

Blades Rebecca

From: Blades Rebecca
Sent: Monday, 11 April 2011 3:00 PM
To: 'Karen Hartley'
Cc: Troy Turner; Dlr.Prasad@adani.com; Meacle Kristy
Subject: RE: Adani Mining - EPC1690

Hi Karen,

Please find below advice from the department regarding the matters discussed during a meeting held on 28 March 2011 with Adani Mining Pty Ltd representatives.

Unauthorised drilling activities

As discussed during the meeting, the department will investigate the non-compliances with the environmental authority MIC200857709 and the *Environmental Protection Act 1994*.

The department has a responsibility to respond to any non-compliance with legislative requirements. In the event of non-compliance with the legislation and environmental performance standards, the department has the ability to use a number of enforcement tools including warning notices, statutory orders requiring certain actions to be taken, Penalty Infringement Notices and prosecution.

Sewage Treatment

I have included the ERA for sewage treatment below. If you are operating a system to treat sewage, the threshold for inclusion within the environmental authority is 21 Equivalent Persons. The ERA does not include a system for the collection of sewage without treatment.

ERA 63 Sewage treatment

- (1) Sewage treatment (the **relevant activity**) consists of—
- (a) operating 1 or more sewage treatment works at a site that have a total daily peak design capacity of at least 21EP; or
 - (b) operating a sewage pumping station with a total design capacity of more than 40KL in an hour, if the operation of the pumping station is not an essential part of the operation of sewage treatment works to which paragraph (a) applies.
- (2) The relevant activity does not include—
- (a) carrying out works, other than operating a sewage pumping station mentioned in subsection (1)(b), involving only infrastructure for the collection of sewage, including for example, pipes; or
 - (b) carrying out works involving either of the following—
 - (i) operating or maintaining composting toilets;
 - (ii) treating or recycling greywater.
- (3) In the following table, the aggregate environmental score for the relevant activity is the score stated opposite the threshold within which the relevant activity is carried out.

daily peak design capacity, for sewage treatment works, means the higher EP for the works calculated using each of the following formulae—

- (a) **EP = V/200**
 where—
V is the volume, in litres, of the average dry weather flow of sewage that can be treated at the works in a day;
- (b) **EP = M/ 2.5**
 where—
M is the mass, in grams, of phosphorus in the influent that the works are designed to treat as the inlet load in a day.

Diesel Storage

A level 2 Environmental Authority must not include a Chapter 4 activity (environmentally relevant activity located in Schedule 2 of the *Environmental Protection Regulation 2008*) for which there is an aggregate environmental score

Under the current Level 2 Environmental Authority, Adani Mining Pty Ltd may conduct ERA 8, at the threshold 3a (below):

ERA 8 Chemical storage

- (1) Chemical storage (the **relevant activity**) consists of storing—
- (a) 50t or more of chemicals of dangerous goods class 1 or class 2, division 2.3 in containers of at least 10m³; or
 - (b) 50t or more of chemicals of dangerous goods class 6, division 6.1 in containers capable of holding at least 900kg of the chemicals; or
 - (c) 10m³ or more of chemicals of class C1 or C2 combustible liquids under AS 1940 or dangerous goods class 3; or
 - (d) the following quantities of other chemicals in containers of at least 10m³—
 - (i) 200t or more, if they are solids or gases;
 - (ii) 200m³ or more, if they are liquids.
- (2) The relevant activity does not include—
- (a) in-transit storage of chemicals; or
 - (b) storing chemicals for carrying out an activity under section 7; or
 - (c) transporting petroleum under the *Petroleum Act 1923* or the *Petroleum and Gas (Production and Safety) Act 2004*; or
 - (d) carrying out an activity to which section 55, 56, 57 or 58 applies.
- (3) In the following table, the aggregate environmental score, if any, for the relevant activity is the score stated opposite the threshold within which the relevant activity is carried out.

Threshold

- 3) storing the following total quantity of chemicals of class C1 or C2 combustible liquids under AS 1940 or dangerous goods class 3 under subsection (1)(c)—
 - a) 10m³ to 500m³.

Carmichael River

The departmental guideline '*Activities in a watercourse, lake or spring associated with mining operations*' only applies for Mineral Development Licences or Mining Leases. Depending on your proposal, you may require approvals under the *Water Act 2000*. To determine your requirements under the *Water Act 2000*, please contact Kristy Meacle, Senior Adviser Water Regulatory Services on (07) 4938 4590.

No excluding 'buffer zone' will be applied to the Carmichael River following the amendment of the environmental authority, however please be aware that exploration activities that will be undertaken within the bed and banks of the river may require additional approvals under the *Water Act 2000*.

I hope this is of assistance with your amendment application. If you have any further questions, please contact myself on (07) 4987 9320.

