pH4.5-pH5.3. The natural acidic soil conditions encountered at the Project Site and subsequent influence on runoff may require that maintenance of ambient condition is the preferred water quality goal.

3. Maximum level once the stormwater management system is constructed and operational. Exceedance permitted at overflow point for duration of overflow when wet weather overflow is occurring due to stormwater events ≥ 60.2 mm in total falling over any consecutive 5 day period.

4. Data in **bold** indicates the data is outside the trigger levels.

ANNEXURE C

CHAMPIONS QUARRY		
WATER RE-USE DAM (MP7) - pH RESULTS		
Monitoring Point	Date	pH
		6.5-8.5 ¹
MP7	2/01/2015	5.76
MP7	7/01/2015	5.71
MP7	13/01/2015	5.72
MP7	22/01/2015	5.29
MP7	28/01/2015	5.45
MP7	4/02/2015	5.49
MP7	11/02/2015	5.56
MP7	18/02/2015	5.61
MP7	25/02/2015	5.58
MP7	4/03/2015	5.72
MP7	6/03/2015	5.74
MP7	12/03/2015	5.79
MP7	18/03/2015	5.68
MP7	25/03/2015	5.73
MP7	1/04/2015	5.66
MP7	7/04/2015	5.71
MP7	14/04/2015	5.67
MP7	22/04/2015	5.57
MP7	29/04/2015	5.86
MP7	6/05/2015	5.65
MP7	13/05/2015	5.72
MP7	21/05/2015	5.77
MP7	30/05/2015	5.65
MP7	5/06/2015	5.61
MP7	10/06/2015	5.68
MP7	17/06/2015	5.71
MP7	24/06/2015	5.67
MP7	1/07/2015	5.69
MP7	8/07/2015	5.73
MP7	15/07/2015	5.67
MP7	22/07/2015	5.72
MP7	28/07/2015	5.71
MP7	4/08/2015	5.61
MP7	13/08/2015	5.47

CHAMPIONS QUARRY		
WATER RE-USE DAM (MP7) - pH RESULTS		
Monitoring Point	Date	pH
MP7	19/08/2015	5.51
MP7	27/08/2015	5.53
MP7	2/09/2015	5.47
MP7	8/09/2015	5.51
MP7	15/09/2015	5.56
MP7	22/09/2015	5.67
MP7	30/09/2015	5.72
MP7	7/10/2015	5.61
MP7	13/10/2015	5.67
MP7	20/10/2015	5.58
MP7	28/10/2015	5.53
MP7	4/11/2015	5.51
MP7	10/11/2015	5.61
MP7	19/11/2015	5.71
MP7	26/11/2015	5.65
MP7	4/11/2015	5.62
MP7	10/11/2015	5.61
MP7	19/11/2015	5.71
MP7	26/11/2015	5.65
MP7	2/12/2015	5.62
MP7	9/12/2015	5.7
MP7	18/12/2015	4.42
MP7	24/12/2015	5.04
MP7	2/01/2016	5.17
MP7	TESTER UNAVAILABLE	-
MP7	13/01/2016	5.21
Notes		
1. Initially data will be compared against ANZECC pH Trigger Values with the aim to develop site specific trigger levels after 2 years of operations once a larger data set is available to evaluate the optimum outcome for the water quality of discharge waters. Specifically it is noted that the pH of nearby soil and receiving waters are mildly acidic pH4.5-pH5.3. The natural acidic soil conditions encountered at the Project Site and subsequent influence on runoff may require that maintenance of ambient condition is the preferred water quality goal.		
2. Data in bold indicates the data is outside the trigger levels.		

ANNEXURE D

CHAMPIONS QUARRY
GROUNDWATER MONITORING RESULTS (MP8-MP12)

