

28 days Report
For
Dunn Creek Dam release
– Ex-tropical cyclone Oswald –
January-February 2013

Submitted by:

Anglo Coal (Callide Management) Pty Ltd
On behalf of the holders of the EA MIN100507307
Anglo Coal (Callide) Pty Ltd and Anglo Coal (Callide) No. 2 Pty Limited
PO Box 144
BILOELA QLD 4715

Dated:

15th March 2013

Table of Contents

Contents

1.0	Background	3
2.0	28 Day Cessation Report Information (W14)	3
2.1	Release cessation date/time.....	3
2.2	Natural flow volume in receiving water.....	3
2.3	Volume of water released.....	4
2.4	Details regarding compliance of the release	4
2.5	In-situ water quality monitoring results	5
2.6	Any other matters pertinent to the water release event	6
3.0	28 Day Exceedance Report Information (W16)	6
3.1	The reason for the release	6
3.2	The location of the release	7
3.3	Water quality monitoring results	8
3.4	General observations and 3.6 any other matters pertinent to the water release event.....	8
3.5	Calculations	8

List of Figures

Figure 1	Rainfall data for Dunn Creek Dam	7
Figure 2.	Dunn Creek Dam – Site Layout.....	7

List of Tables

Table 1	Dunn Creek Dam Water Quality Release Contaminant Trigger Investigation Levels	8
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1.0 Background

This report has been prepared in accordance with conditions W14 and W16 of Environmental Authority MIN100507307 and relates directly to the passive releases of water from Dunn Creek Dam, as described in our Notification of Release Event dated 25th January 2013 and Notification of Cessation of Flow dated 16th February 2013.

On 14 December 2012, Callide Mine received an amended environmental authority from the Department of Environment and Heritage Protection (EHP), making significant changes to water release conditions. Accordingly, on 14 December 2012, Callide Mine discussed with John Frankish of EHP that, given our EA amendment was issued at a time which did not allow us to install some parts of the relevant infrastructure before the commencement of the wet season, this would need to be taken into consideration on an interim basis for the current wet season. In reliance on that discussion, Callide Mine did not seek review or appeal of the amended conditions so as to include an interim condition for the current wet season. Of particular relevance to Dunn Creek Dam, our EA amendment application dated 28 May 2012 included a proposal for transfer of water from this dam (which is located above Callide Dam), via the new Trap Gully pipeline to a new Trap Gully release point, which is a controlled release point, into the less sensitive receiving environment of Oaky Creek. Due to the fact that the EA amendment was not granted until mid-December, there was insufficient time to complete the associated infrastructure for the new Trap Gully release point before ex-cyclone Oswald and there were also physical access problems associated with a new monitoring location on timber reserve land for the Trap Gully release point.

The authorised flow gauge for monitoring receiving water flow for Dunn Creek Dam, located at the Callide Dam headwaters, was damaged by ex-cyclone Oswald. As discussed with EHP, we used representative data provided by SunWater. This meant that there was a slight delay between when threshold flow in receiving waters ceased and when Callide Mine became aware of that situation.

Water quality was generally very good, but there was a gap between when threshold flow in receiving waters had ceased and when passive flow from Dunn Creek Dam ceased, notwithstanding pumping out of Dunn Creek Dam to an interim storage location while we worked to finalise the infrastructure to operate our controlled release point from the Trap Gully pipeline.

2.0 28 Day Cessation Report Information (W14)

2.1 Release cessation date/time

This release from Dunn Creek Dam ceased at 6:00am on the 16th February 2013.

2.2 Natural flow volume in receiving water

As previously discussed with EHP, it was impossible to obtain data for natural flow volume in the receiving water in accordance with the monitoring requirements under Callide Mine's EA (Table W4 Part A). The flow gauging station for Dunn Creek Dam, located at the Callide Dam headwaters, was damaged as a result of flooding caused by ex-cyclone Oswald and was not

capable of recording flow volumes for receiving waters, so Callide Mine has been relying on representative flow data provided by SunWater until the flow gauging station is able to be repaired or replaced. EHP confirmed (in an email from Kylie Dunlop dated Friday 8th March), that it was accepted by EHP that SunWater gauging station data was to be used for receiving flow data as an interim measure. In addition, Callide Mine provided photographs to EHP demonstrating the high natural flow caused by ex-cyclone Oswald. All receiving flow data has been obtained from the SunWater gauging station from the Callide Dam Headwaters. This data is set out in Attachment 1 and Attachment 2.