Regards,

Rebecca Blades

Principal Environmental Officer, Environmental Services - Mining

Telephone: 07 4987 9320 **Mobile:** (6) Personal information **Facsimile:** 07 4987 9344 **Email:**

rebecca.blades@derm.qld.gov.au

www.derm.qld.gov.au

Department of Environment and Resource Management

99 Hospital Road, Emerald, Q 4720

PO Box 19, Emerald Q 4720

From: Karen Hartley [mailto:Karen@mems.com.au]

Sent: Monday, 11 April 2011 8:57 AM

To: Blades Rebecca

Cc: Troy Turner; Dlr.Prasad@adani.com

Subject: FW: Adani Mining - EPC1690

Importance: High

Hi Rebecca

11/04/2011

I received a message on Friday that you were going to respond to my email below?... If possible, can you please respond today as the client is keen to progress in respect to the 2nd and 3rd dot points and understand where they stand in terms of the 1st dot point.

Cheers
Karen

From: Karen Hartley
Sent: Wednesday, 6 April 2011 11:19 AM
To: rebecca.blades@derm.qld.gov.au
Cc: 'Troy Turner'; 'Dlr.Prasad@adani.com'
Subject: Adani Mining - EPC1690

Hi Rebecca

I'm following up on the actions that came out of our meeting last Monday. When you are back in the office, can you please provide advice regarding the following?

- Advise about any implications of previous disturbance undertaken within ERE and ERE buffer including non-compliance notice and/or fines.
- Advise whether a septic system can be constructed under the current EA and what the capacity of the camp can be whilst keeping under the threshold of a level 1 ERA (for sewerage treatment).
- Clarify the maximum volume of diesel that can be stored under the current EA.
- Provide a guideline applicable to Adani's proposed river crossing works.
- Advise whether a buffer is likely be applied to the Carmichael River following the EA amendment.

In addition, can you please advise as to whether the financial assurance can be calculated based on the method presented in the Code, or is it a requirement to calculate it based on rehabilitation unit costs for each disturbance domain (as per Appendix A of the EM Plan guideline)?

Don't hesitate to call me if you require any clarification or would like to discuss anything.

Cheers

Karen

Karen Hartley
Environmental Adviser
07-3220 3166


McCollum Environmental
MANAGEMENT SERVICES


www.mems.com.au

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Running Sheet Summary

Complaint/Report Ref: CR54722

Complainant						
Ref	Name	Address	Phone	Mobile	Fax	Email
686841	Isaac Regional Council					

Alleged Source						
Ref	Name	Address	Phone	Mobile	Fax	Email
649121	Adani Mining Pty Ltd	Level 25, AMP Place 10 Eagle Street BRISBANE QLD 4001	07 3223 4804		07 3223 4850	hamish.manzi@adani.in

Incident Location		
Name	Risk Level	Address
EPC1690		

Source Ref: CR54722

Action Source Ref:

Date Commenced: 22/MAY/12 **First Action:** N

Officer Involved: DEW, Peter

Responsible Office: ES - Reg Serv - Whitsunday Coalfields - Mackay

Action Type: Telephone Call

Inspection Type:

Enforcement Measure Type:

Referral To:

Action: Peter Dew recieved phone call (6) Personal information (Isaac Regional Council) reporting potential environmental harm being caused by an effluent spillage at the Adani camp. Peter stated that the sewage system at the Adani camp had broken pumps, broken (aboveground) pipes and faecal matter ponding around the storage tanks located next door to the food service area. Peter stated he had recieved his information from the Adani camp who was working as a contract plumber.

Time Spent Hours:

Time Spent Minutes:

Outcome: NFA - referral

Outcome Description: PD passed issue onto Rebecca Blades (ES-Mining) as STP issue is dealt with under the EA.

Due Date:

Date Completed:

Source Ref: CR54722

Action Source Ref:

Date Commenced: 31/MAY/12 **First Action:** N

Officer Involved: SWAN, Rebecca

Responsible Office: ES - Reg Serv - Central West -Mining - Emerald Office

Action Type: Email Sent

Inspection Type:

Enforcement Measure Type:

Referral To:

Action: Rebecca Blades notified Adani Mining (Shaun Lovelock and Hamish Manzi) of complaint recieved regarding the spillage of untreated effluent at the Adani Mining Camp. Rebecca Blades assigned the task of investigating the complaint to Officer, Lauren Payne.

Time Spent Hours:

Date Completed:

Date Completed:

Outcome: NFA - complaint form not received

Running Sheet Summary

Outcome Description: Awaiting call for Personal Information and complaint form attached.