Monitoring Point	Date	Sampling Conditions	pH	Conductivity (dS/m)	Nitrate (NO ₃) (mg/L)	Aluminium (Al) (mg/L)	Total Arsenic (As) (mg/L)	Cadmium (Cd) (mg/L)	Total Chromium (Cr) (mg/L)	Copper (Cu) (mg/L)	Mercury (Hg) (mg/L)	Nickel (Ni) (mg/L)	Lead (Pb) (mg/L)	Zinc (Zn) (mg/L)	Recharge Rate (L/Hour)
ANZECC 2000 Trigger Values ¹			6.5 - 8.5 ³	1.5	0.7	0.055	0.024	0.0002	n/s	0.0014	0.0006	0.011	0.0034	0.008	N/A
NHMRC Drinking Water Guidelines ²			6.5 - 8.5 ³	n/s	50	0.2	0.01	0.002	0.05	2	0.001	0.02	0.01	3	N/A
MP8	22/01/2015	Sample Collected	3.81	0.736	0.083	0.118	0.001	<0.001	0.001	0.002	<0.0005	0.01	0.001	<0.054	0.58
	9/04/2015	Sample Collected	4.47	0.509	0.897	0.089	<0.001	<0.001	<0.0001	0.002	<0.0005	0.007	0.001	0.039	0.71
	13/08/2015	Sample Collected	3.49	0.762	<0.005	0.083	0.001	<0.0001	<0.001	0.001	<0.0005	0.009	0.001	0.036	0.86
	18/12/2015	Sample Collected	3.32	0.563	<0.005	0.165	<0.001	<0.0001	<0.001	0.004	<0.0005	0.007	0.001	0.036	0.54
MP9	22/01/2015	Sample Collected	5.34	0.317	0.033	0.036	<0.001	<0.001	<0.001	0.001	<0.0005	0.001	0.001	0.019	1.88
	9/04/2015	Sample Collected	5.37	0.247	0.174	0.042	<0.001	<0.001	<0.0001	0.003	<0.0005	0.002	<0.001	0.016	2.83
	13/08/2015	Sample Collected	5.61	0.252	0.091	0.034	<0.001	<0.0001	<0.001	0.001	<0.0005	0.001	<0.001	0.02	1.88
	18/12/2015	Sample Collected	4.89	0.26	0.068	0.015	<0.001	<0.0001	<0.001	0.001	<0.0005	0.001	<0.001	0.026	1.08
MP10	22/01/2015	Sample Collected	4.91	0.143	0.008	0.108	<0.001	<0.001	0.001	<0.001	<0.0005	0.002	0.001	0.015	1.29
	9/04/2015	Sample Collected	4.48	0.096	0.115	0.064	<0.001	<0.001	<0.0001	0.001	<0.0005	0.001	0.002	0.019	1.63
	13/08/2015	Sample Collected	4.44	0.105	0.126	0.094	<0.001	<0.0001	<0.001	0.002	<0.0005	0.001	0.001	0.012	1.54
	18/12/2015	Sample Collected	3.8	0.123	0.026	0.165	<0.001	<0.0001	<0.001	0.008	<0.0005	0.002	0.001	0.016	1.42
MP 11	22/01/2015	Level Measured - 0.65m	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/04/2015	Level Measured - 0.60m	-	-	-	-	-	-	-	-	-	-	-	-	-
	13/08/2015	Level Measured - 0.61m	-	-	-	-	-	-	-	-	-	-	-	-	-
	18/12/2015	Level Measured - 0.51m	-	-	-	-	-	-	-	-	-	-	-	-	-
MP 12	13/08/2015	Sample Collected	10.1	0.396	0.165	0.059	0.001	<0.0001	0.005	0.005	<0.0005	0.001	<0.001	0.001	0.29
	18/12/2015	Sample Collected	7.27	0.615	0.113	0.058	0.002	<0.0001	<0.001	0.001	<0.0005	0.001	0.001	0.002	0.25

1. Initially data will be compared against ANZECC Trigger Values with the aim to develop site specific trigger levels after 3 years of operations once a larger data set is available.

2. Initially data will be compared against NHMRC Drinking Water Guidelines with the aim to develop site specific trigger levels after 3 years of operations once a larger data set is available.

3. pH level required will be reviewed following collection of baseline monitoring data in accordance with the Project Approval. Specifically it is noted that the pH of nearby soil and receiving waters are mildly acidic pH4.5-pH5.3. The natural acidic soil conditions encountered at the Project Site and subsequent influence on runoff may require that maintenance of ambient condition is the preferred water quality goal.

4. Data in **bold** indicates the data is outside the trigger levels.

5. Monitoring Point 11 measures levels only not water quality. Monitoring Point 11 was officially added to the monitoring regime in 2015.