In summary, this data indicates that the minimum flow in receiving waters of 1.5m³/sec would have been met for the period from before commencement of passive flow from Dunn Creek Dam until Sunday afternoon 3 February 2013. Callide Mine only became aware that the minimum flow threshold was no longer available when Callide Mine received an update from SunWater at 10.20am on Monday 4 February 2013.

2.3 Volume of water released

Interim updates have been provided to EHP about volumes of releases. Callide Mine now has available data on the total volume of water released from Dunn Creek Dam. The total amount of water released from Dunn Creek Dam during the period 25 January to 16 February 2013 was 249,910m³. Calculations of total flow are provided in Attachment 1. Due to what appears to have been a typographical error in the amended EA issued on 14 December 2012, there is currently no release limit for Dunn Creek Dam in terms of volumes of releases. Callide Mine's EA amendment application dated 28 May 2012 did not seek to change the existing release limit for Dunn Creek Dam, which used to be a flow rate not exceeding 20% of receiving water flow rate, but in fact that limit was deleted on 14 December 2012.

Callide Mine has raised with EHP (twice in January 2012) that we had a concern that there appeared to be numerous typographical or clerical errors in the amended EA relating to release parameters, not reflecting what had earlier been proposed by AERDS and accepted by Callide Mine, but in the case of errors for release parameters, EHP has declined to make those corrections by agreement and has advised Callide Mine to lodge a fresh EA amendment application to correct the errors. Callide Mine intends to lodge that application shortly.

2.4 Details regarding compliance of the release

Previous updates have been provided to EHP about compliance with EA parameters. The two exceedances/non-compliances below were notified to EHP on the 27th February 2013.

1. Exceedance of Condition W4

There have been minor exceedances for some water quality parameters. During first flush from Dunn Creek Dam, while ex-tropical cyclone Oswald was passing through the region, there were minor 'spikes' for suspended solids and EC. After that, water quality remained of high quality while threshold flows remained in receiving waters. After receiving waters had dropped back to low flow, there was a period when water quality deteriorated slightly, that is, with spikes up to 1530 EC. That is obviously still reasonably good water quality compared

with normal limits for other mines, but it was above Callide Mine's authorised limit for this release point. It would not have happened if Callide Mine had an opportunity to finalise infrastructure for the Trap Gully pipeline in time for the 2012-13 wet season, which we did not have a reasonable opportunity to do because of the EA amendment only having been approved on 14 December 2012.

The attached results from the sampling agency are still 'preliminary' and have not yet been formally certified, but Bureau Veritas was reasonably confident of the results. Callide Mine was unable to use continuous monitoring results because the sensors for the equipment became contaminated (silted up) and was unable to be accessed for maintenance as a result of ex-cyclone Oswald.

2. Non-compliance with Condition W9

With the stream flow gauging station having been damaged, representative flow data was being obtained from SunWater. The threshold flow for receiving waters dropped below 1.5m³/s at about 4pm on Sunday 4 February. Callide Mine became aware of this at about 10.20am on Monday 4 February, upon receiving the data from SunWater.

On that day, we immediately directed employees to direct any in-flows away from Dunn Creek Dam. Within about a day after that, pumping commenced from Dunn Creek Dam to a reserve storage known as East Dam, but this was not enough to prevent passive flows from Dunn Creek Dam. Pumping to East Dam was only an interim measure while Callide Mine worked on trying to set up a transfer from Dunn Creek Dam to the controlled release point via the Trap Gully pipeline. Pumping to the Trap Gully pipeline from Dunn Creek Dam had commenced by Friday 8 February 2013, but Callide Mine was still not able to commence pumping from the Trap Gully release point at that time because of lack of safe access (as a result of conditions caused by ex-cyclone Oswald) to be able to complete the work required to enable controlled releases from the Trap Gully pipeline until shortly after that, by which time Oaky Creek had dropped back to low flow. Fortunately, further heavy rainfall was then received, raising receiving water flow above the medium threshold in Oaky Creek and allowing controlled releases to commence from the Trap Gully pipeline on 20 February 2013.