No complaint form recieved (8/06/2012)

Due Date:

Date Completed:

Source Ref: CR54722

Action Source Ref:

Date Commenced: 08/JUN/12

First Action: N

Officer Involved: PAYNE, Lauren

Responsible Office: ES - Reg Serv - Central Coast - Central West - Emerald - EPA

Action Type: Telephone Call

Inspection Type:

Enforcement Measure Type:

Referral To:

Action: LP phoned Shaun Lovelock and informed him that the date of the complaint was reported to be the 18th of May. Shaun stated that it was the same incident he reported to the department. LP pointed out that the report they had sent into the department had the 18th of April on it, not the 18th of May. Shaun stated that the date on the report was a mistake, and that it should read the 18th of May, not the 18th of April. LP stated she would check the date recieved by the department, and get back to him.

LP checked the date recieved by the department and confirmed that the report was submitted in May, not in April. LP is satisfied that the complaint and the incident reported to the department are the same incident that occurred on the 18 May.

Time Spent Hours:

Time Spent Minutes:

Outcome: NFA - EPA otherwise satisfied

Outcome Description: LP is satisfied that the incident reported to the department is the same incident that the complainant reported. As soon as the client became aware of the sewage leak it was rectified by turning the leaking valve off, and diverting effluent back to the storage tanks on site.

Due Date:

Date Completed: 08/JUN/12

RTI DL RELEASED - EHP

RYAN Brianna

From: LOVEDAY Chris
Sent: Friday, 19 February 2016 10:08 AM
To: RYAN Brianna
Subject: FW: Effluent spill

-----Original Message-----

From: Shaun Lovelock [<mailto:Shaun.Lovelock@adani.in>]

Sent: Monday, 5 January 2015 4:43 PM

To: LOVEDAY Chris

Subject: Effluent spill

Hi Chis,

Hope you had an enjoyable Xmas break.

I am writing to notify of a small (approx. 150L) effluent spill from our STP that occurred during the course of last night. The spill was completely contained within the STP bunded area and there has been no contamination of surrounding waterways or drainage lines. The STP has been adjusted to prevent further spills. We have a technician inspecting the STP for us today. I am travelling to site tomorrow (tue) and will undertake a full investigation and carry out remediation as required. I will provide an update to the department asap.

Regards
Shaun

RTI DL RELEASE - EHP



Your ref: EPPR00745013

4 February 2015

Permit and Licence Management
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001
palm@ehp.qld.gov.au

Annual return – Environmental Authority EPPR00745013

To whom it may concern

Please find attached the Annual Return for Adani Mining Pty Ltd's Environmental Authority for Exploration Permit for Coal 1690 (EPPR00745013).

The Annual Return is for the period from 6 February 2014 to 5 February 2015.

The following attachments to the Annual Return are also provided:

1. Statement of details, responding to question 6; and
2. A cheque for the annual return amount of \$12,061.50.

If you have any questions, please do not hesitate to contact me on telephone number (07) 52234800 or via email at hamish.manzi@adani.in.

Yours sincerely

sch4p4(6) Signature

Hamish Manzi
Head - Environment and Sustainability

Adani Mining Pty Ltd
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Australia

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info@adani.com
www.adani.com

Annual return

Environmental authority

This annual return is relevant to environmental authorities for resource activities or prescribed environmentally relevant activities (ERAs) under sections 308 and 309 of the Environmental Protection Act 1994 (EP Act).

GUIDE

IMPORTANT: This is the period for which all of the questions within this return relate to.

If the anniversary day has changed you must ensure that there is no gap in reporting because of the change.

Please update principal holder details if incorrect by crossing out the details and printing the correct details beneath or attach them to your return.

Where there are multiple holders of an environmental authority, the department will send correspondence to the multiple holders care of the principal holder.

This information must be kept current as it is used for all ongoing correspondence in relation to your environmental authority.

If you require assistance in answering any part of this form, or have any questions about your application please contact Permit and Licence Management. Contact details are at the end of this form.

Annual return details

1. Annual return period

FROM	06-Feb-2014
TO	05-Feb-2015

2. Environmental authority details

ENVIRONMENTAL AUTHORITY NUMBER EPPR00745013	
ENVIRONMENTAL AUTHORITY HOLDERS NAMES Adani Mining Pty Ltd	
PRINCIPAL HOLDER DETAILS	
REGISTERED ADDRESS Level 25, AMP Place 10 Eagle Street BRISBANE QLD 4001	POSTAL ADDRESS (IF DIFFERENT) C/- Hamish Manzi GPO Box 2569 BRISBANE QLD 4001
CONTACT PERSON Hamish Manzi	PHONE 07 3223 4800
FACSIMILE 07 3223 4850	MOBILE sch4p4(6) Personal information
EMAIL hamish.manzi@adani.in	

3. Have any of the activities on your environmental authority been altered?

- ☐ Yes → Your environmental authority may need to be amended.
- ☒ No

4. Have you fully complied with the conditions of your environmental authority (including if applicable the eligibility criteria and any standard conditions)?