6. Monitoring Point 12 was officially added to the monitoring regime in late 2015 but earlier results have been included.

ANNEXURE E

CHAMPIONS QUARRY AIR QUALITY / DUST MONITORING RESULTS

Sample Point	Exposure Period	Sampling Days (30 days +/- 2)	Sample Comments	Sample Volume (L)	Deposit Rate of Insoluble Solids Total		Deposit Rate of Ash (g/m ² /mth) Limit - 2g/m ² /mth	Deposit Rate of Combustible Matter (g/m ² /mth)
					(g/m ² /mth) Limit - 4g/m ² /mth	(mg/m ² /day)		
Receiver 2	2/1/15 - 2/2/15	31 days	-	2.380L	1.4	46	0.3	1.1
Receiver 2	2/2/15 - 3/3/15	29 days	Sample unsuccessful - excess rain, DDG overflowed	N/A	-	-	-	-
Receiver 2	3/3/15 - 31/3/15	28 days	-	0.920L	0.5	18	0.3	0.2
Receiver 2	31/3/15 - 1/05/15	31 days	Sample unsuccessful - excess rain, DDG overflowed	N/A	-	-	-	-
Receiver 2	1/05/15 - 1/06/15	30 days	Sample unsuccessful - excess rain, DDG overflowed	N/A	-	-	-	-
Receiver 2	1/06/15 - 1/07/15	30 days	Sample unsuccessful - excess rain, DDG overflowed	N/A	-	-	-	-
Receiver 2	1/7/15 - 3/08/15	33 days	Sample Frothy	0.7L	0.6	17	0.2	0.4
Receiver 2	3/08/15 - 2/09/15	30 days	-	0.6L	0.3	8	0.1	0.1
Receiver 2	2/09/15 - 30/09/15	28 days	-	1.5L	1.2	42	0.6	0.6
Receiver 2	30/09/15 - 30/10/15	30 days	-	0.7L	0.9	30	0.4	0.5
Receiver 2	30/10/15 - 2/12/15	33 days	Sample unsuccessful - excess rain, DDG overflowed	N/A	-	-	-	-
Receiver 2	2/12/15 - 2/1/16	31 days	Cloudy, organic matter present	1.8	2.3	75	0.9	1.5

Notes

1. Data in **bold** indicates the data is outside the trigger levels.

ANNEXURE F

CHAMPIONS QUARRY PART 3A COMPLAINTS REGISTER

Date of Complaint	Time of Complaint	Addressed to	From	Subject	Date/Time of Activity Complained Of	Written or Verbal	Date Received Complaint	Action
4/03/2015	11:34am	Champions Quarry	Chris Woolley (NAL 2)	Noise complaint	Day of 3/03/15 and 4/03/15	Written - Email	4/03/2015	Ceased excavation until noise testing was carried out. Conducted noise monitoring at NAL 2 on 05/03/15. Results were compliant with relevant noise criteria. Advised Complainant.

**ANNEXURE G – CHAMPIONS QUARRY INDEPENDENT ENVIRONMENTAL
AUDIT REPORT**

Champions Quarry Expansion

RESPONSE TO RECOMMENDATIONS CONTAINED WITHIN THE INDEPENDENT ENVIRONMENTAL AUDIT 2015

Champions Quarry
"Working with the Environment"

Champions Quarry – Response To Recommendations Contained Within The Independent Environmental Audit 2015