This situation would not have occurred if our EA amendment application dated 28 May 2012 had been approved earlier than mid-December 2012, because we would then have had the infrastructure already in place to direct water from Dunn Creek Dam immediately to the controlled Trap Gully release point.

2.5 In-situ water quality monitoring results

Preliminary results have been provided of which the trigger level analysis has been completed. Preliminary water quality data is provided in Appendix 1. Finalised water quality results are yet to be received from the NATA accredited sampling agency, Bureau Veritas (BV). With the recent release events it has proven difficult for these results to be quickly available due to the high volume of water quality sampling occurring across the region post the 2013 wet weather events. Once the finalised results have been received they will be provided in full and with trigger level analysis completed. BV have supplied a written explanation as to why these results were not able to be supplied within the standard 28 day timeframe (Attachment 3).

2.6 Any other matters pertinent to the water release event

Callide Mine has provided a series of interim updates about the context and management steps taken in relation to this release.

As outlined above, it is suggested that the following issues were of particular relevance to the release event:

- The release was caused by an ex-tropical cyclone, involving unprecedented rainfall and flooding in the area and leading to damage to equipment and safety problems in terms of physical access;
- In preparation for the wet season, Callide Mine had reduced the water level in Dunn Creek Dam to about 20%, to try to maximise freeboard. Capacity had also been created in the nearby interim storage dam, East Dam, in preparation for the wet season.
- Water quality was generally very good, but deteriorated slightly towards the end of the passive releases, apparently due to passive overflow from another dam upstream (Lake McCauley).
- There was no restriction on the volume of releases from Dunn Creek Dam, apparently due to a typographical error in the amended EA issued 14 December 2012.
- Releases from Dunn Creek Dam after the threshold flow in receiving waters had dropped to low flow would not have happened if our amended EA could have been issued earlier than mid-December 2012. The fact that this timing was likely to be an issue for this wet season, particularly in terms of the infrastructure for the new controlled release points, was a topic that was raised with John Frankish of EHP on 14 December 2012.

3.0 28 Day Exceedance Report Information (W16)

3.1 The reason for the release

During the Australia Day long weekend (24th January 2012 to the 27th January 2013) Callide Mine and the Callide Valley in general received unprecedented rainfall from ex-tropical cyclone Oswald. During the period Dunn Creek Dam commenced passive flow release of a combination of mine affected and non-mine affected waters from the nominated release point (RP Dunn Creek Dam). Notification of the event was sent to EHP on the 25th January 2013 and cessation notice of the event was sent on the 18th February 2013.

In preparation for the 2012-2013 wet season, Dunn Creek Dam was lowered to a capacity of approximately 20%. However, due to the large amount of rainfall, the dam reached 100% and began discharging, at a time when receiving waters had reached the minimum natural flow threshold. The water that was released from Dunn Creek Dam during this period was a direct result of rainfall and overland flow from the surrounding terrain. Figure 1 below shows rainfall events for January and February 2013, as measured at the Dunn Creek Dam monitoring station.