☐ Yes

☒ No→

☒ I/We have already provided all non-compliance information to the administering authority. No further documentation has been attached.

OR

☐ I/We have not yet provided non-compliance information and have attached the following documentation.

- a) A statement describing the non-compliance/incident including photographs where appropriate.
- b) A statement describing the environmental impacts resulting from the non-compliance/incident.
- c) A statement describing the actions taken to repair any damage to the environment resulting from the non-compliance/incident.
- d) Details of any monitoring data which exceeded any of the environmental limits set out in the environmental authority.

Management criteria for CSG water would have been provided as part of the environmental authority application.

5. Is the environmental authority for a resource activity for coal seam gas (CSG)?

☐ Yes→

☐ I/We have attached the following documentation.

- a) An evaluation of whether the management of CSG water has been effective when assessed against the management criteria.
- b) If the evaluation (mentioned above), determines that water has not been effectively managed against the management criteria, also include details of the action that will be taken to ensure that the water will be effectively managed in the future, including timeframes for action.

☒ No

If a plan of operations applies and financial years are used to align the plan this can be stated. Otherwise, state the period on which the plan is based (e.g. **Jan 2009 to Jan 2010**).

6. Is the environmental authority for a resource activity?

- ☒ Yes → ☒ We have provided a summary of the onsite disturbance and rehabilitation in the table below based on the annual return period.
- OR
- ☐ I/We have provided a summary of the onsite disturbance and rehabilitation in the table below based on a period which aligns with a plan of operations being _____ to _____.
- ☐ No

Area of disturbance/rehabilitation (hectares)	Planned	Actual
Total area disturbed (including rehabilitated areas) during the period	1.284 ha	1.284 ha
Total area rehabilitated during the period	0.96 ha	0.96 ha
Total area remaining disturbed (not rehabilitated) at the end of the period	0.324 ha	0.324 ha

7. Is the environmental authority for a resource activity with a petroleum tenure, and an incidental activity under the *Petroleum and Gas (Production and Safety) Act 2004* has commenced?

- ☐ Yes → ☐ I/We have attached the following documentation.
- a) Details of the incidental activity carried out in the area of the authority to prospect or lease, including how the incidental activity will be carried out.
- b) Details of the environmental risks of the incidental activity.

☒ No

8. Are you claiming a reduced annual fee?

- ☐ Yes → ☐ I/We have completed Attachment 1: Claiming a reduced annual fee.
- ☒ No

To determine if you are eligible for a reduced annual fee, please refer to the information sheet *Paying a Reduced Annual Fee (EM264)* which is available at www.ehp.qld.gov.au

Monitoring and reporting does not need to be resubmitted with this return, unless it is a specific requirement within the conditions of your environmental authority, in which case monitoring must be provided.

9. Does a condition of your environmental authority require you to carry out any monitoring and/or reporting?

- ☒ Yes → Go to question 10.
- ☐ No → Go to and complete declaration.

The point source database can be accessed through the website
www.dsitia@qld.gov.au

10. Have you submitted the monitoring and reporting to the point source database?

- ☐ Yes → ☐ All monitoring and reporting has been submitted to the point source database. Go to and complete declaration.
- OR
- ☐ Only some of the monitoring and reporting has been submitted to the point source database. Go to question 11.
- ☒ No

11. Has all of the monitoring and reporting been carried out in accordance with your environmental authority?

- ☒ Yes
- ☐ No → Please ensure question 4 is filled out correctly and includes all of the necessary details.

Please do not submit the monitoring data or report(s) with this annual return.

You must keep reports so they can be accessed if requested. You may need to provide them following a request by an authorised officer or when surrendering or cancelling your environmental authority.

12. Provide a summary of your monitoring and reporting.

REPORT AND/OR MONITORING DATA TITLE	PREPARED BY	DATES COVERED BY REPORT	LOCATION OF REPORT
(G12) Records of Waste Offsite	Adani Mining Pty Ltd	6/2/14 to 5/2/15	Exploration Camp – Site Office
(E72) Annual Report	Adani Mining Pty Ltd	6/2/14 to 5/2/15	Adani Head Office

Declaration

Note: If you have not told the truth in this annual return you may be prosecuted.

- I/We, being the holders identified in question 2, acknowledge that all information supplied on or with this annual return may be made available upon request, subject to the provisions of the *Right to Information Act 2009* and the *Evidence Act 1977*.
- I am the holder of or the appointed signatory for the environmental authority.
- I am aware that under section 480 of the *Environmental Protection Act 1994*, it is an offence to knowingly give the administering authority information that I know is false, misleading or incomplete in any material particular.
- I have supplied all of the required information.