CHAMPIONS QUARRY
RESPONSE TO RECOMMENDATIONS CONTAINED WITHIN THE INDEPENDENT ENVIRONMENTAL AUDIT 2015

CORRECTIVE ACTION				
Number	Condition	Corrective Action	Response	Timeframe
CAR 1	Project Approval, Schedule 2, Condition 12	Seal the access road between CEA and SEA. Alternatively, seek a modification to the Project Approval that removes the requirement.	A s75W modification is to be lodged with the DP & E removing the requirement to seal the internal haul road between the CEA and SEA.	CQ to lodge a modification with DP & E by 19 February 2015.
CAR 2	Project Approval, Schedule 3, Condition 18	Submit a modification to address the inconsistencies with the LMP and Project Approval so that the LMP can be approved and then obtain confirmation that the construction of the bunds are to the satisfaction of DP & E.	A s75W modification is to be lodged with DP & E and then amendments are required to the Landscape Management Plan. A revised Landscape Management Plan will then be lodged with DP & E, following which CQ will seek confirmation from DP & E that the bunds listed as A-D have been vegetated to the satisfaction of DP & E.	<ul style="list-style-type: none"> • CQ to lodge a modification with DP & E by 19 February 2015. • CQ to lodge revised Landscape Management Plan with DP & E within 6 weeks of the approval of the modification. • CQ to seek confirmation from DP & E within 4 weeks of approval of the Landscape Management Plan.
CAR 3	Project Approval, Schedule 3, Condition 19	Submit a modification to address the inconsistencies with the LMP and Project Approval so that the LMP can be approved and then obtain confirmation that the vegetated screening along the access road is established to the satisfaction of DP & E.	A s75W modification is to be lodged with DP & E and then amendments are required to the Landscape Management Plan. A revised Landscape Management Plan will then be lodged with DP & E, following which CQ will seek confirmation from DP & E that the vegetated screening to the north of the main access road is established to the satisfaction of DP & E.	<ul style="list-style-type: none"> • CQ to lodge a modification with DP & E by 19 February 2015. • CQ to lodge revised Landscape Management Plan with DP & E within 6 weeks of the approval of the modification. • CQ to seek confirmation from DP & E within 4 weeks of approval of the Landscape Management Plan.
CAR 4	Project Approval, Schedule 3, Condition 35	Obtain confirmation that DP & E are satisfied with the sub-surface archaeological investigations.	<ul style="list-style-type: none"> • Confirmation sought from DP & E in September 2013 of proposed targeted sub-surface investigations. • DP & E advised that targeted sub-surface archaeological investigations should be contained within the Heritage Management Plan (email dated 24 September 2013). • The Heritage Management Plan containing the proposed targeted sub-surface investigations was approved by DP & E on 20 November 2013. 	No further action required.

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			<ul style="list-style-type: none"> Archaeological investigations were carried out on 29 November 2013. Archaeological Report was prepared and dated 11 December 2013. Report was submitted to DP & E on 20 December 2013. CQ sought confirmation from DP & E on 11 November 2015. DPE advised on 23 November 2015 that sub-surface investigations have been carried out to the satisfaction of the Secretary. 	
CAR 5	Project Approval, Schedule 3, Condition 40	Ensure conditions on the ground are consistent with the approved offset areas. Alternatively, seek a modification to the Project Approval so that the offset areas are consistent with those on the ground.	A s75W modification is to be lodged with the DP & E so that the mapped offset areas are consistent with groundtruthed areas on the ground. This will involve updating the figure in Appendix 6 of the Project Approval.	CQ to lodge a modification with DP & E by 19 February 2015.
CAR 6	Project Approval, Schedule 3, Condition 42	Finalise the conservation agreement for the offset areas or seek a further extension of the deadline from DP & E.	<ul style="list-style-type: none"> The conservation agreement (s88E Instrument) cannot be lodged until the s75W modification is finalised/approved as the modification includes an updated figure in Appendix 6 of the Project Approval, which once approved will be included as the plan in the s88E Instrument. CQ sought an extension from DP & E on 11 November 2015; DP & E advised on 16 November 2015 that the matter should be addressed without further delay; In the interests of progressing the preparation and finalisation of the s88E Instruments, CQ will in the interim liaise with DP & E to finalise the text of the RUL's and PPC's until it is finalised following the approval/outcome of the s75W modification. 	<ul style="list-style-type: none"> CQ will prepare and submit the s88E Instrument in the form of a PPC and RUL to DP & E by the end of December 2015. The plan attached to the PPC and RUL identifying the areas will be added to the PPC and RUL following approval of the s75W Modification by DP & E. The aim is to finalise the PPC and RUL with the plan and lodge them with LPI as soon as possible.
CAR 7	Project Approval, Schedule 3, Condition 45	Submit a modification to address the inconsistencies with the LMP and Project Approval so the LMP can be approved.	<ul style="list-style-type: none"> A revised Landscape Management Plan was submitted to DP & E in February 2015. DP & E requested some amendments. The amendments require a s75W modification to be lodged. Once the s75W modification is finalised/approved then a further amended Landscape Management Plan will be lodged with DP & E. 	<ul style="list-style-type: none"> CQ to lodge a modification with DP & E by 19 February 2015. CQ to lodge revised Landscape Management Plan with DP & E within 6 weeks of the approval of the modification.
CAR 8	Project Approval, Schedule 3, Condition 46	Submit a modification to address the inconsistencies with the LMP and Project Approval so the LMP can be approved and then lodge the Conservation and Rehabilitation Bond.	<ul style="list-style-type: none"> A revised Landscape Management Plan was submitted to DP & E in February 2015. DP & E requested some amendments. The amendments require a s75W modification to be lodged. 	<ul style="list-style-type: none"> CQ to lodge a modification with DP & E by 19 February 2015. CQ to lodge revised Landscape Management Plan with DP & E within 6 weeks of the approval of the modification.