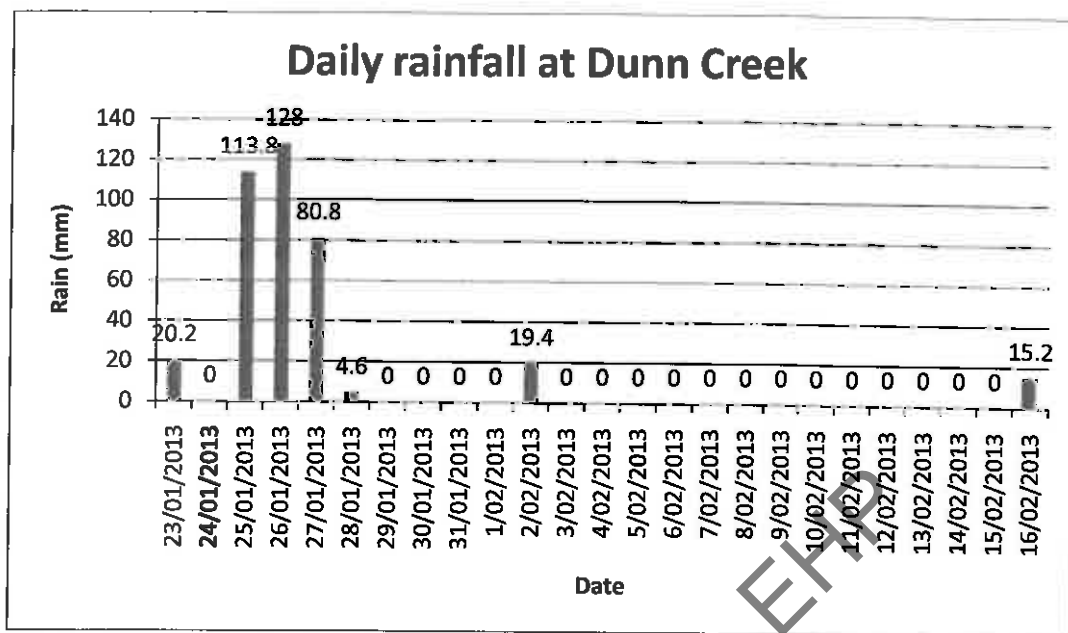


Figure 1 Rainfall data for Dunn Creek Dam

3.2 The location of the release

Water was released from the Dunn Creek Dam spillway at the Dunn Creek mining area, please refer to Figure 2. This is Dunn Creek Dam's authorised discharge location as described under EA MIN 100507307 is located at Latitude (GDA94) - 24.3237 and Longitude (GDA94) 150.6695, please refer to Figure 2.

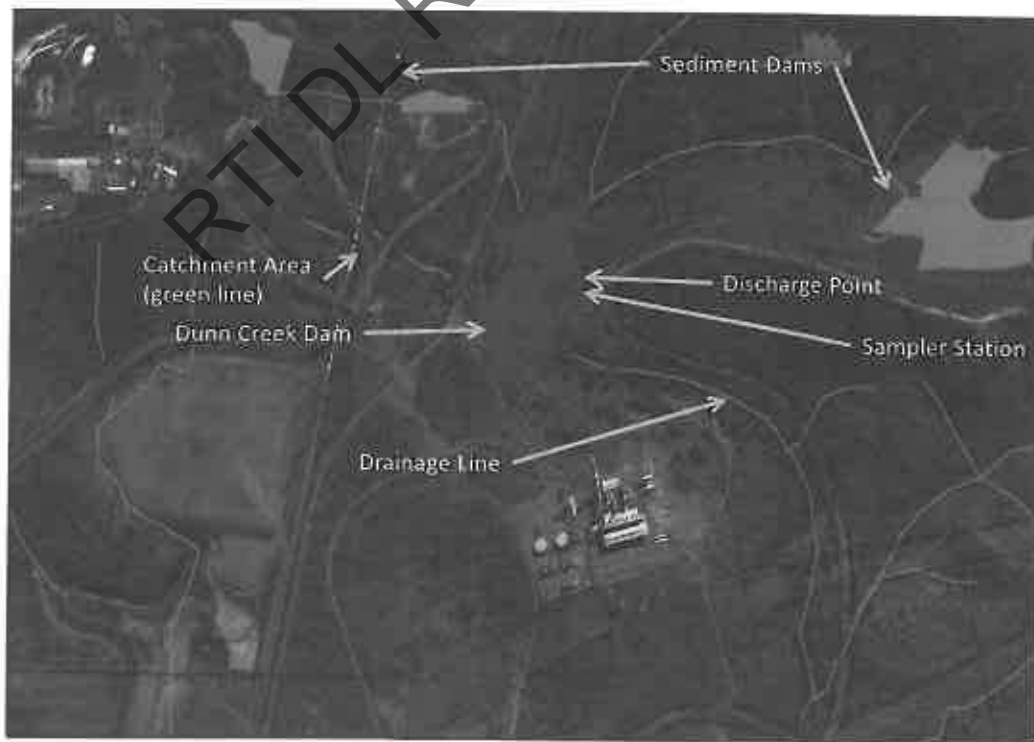


Figure 2. Dunn Creek Dam – Site Layout

3.3 Water quality monitoring results

- **Discharge Waters (Dunn Creek Dam)**

This discharge occurred between the dates of the 25th January 2013 to the 16th February 2013. Monitoring has occurred daily at 10 minute intervals at the Dunn Creek Dam automated sample station which also takes samples during flow events. In addition, in-situ sampling was completed by Bureau Veritas daily as soon as Callide Mine staff notified the Bureau Veritas of the need to commence sampling.