SIGNATURE sch4p4(6) Signature	
NAME OF SIGNATORY (IF APPLICABLE) HAMISH MANZI	
POSITION OF SIGNATORY (E.G. DIRECTOR, CEO, MANAGER, OWNER, PARTNER) Head - Environment & Sustainability	DATE 5/2/15

Please return your completed annual return by 06-Feb-2015 to:

palm@ehp.qld.gov.au (preferred method)

OR

Permit and Licence Management
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001

Privacy statement

The department is committed to protecting the privacy, accuracy and security of your personal information in accordance with the *Information Privacy Act 2009*. The information is being collected in accordance with sections 308–309 of the *Environmental Protection Act 1994*. The information will only be accessed by authorised employees within the department. Some of this information may be given to the Department of Natural Resources and Mines for the purpose of the joint regulation of mining activities. Your information will not be given to any other person or agency unless you have given us permission or we are authorised or required by law. All information supplied on this form may be disclosed publicly in accordance with the *Right to Information Act 2009* and *Evidence Act 1977*. For queries about privacy matters email: privacy@ehp.qld.gov.au or telephone: (07) 3330 5436.

Applicant checklist

- ☒ Annual return signed and completed (all questions applicable are answered)
- ☒ Attachment 1—Reduced annual fee documentation attached (if applicable)
- ☒ Annual fee paid or enclosed

2014-15 Annual Report for Environmental Authority EPPR00745013

As per **Condition E72**, this report includes details of exploration activities undertaken and details of progressive rehabilitation works completed to demonstrate compliance with the conditions of environmental authority EPPR00745013.

Exploration Activities

The following activities were conducted on EPC1690 during the reporting period from 6 February 2014 to 5 February 2015:

Exploration Drilling and Associated Access Tracks

The 2014-15 exploration drilling program consisted of a number of geotech and hydrogeology drill holes.

A total of 6 drill pads (1600 m² each) were prepared during the reporting period. In order to facilitate access to these sites 0.72 km of new tracks (4.5 m wide) were required.

Appendix A shows the location of drill pads and tracks utilised during the reporting period. **Table 1** details the amount of disturbance in the different environmental categories.

CATEGORY	QUANTITY		AREA (hectares)
	Drill Pads (1200m ² - 1600m ²)	New Access Tracks km (4.5 m wide)	
Category B	0	0	0
Category B – 500m Buffer	0	0	0
Category C	0	0	0
Category C – 1km Buffer	0	0	0
Category A,B,C Exclusion	6	0.72	1.284
TOTAL	6 pads	0.72 km	1.284 hectares

Exploration Camp

The CCP exploration camp was in operation during the reporting period. Occupancy in the camp was low and did not exceed 50 persons at any given time.

Sewage Treatment Plant (STP)

A STP located near the camp was in operation during the reporting period. Effluent was treated to Class A and stored in a bank of 47KL tanks before being discharged to the authorised effluent dispersal field. The rate of discharge varied with camp occupancy. During the reporting period there was an average volume of 5000L of treated effluent discharged per day. Total treated effluent discharge during the reporting period was 1825KL. This discharge rate is significantly lower than the design capacity of both the STP and dispersal field.

During the reporting period 15 000L of "sludge" was removed from the STP by a certified liquid waste contractor (JJ Richards, Clermont). Removal of sludge is part of the maintenance schedule of the STP.

Bygana West Nature Refuge

There was no exploration activity in the Bygana West Nature Refuge during the 2014 reporting period.

All exploration activity in Bygana Nature Refuge was completed by December 2013. Rehabilitation was completed in the same month. All sites are monitored for regrowth, soil erosion and weed invasion.

The plates below show before and after photographs of two representative drill pads. The post-disturbance photograph was taken 2 months after rehabilitation was completed.



Site 245_028 Pre-disturbance



Site 245_028 After 2 months



Site 255_275 Pre-disturbance



Site 255_275 After 2 months

Rehabilitation

Rehabilitation works were conducted in accordance with the conditions stipulated in environmental authority EPPR00745013 and the Code of Environmental Compliance for Exploration and Mineral Development Projects.

The procedure for rehabilitation is outlined below:

1. Upon completion of drilling all equipment and other materials are removed from the site
2. As soon as practical a backhoe or dozer is used to backfill any excavations (drill sumps) with stockpiled fill material.
3. The sumps are left to stabilise for a minimum of two weeks.
4. A backhoe or grader is used to spread the stockpiled top soil evenly across the site.

5. Sites in Category B, Category B 500m Buffer, Category C and Category C 1km Buffer are seeded with native grasses.
6. All sites are regularly monitored for regrowth and any signs of weed incursion or soil erosion.