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			<ul style="list-style-type: none"> Once the s75W modification is finalised/approved then a further amended Landscape Management Plan will be lodged with DP & E. Following approval the Conversation and Rehabilitation Bond can be calculated and submitted to DP & E. 	<p>weeks of the approval of the modification.</p> <ul style="list-style-type: none"> CQ to calculate the Bond and lodge with DP & E within 4 months of the approval of the LMP.
CAR 9	Environmental Protection Licence O4.3	Install a sediment basin marker that indicates the sediment storage zone or obtain confirmation from EPA that the pipes are a suitable alternative.	<ul style="list-style-type: none"> Confirmation sought from EPA on 16 April 2015, that the pipes are suitable sedimentation basin markers. CQ sought confirmation from EPA on 11 November 2015. EPA confirmed on 24 November 2015 that sedimentation basin markers are not required for preliminary sedimentation basins/traps. 	No further action required.
CAR 10	Environmental Protection Licence M7.1	Confirm with EPA that they are happy with the revised noise monitoring location.	<ul style="list-style-type: none"> All of the receivers locations for noise assessment are within 30 metres from the receivers residence except for Receiver 1. CQ advised EPA of this by email dated 5 March 2015. EPA advised on 10 April 2015 that they required written confirmation from the relevant receiver that they did not permit CQ to access their land for the purposes of carrying out noise monitoring. On 22 June 2015 CQ wrote to Receiver 1 seeking their advice as to whether they consent to CQ personnel accessing their land for the purposes of carrying out noise monitoring. CQ requested a response on/before 31 July 2015, noting that if CQ had not heard a response by the 31 July 2015, CQ would deem Receiver 1 to have refused consent to access their land. As of 1 October 2015, no response has been received from Receiver 1. CQ sought confirmation from EPA on 11 November 2015. EPA confirmed on 24 November 2015 that they are satisfied with the revised noise monitoring location for Receiver 1. 	No further action required.

Champions Quarry – Response To Recommendations Contained Within The Independent Environmental Audit 2015