A summary of the water quality results pursuant to EA MIN100507307 Table W2 Part A - Contaminant Release Limits – Dunn Creek Dam and Table W3 - Release Contaminant Trigger Investigation Levels is provided in Appendix 1.

- **Receiving waters (Callide Dam)**

Please refer to Appendix 2 for all water monitoring results from Callide Dam for the periods of January and February prepared by Bureau Veritas.

- **Summary of Release Contaminant Trigger Investigation Levels**

Aluminium was the only contaminant that triggered 2(b) of condition W6 and there were two pH results that triggered Part 2 of condition W20. An investigation will be conducted into these results and will be provided in the next Annual Return. The below table summarises the physical water quality results for the release point, downstream and upstream monitoring points relating specifically to condition W6 (Table W3) and W20 (Table W7).

Table 1 Dunn Creek Dam Water Quality Release Contaminant Trigger Investigation Levels

	4/02/2013	8/02/2013	14/02/2013
	Aluminium	pH	pH
Release Limit	8 (Table W3)	6.5-8 (Table W7)	6.5-8 (Table W7)
Release point	920		
Downstream	55	8.3	8.1
Upstream	320	7.7	7.8

3.4 General observations and 3.6 any other matters pertinent to the water release event

On-going inspections during the discharge period did not yield evidence of turbidity, or any form of erosion or sedimentation from the discharge event.

3.5 Calculations

The automatic sampler stations installed at the discharge point allows Callide Mine to collect and compare data with the receiving waters data to monitor compliance with the EA Conditions. The volume of water that was released from Dunn Creek Dam during the period 25/01/2013 – 16/02/2013 was approximately 254,910 m³/s.

Please refer to Attachment 1 for the daily discharge volume break downs. The attachment also includes following:

- All calculations
- Average
- Maximum
- Sum/totals

Yours Sincerely

49-Sch4

John McDougall

Environmental Superintendent

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RTI DL RELEASE - EHP



Dunn Creek Dam Release Preliminary Water Quality Results

	7.7	7.8	7.9	7.1	7.3	7.2	7.5	7.6	7.4	7.2	7.1	8.0
1500	1300	1100	900	800	520	580	820	1070	1280	1310	1480	1410
N/A	N/A	N/A	370	470	590	490	330	150	79	52	32	50
300	150	300	420	300	160	120	91	50	11	21	24	20
N/A	750	480	550	370	400	510	510	760	850	850	570	565
400	350	180	140	120	150	200	200	280	320	320	350	340
320	320	320	320	320	320	320	320	320	320	320	320	340
55	1300											91
370	250											250
0.2	<0.1											<0.1
1	<1											<1
1.4	5.00											1
2	1.00											2
300	12											32
4	<1											<1
1900	230											140
0.2	<0.05											<0.05
11	12											12
10	1											1
1	<0.5*											<0.5*
1	<0.5											<0.5
10	2											2
9	41											6
55	870											920
370	170											220
0.2	<0.1											<0.1
1	2											<1
1.4	9											2
2	5											2
300	1500											220



1450	1460	1470	1480	1490	1500	1510	1520	1530	1540
16	37	18	11	24	10	12	8		
6	27	7		14	9	8			
ending	850	820	850	930	860	940			
310	290	300	310	300	300	210			
120	200	150	41	40	7	40			
				<10					
				230					
				<0.1					
				<1					
				<1					
				1					
				<10					
				<1					
				<5					
				<0.05					
				7					
				1					
				<1*					
				<5					
				7					
				40					
				200					
				<0.1					
				<1					
				<1					
				1					
				25					
				<1					
				8					
				<0.05					



Appendix 2
Callide Dam Preliminary Water Quality Results

Sample ID	Units	Table W7 Trigger Level	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam
Date Sampled			25/01/2013	26/01/2013	27/01/2013	28/01/2013	29/01/2013	30/01/2013	31/01/2013	1/02/2013	2/02/2013	3/02/2013	4/02/2013
Time Sampled			9:20	-	12:45	12:35	12:40	12:00	12:50	12:30	11:50	15:20	09:20
Sample type (grab sample/ sample bottle)			Grab	Road Closed due	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Water status (flowing/cooled/no flow)			Flowing	to flood	Flowing	Flowing	Flowing	Flowing	Flowing	Flowing	Flowing	Not Flowing / Pool	Not Flowing / Pool
pH		6.5-8.0	7.8	-	7.8	7.6	7.5	7.5	7.8	7.9	7.5	7.1	7.8
Conductivity	uS/cm	1150	300	-	150	90	140	120	100	180	150	150	160
Turbidity	NTU	N/A	270	-	560	730	470	880	800	160	160	230	140
Total Suspended Solids	mg/L	1000	260	-	77	310	81	320	270	71	140	130	62
Total Dissolved Solids	mg/L	N/A	160	-	160	190	150	150	150	150	130	120	140
Suphate	me/L	250	7	-	5	5	6	8	6	5	5	5	3