All sites in Category B or C are fully rehabilitated within 3 months of completion of drilling. All other sites are fully rehabilitated within a maximum of 6 months. At the time of preparing this report 95% of drill pads on EPC1690 have been rehabilitated. All remaining drill pads are scheduled to be rehabilitated by March 2015 once drilling is completed.

The plates below provide some examples of pre and post disturbance photographs.



Site A: Pre-disturbance



Site A: Immediately post-rehabilitation



Site B: Pre-disturbance



Site B: 12 months post rehabilitation



Site C: Pre-disturbance



Site C: 18 months post rehabilitation



Site D: pre-disturbance

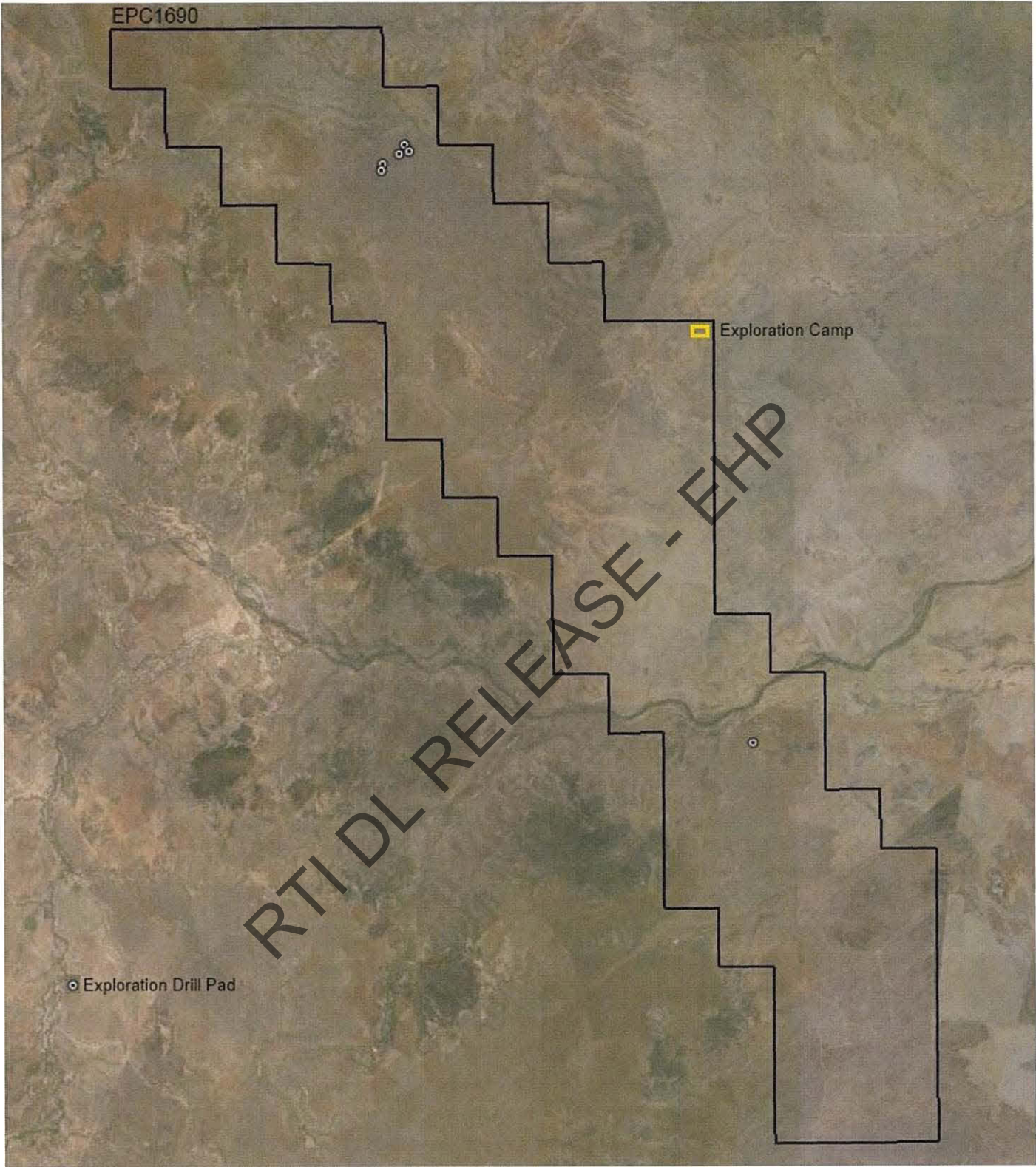


Site D: 24 months post rehabilitation



RTI DL RELEASE - EHP

APPENDIX A – Location of 2014 Exploration Drill Pads



2014-15 Annual Return for Environmental Authority EPPR00745013

Q4 Statement of Compliance – Non-compliant incident: STP Effluent spill

A non-compliance with Condition G3 (Table 9) was reported via email to Chris Loveday (DEHP) on the 5th of January 2015. A detailed situation report was sent to DEHP on the 7th of January 2015.