RECOMMENDATIONS				
Number	Condition	Recommendation	Response	Timeframe
R1	Project Approval, Schedule 2, Condition 7	Survey the quarry floor on a periodic basis to demonstrate compliance.	The CEA floor level will be surveyed to establish current depth (excavated prior to 4 July 2014) AHD height markers will also be installed in the CEA. CQ will also install AHD height markers adjacent to the base of the SEA to indicate when the excavation is approaching the minimum AHD. The CEA and SEA floor level will be surveyed periodically once the level of the SEA is approaching the AHD height markers.	CQ will survey the CEA floor level and install AHD height markers in the CEA and at the base of the SEA by the end of January 2016. CQ will provide follow up surveys of extraction areas periodically.
R2	Project Approval, Schedule 2, Condition 9	Monitor and record the date, number and time of truck movements from the site to demonstrate compliance.	<ul style="list-style-type: none"> The Site Foreman monitors the hourly and daily truck movements from the site and staggers trucks throughout the day. CQ will commence recording the date and time that trucks are loaded/leave in accordance with accredited scales fitted to front end loaders. 	CQ will record the date and time that trucks are loaded/leave commencing from the beginning of December 2015 in accordance with accredited scales fitted to front end loaders.
R3	Project Approval, Schedule 2, Condition 17	Maintain plant maintenance logs and daily start checklists.	<ul style="list-style-type: none"> CQ notes that all plant and equipment is maintained and operated in a proper and efficient manner. This is also noted by the auditor. CQ will where possible, maintain plant maintenance logs and daily start checklists. 	CQ will maintain plant maintenance logs and daily start checklists commencing December 2015.
R4	Project Approval, Schedule 3, Condition 5	Undertake Noise Monitoring at receiver locations 1, 4 and 5 during suitable weather conditions to demonstrate compliance with noise criteria at nominated receivers.	CQ will repeat the noise monitoring at receivers 1, 4 and 5 and seek to do so during meteorological conditions when testing can be carried out and noise limits apply.	CQ will repeat the noise monitoring at receivers 1, 4 and 5 by the end of December 2015 (weather permitting).
R5	Environmental Protection Licence L1.2	Develop and implement a procedure to record sediment basins discharges.	<p>Sediment basins are visually inspected by the Site Foreman minimally 2-3 times per week for capacity, maintenance requirements and discharges. CQ will also implement a procedure as follows:</p> <ul style="list-style-type: none"> Minimum weekly inspections of the 40 ML Water Reuse Dam to determine capacity, assess any intentional and unintentional discharge and assess any maintenance requirements. The Water Reuse Dam is the final sedimentation basin and by itself exceeds all conceivable maximum sedimentation basin calculations. Weekly inspections will be increased to daily monitoring when Water Reuse Dam level approaches capacity, likely to discharge or is to be intentionally discharged. 	<ul style="list-style-type: none"> CQ will implement the procedure from the beginning of December 2015. CQ to lodge revised Water Management Plan by the end of December 2015.

Champions Quarry – Response To Recommendations Contained Within The Independent Environmental Audit 2015

			<ul style="list-style-type: none"> The following will be recorded in relation to the Water Reuse Dam: <ul style="list-style-type: none"> Weekly inspections (date and time); Maintenance requirements of the Water Reuse Dam or any required desilting (if any); and All discharges (intentional and unintentional). 	
R6	Environmental Protection Licence O4.4	Develop and implement a procedure to record that sediment basins are monitored and maintained appropriately.	Refer to R5.	Refer to R5.
R7	Environmental Protection Licence O4.8	Develop and implement a procedure to record that sediment basins are monitored and maintained appropriately.	Refer to R5.	Refer to R5.
R8	Transport Management Plan	Update the Drivers Code of Conduct in accordance with RMS suggestions, where relevant.	At this stage all material is transported by external contractors not employees.	
			RMS Recommendation	Response
			Safe initiatives for haulage through residential areas and/or school zones	Already incorporated into Drivers Code of Conduct.
			An induction process for vehicle operators and regular toolbox meetings	On site signage directs all drivers to collect the Drivers Code of Conduct from the site office prior to leaving the site. Employees also receive an employee induction sheet and participate in regular tool box meetings. Hence, recommendation satisfied/not relevant.
			A complaint resolution and disciplinary procedure	Complaints – Champions Quarry has a complaints telephone line (phone number published on website). Complaints can also be lodged online via the CQ website. Complaints are managed in accordance with the respective Management Plan. Disciplinary procedure – In accordance with the Drivers Code of Conduct, all hazards/incidents are to be reported to the Production Manager, Jeff Champion. Appropriate action will then be taken. It is noted, as the drivers are generally external contractors, it is not Champions Quarry's role to discipline drivers. Hence, recommendation satisfied/not relevant.
R9	Water Management Plan	Review the sediment basin calculations to ensure they are in accordance with Managing Urban Stormwater Soils and Construction – Volume 2e Mines and quarries (DECC, 2008) and EPL	Any community consultation measures for peak haulage periods	Recommendation satisfied/not relevant. Truck movements are already limited to 5 trucks per hour. Further, the Drivers Code of Conduct sets out requirements for truck drivers during such periods as does the Transport Management Plan.
			CQ will review the sedimentation basin calculations and incorporate any required amendments in a revised Water Management Plan to be submitted to P & E.	CQ to lodge revised Water Management Plan by the end of December 2015.

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R10	Water Management Plan	Develop and implement a procedure to record that sediment basins are monitored and maintained appropriately.	Refer to R5.	Refer to R5.
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