RTI/DL RELEASE - EHP

Sample ID	Table W7 Trigger Level	Units	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam	Callide Dam
Date Sampled	5/02/2013		09:15	6/02/2013	7/02/2013	8/02/2013	9/02/2013	10/02/2013	11/02/2013	12/02/2013	13/02/2013	14/02/2013	15/02/2013
Time Sampled	09:15			08:50	09:30	12:30	06:30	07:20	09:50	10:30	09:50	09:10	08:15
Sample type (grab sample/ sample bottle)	Grab		Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Water status (flowing/cease/low flow)	Not Flowing / Pool		Not Flowing / Pool	Not Flowing / Pool	Not Flowing / Pool	Not Flowing / Pool	Not Flowing / Pool	Not Flowing / Pool	Not Flowing / Pool	Not Flowing / Pool	Not Flowing / Pool	Not Flowing / Pool	Not Flowing / Pool
pH	6.5-8.0		7.8	7.5	7.2	8.3	7.6	7.4	7.3	8.0	7.6	8.1	7.5
Conductivity	uS/cm	1150	150	160	160	160	160	170	190	140	190	170	170
Turbidity	NTU	N/A	160	160	210	180	200	180	180	170	180	180	170
Total Suspended Solids	mg/L	1000	71	69	110	59	57	51	76	87	52	79	80
Total Dissolved Solids	mg/L	N/A	120	130	130	140	170	160	150	150	150	150	160
Sulphate	mg/L	250	6	6	5	5	5	5	5	5	5	6	5



Department of
Environment and
Heritage Protection

Enquiries
Telephone (07) 3330 5582
Your reference
Our reference PIN 4010273, 4010274,
4010275 & 4010276

14 May 2013

Anglo Coal Pty Ltd
C/o- John McDougall
PO Box 144
Biloela QLD 4715

Dear Mr McDougall,

Re: Infringement notice 4010273, 4010274, 4010275 & 4010276 issued for alleged breach of the *Environmental Protection Act 1994*

Thank you for your request for review received on 13 May 2013.

Until the enquiries are completed, you are not required to take any further action regarding the infringement notice. As the matter is being reviewed it is considered to be on administrative hold and will not impact on the 28 day timeframe.

You will be advised of the outcome of your review in due course.

If you have questions regarding this process please contact
infringement.notices@ehp.qld.gov.au

Yours sincerely

49-Sch4

Scott Billington
Infringement Administration Officer
Enforcement Services
Environmental Services and Regulation

From: McDougall, John [john.mcdougall@angloamerican.com]
Sent: Monday, 13 May 2013 8:02 AM
To: Infringement Notices
CC: Tarlinton Sam; Dunlop Kylie; 49-Sch4 Grant, Carl; Hampson, Michael
Subject: Callide PIN's
Attachments: SKMBT_C45213050614170.pdf; SKMBT_C45213050614171.pdf

Morning

Please find attached correspondence relating to the PIN's 40102773, 40102732, 40102740, 40102757 and 40102765 issued to Callide Mine by the department. In relation to PIN 40102773 Callide acknowledges that DEHP has now reissued this PIN and payment will now be made accordingly. This therefore closes out this particular issue.

In relation to the remaining four PIN's and further to our discussion with both Sam Tarlinton and Kylie Dunlop on Friday 10 May, please accept this email and the attached letter as confirmation of Callide Mine's request to review the issue of the four PIN's stated.

We understand that by requesting the review, the PIN payments require will be put on hold.

If you require any further information to progress this request, please contact the undersigned in the first instance.