(a) A statement describing the non-compliance incident including photographs where appropriate

There was one non-compliance incident involving the release of treated effluent from an unauthorised discharge point as per Condition G3. Please see below for details.

Incident

Date of incident

During the night of 4 January 2015

Location

Carmichael Coal Camp (CCP) Sewage Treatment Plant (STP)

Description and Cause of Incident

During the night of the 4th of January 2015 a spill of approximately 150L of effluent occurred from the camp STP. The spill was caused by a broken actuator as described below:

A valve actuator in the STP failed and this triggered a fault in the programmable logic controller. The fault prevented the effluent pump from operating during the effluent pumping cycle. A visual alarm (flashing light) was activated but this was not noticed until the following morning. As a result the effluent tank overflowed and caused a mixture of treated effluent and sludge to spill out of the top of the STP. Most of the spill was contained to the STP roof but some spilled over the side of the STP and onto the ground. See Figures 1, 2 and 3 below. Estimated volume of the spill is approximately 150L in total.



Figure 1: Spill on top of STP (front)



Figure 2: Spill on top of STP (back)

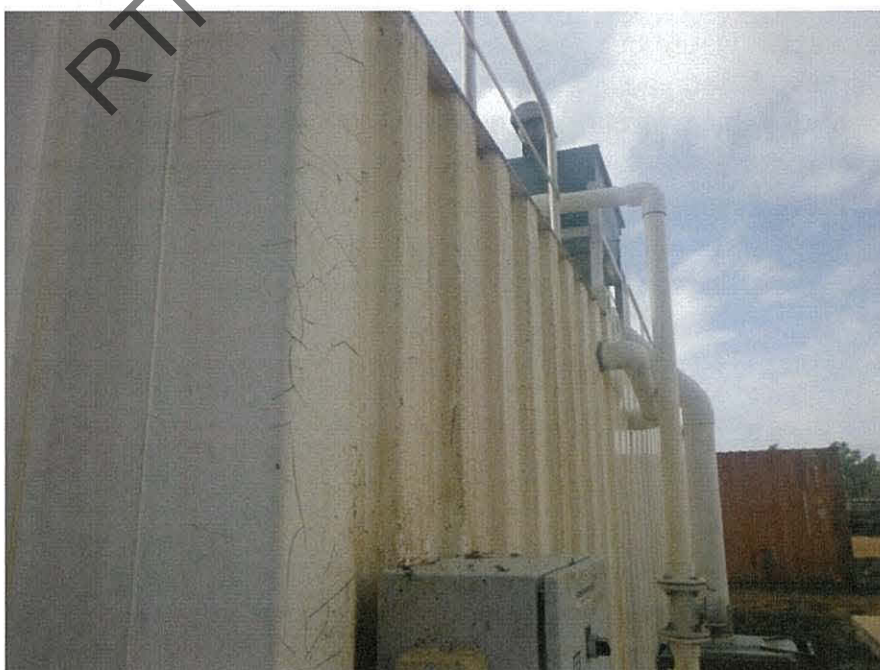


Figure 3: Small spill over the side of the STP

(b) A statement describing the environmental impacts resulting from the non-compliance incident

The environmental impact of the spill is considered to be minimal for the following reasons:

- The spill was a small volume (approx. 150L)
- The spill was completely contained within the STP and surrounding bunded area
- The spill did not enter a waterway or any drainage lines

(c) A statement describing the actions taken to repair any damage to the environment

Actions

The spill was first observed by the CCP camp manager at 0900 on the 5th of January 2015. The camp manager immediately shut off the pump to prevent the possibility of further spillage. The Site Senior Executive and site Environmental Advisor were notified at this time. DEHP were notified of the incident via email on the same day.

The contractor responsible for STP maintenance was contacted and mobilised to site on the afternoon of the 5th. The wastewater contractor diagnosed the problem and installed a temporary solution while replacement parts were ordered. The faulty equipment was replaced on the 13th of January 2015.

An investigation was undertaken to determine the root cause of the incident and to determine if further controls are required to prevent future spills.

Clean-up

The spilt effluent was left on the STP roof where it was exposed to direct sunlight. The sunlight neutralised any bacteria present and evaporated the water. The site was monitored regularly and once the liquid had evaporated the area was rinsed down with clean water.

(d) Details of any monitoring data which exceeded any of the environmental monitoring limits set out in the environmental authority.

There are no monitoring data or limits associated with this incident.