Kind Regards

John

John McDougall
Environmental Superintendent



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**Kylie Dunlop
Senior Environmental Officer
Department of Environmental and Heritage Protection
PO Box 1762
ROCKHAMPTON QLD 4700**

By e.mail

6 May 2013

Dear Kylie

Penalty Infringement notices issued to Callide Mine on 17 April 2013

As outlined in our telephone call on Friday 3 May 2013, Callide Mine requests that EHP reconsider the penalty infringement notices (PINs) that were issued on 17 April 2013.

A. Summary

Essentially:

-

73(2)Irrelevant

- **Dunn Creek Dam release – Callide Mine requests that PIN no. 40102732 be withdrawn, because it appears that apparent exceedences of downstream water quality parameters may have been caused by a third party and in any case, exceedences were trivial and brief.**

-

-

73(2)Irrelevant

Member of the Anglo American plc group

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ABN 75 008 668 200

B. Further details

73(2)Irrelevant

2. Dunn Creek Dam release - PIN no. 40102732

The statement of reasons dated 17 April 2013 for this PIN alleges that Callide Mine notified the department on 15 March 2013 (via 28 day report for Dunn Creek release January-February 2013) that water released from Dunn Creek Dam between the period of 25 January to 16 February 2013 exceeded the water quality parameters of the EA including exceedences of EC release limits. That is a mistaken summary of the data contained in our 28 Days Report.

2.1 The 'exceedences' were trivial

The total period of the release was 25 January to 16 February. This was not the period of exceedence. As explained by our 28 Days Report (Section 2.4 on p4):

'During the first flush from Dunn Creek Dam, while ex-tropical cyclone Oswald was passing through the region, there were minor 'spikes' for suspended solids and EC. After that, water quality remained of high quality while threshold flows remained in receiving waters. After receiving waters had dropped back to low flow, there was a period when water quality deteriorated slightly, that is, with spikes up to 1530 EC. That is obviously still reasonably good water quality compared with normal limits for other mines, but it was above Callide Mine's authorised limit for this release point. It would not have happened if Callide Mine had an opportunity to finalise infrastructure for the Trap Gully pipeline in time for the 2012-13 wet season, which we did not have a reasonable opportunity to do because of the EA amendment only having been approved on 14 December 2012.'

The 'spikes' up to 1530 EC were quite brief, as set out in the data in our 28 days report. The maximum spike up to 1530 EC was also still quite good water quality.

2.2 There was a third party releasing to the same watercourse

In addition, the downstream results appear to have contributed to by releases from CS Energy.

At the time that Callide Mine submitted its '28 Days Report' in relation to passive releases from Dunn Creek Dam over this period (resulting from ex-cyclone Oswald), Callide Mine was under the impression that the water quality that was being monitored at our downstream

monitoring point at Callide Dam would have been representative of the water quality being released from Dunn Creek Dam.

However, since then, on 11 April 2013, Callide Mine has been advised by SunWater, which is the owner and operator of Callide Dam, that in fact Callide A Power Station was also releasing water into Dunn Creek during approximately the same period that Callide Mine was passively releasing from Dunn Creek Dam. Having made some further enquiries, we understand that CS Energy was releasing for a period of approximately 20 days into the same watercourse at a rate of about 20,000 litres per day. We understand that, unlike Callide Mine, CS Energy does not have to monitor for electrical conductivity, which is a method of approximating salinity. Callide Mine has no information about the water quality parameters of the release from Callide A Power Station. However, the downstream water quality that we thought we were measuring for a release from Callide Mine would have included cumulative releases from at least one other party, which Callide Mine was not aware of at the time.

We have heard that Mr Phil Steer is the relevant EHP officer who would be aware of the releases from Callide A Power Station.

Generally, Callide Mine's water quality from the Dunn Creek Dam is very good. Electrical conductivity is normally around 1200-1400 EC, with the authorised limit being 1400 EC.

As requested, please find a table of the water quality results from Dunn Creek Dam in Appendix 1.

2.3 Requested action

In these circumstances, Callide Mine respectfully requests that EHP should withdraw the PIN relating to Dunn Creek Dam releases.

73(2)Irrelevant

RTI DL RELEASE - EHP

73(2) Irrelevant

73(2) Irrelevant

RTI DL RELEASE - EHP



73(2)Irrelevant

Yours sincerely

49-Sch4

John McDougall

Environmental Superintendent

T: (07) 4990 1840

E: john.mcdougall@angloamerican.com.au

www.angloamerican.com.au

cc: Sam Tarlinton and Chris Loveday, EHP by e.mail



AngloAmerican

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Anglo Coal (Callide Management)
Pty Ltd

CALLIDE MINE
Coal Road
DO Box 444

Appendix 1:

Date	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb	16-Feb
Average EC (us/cm)	1014	885	687	797	879	1288	1381	1488	1502	1377	1448	1546	1466	1501	1284	1392	1433	1436	1445	1469	1496	1497	1482
Max EC (us/cm)	1312	1327	890	1255	1206	1431	1610	1615	1628	1439	1508	1694	1513	1538	1510	1458	1501	1463	1458	1628	1531	1569	1502
Grab Sample EC (us/cm)	1300	800	570	520	590	820	1070	1290	1310	1480	1410	1450	1490	1480	1340	1430	1610	1420	1460	1480	1520	1530	1430

Appendix 2:

Date	26-Jan	27-Jan	28-Jan	29-Jan	30-Jan	31-Jan	1-Feb	2-Feb	3-Feb	4-Feb	5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb	12-Feb	13-Feb	14-Feb	15-Feb
Receiving waters flow (m ³ /s)	23.88	110.9	34.94	1.93	0.893	0.505	0.34	0.23	0.22	0.14	0.08	0.02	0.02	0.00	0.00	0	0	0	0	0	0
Release Flow (m ³ /s)	0.82	0.82	1.96	1.15	0.648	0.427	0.24	0.07	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.007	0.013	0.013	0.013	0.01	0.004
Average EC (us/cm)	357	1029	1531	1454	1412	1386	1400	1414	1421	1449	1478	1486	1505	1501	1524	1537	1535	1523	1517	1536	1563
Max EC (us/cm)	730	1484	1886	1549	1435	1415	1477	1427	1457	1460	1486	1507	1511	1513	1535	1544	1550	1537	1541	1556	1577
Grab Sample EC (us/cm)	N/A	1660	1470	1380	1360	1360	1400	1420	1440	1420	1460	1520	1490	1540	1600	1620	1530	1570	1570	1620	1650

Member of the Anglo American plc group

Anglo Coal (Callide Management) Pty Ltd
 Coal Road, Box 444, Callide QLD 4715, Australia T +61 (0)7 4920 1811, F +61 (0)7 4920 1887.

ASN 75 008 636 200



Queensland
Government

Infringement Administration Officer copy
Penalty Infringement Notice
State Penalties Enforcement Act 1999

No. Q 200000040102732

Alleged offender details

Family/Business/Company name and ACN. Given name/s (if individual)

ANGLO COAL (CALIDE) PT LTD

Male ☐
Female ☐

Current address/ Registered office

G, 201 CHARLOTTE STREET
BREEBANK
QLD

Postcode 4000

Date of birth

Phone Number

Driver ☐
Owner ☐

Passenger ☐
Other ☐

Please specify

Identification details

Licence/Permit (type)

State

Number

Date of expiry

Issued by

Date of Issue

Vessel / Vehicle/Aircraft details

Vessel ☐

Vehicle ☐

Aircraft ☐

Commercial ☐

Private ☐

Registration number

State

Make

Colour

Body type

VIN/Chassis number

Registration expires

Alleged offence details

Committed ☒

Time (hours)

Day of week

Date

Permitted ☐

At

on

and

Or (do not use between dates for offences involving vehicles)

Start date

End date

Between 25/01/13 and 16/02/13

Location/Lot & Plan/ Other details (including address or GPS coordinates where appropriate)

CALIDE COAL MINE - ML5632, ML5641, ML5653,
ML5654, ML5655, ML5662, ML6993, ML6994,
ML80080, ML80092, ML80093, ML80107, ML80115,
ML80117, ML80118, ML80122 & ML80151.

Act or Regulation breached

Act breached

ENVIRONMENTAL PROTECTION ACT 1994

Code

Identifying particulars of the offence (Nature of alleged offence)

Penalty

EPA 04 - CONTRAVENTION OF CONDITION

W4 OF ENVIRONMENTAL AUTHORITY

MIN100507304

Issuing officer's details

Authorised officer's name (print)

KYLIE DUNLOP

Office / Department

I.D. number

ES MINING - DEPARTMENT OF ENVIRONMENT

Signature AND HERITAGE PROTECTION

Date 17/04/13

49-Sch4

18/04/13