Hamish Manzi
General Manager Environment & Sustainability



2014-15 Annual Return for Environmental Authority EPPR00745013

Q11 Statement of Rehabilitation:

This statement provides additional detail to that required in Question 6: Area of disturbance/rehabilitation (hectares)

The total area disturbed during the reporting period is 1.284 hectares and includes clearing for access tracks and for drill pads. A total of 6 drill pads (1600 m² each) and 0.72 km of access tracks (4.5 m wide) were cleared during the reporting period.

The disturbance reflects the completion of all planned exploration activities for the reporting year. All drill pads have been rehabilitated and tracks have been left open to facilitate ongoing monitoring and future exploration activities.

Details are shown in the table below:

	DISTURBANCE (hectares)			
	Pads	Access Tracks	Total	Rehabilitated
2010-11 Reporting Year	0.5	1.5	2	0.5 (tracks still in use)
2011-12 Reporting Year	4.86	50	54.86	4.86 (tracks still in use)
2012-13 Reporting Year	6	50	56	5.7 (tracks still in use)
2013-14 Reporting Year	15.68	14.4	30.08	9.6 (tracks still in use)
2014-15 Reporting Year	0.96	0.324	1.284	0.96 (tracks still in use)
Total	28	116.2	144.2	21.62 hectares

Hamish Manzi
General Manager Environment & Sustainability

Adani Mining Pty Ltd
Level 25
10 Eagle Street, Brisbane, QLD 4000
GPO Box 2569, Brisbane, QLD 4001
Australia

Tel +61 7 3223 4800
Fax +61 7 3223 4850
info@adani.com
www.adani.com

Registered Office: Level 30, 10 Eagle Street, Brisbane, QLD 4000, Australia
ABN: 27 145 455 205

Release



Brisbane Office
308-322 Queen St Brisbane Qld

National Australia Bank Limited

Pay DEPARTMENT of ENVIRONMENT AND HERITAGE
the sum of TWELVE THOUSAND AND
ONE DOLLARS AND FIFTY CENTS

ADANI MINING PTY LTD
ABN 27 145 455 205

NOT NEGOTIABLE

200677
or bearer

\$

12061.50

Date 02/02/2015
200677

⑈200677⑈084004⑈17804⑈7199⑈

RTI s78B(2) - Personal Information

Running Sheet Summary

Complaint/Report Ref: CR66990

Complainant						
Ref	Name	Address	Phone	Mobile	Fax	Email
649121	Adani Mining Pty Ltd	Level 25, AMP Place 10 Eagle Street BRISBANE QLD 4001	07 3223 4800		07 3223 4850	hamish.manz i@adani.in

Alleged Source						
Ref	Name	Address	Phone	Mobile	Fax	Email
649121	Adani Mining Pty Ltd	Level 25, AMP Place 10 Eagle Street BRISBANE QLD 4001	07 3223 4800		07 3223 4850	hamish.manz i@adani.in

Incident Location		
Name	Risk Level	Address
EPC1690		

Source Ref: CR66990

Action Source Ref:

Date Commenced: 30/MAR/15 **First Action:** Y

Officer Involved: WALTON, Alison

Responsible Office: ES - Reg Serv - Central West -Mining - Emerald Office

Action Type: Desktop review

Inspection Type:

Enforcement Measure Type:

Referral To:

Action: On 4th January 2014, a spill of approximately 150L of effluent occurred from the STP on EPC1690 (EPPR00745013) due to a valve failure. The incident was only realised on the morning of the 5th January and an email was sent to Chris Loveday on 5th January notifying EHP of the incident. The incident is a non-compliance with condition G3: ?treated effluent from the sewage treatment plant must only be discharged in accordance with the wastewater management plan or from the authorised discharge points, as specified in Table 9: Effluent Discharge Locations to the areas shown in Table 10: Absorption trenches.

Time Spent Hours: 1

Time Spent Minutes:

Outcome: NFA

Outcome Description: From the information provided in the annual return, no environmental harm has occurred as a result of the spill. The spill was completely contained within the STP (i.e. on the roof) and effluent that ran off the side was contained within the surrounding bunded area. The spill did not enter a waterway or any drainage lines. No monitoring was undertaken as a result of the incident as the spill was not released to the environment. No further action is required by EHP ? Adani have fulfilled the requirements of their EA (see dot points below) regarding an incident and no environmental harm occurred (therefore enforcement measures are not required).

- Condition A13 ? EA holder must notify the department within 24hours of becoming aware of the incident.
- o The incident was discovered on 5th January 2015 and EHP was notified on 5th January 2015.
- Condition A15 - within 6 weeks, environmental monitoring must be performed and written advice must be provided to the department.
- o No monitoring was undertaken/required as the spill did not impact the environment. It was fully contained.

Due Date:

Date Completed: 30/MAR/15

Compliance program - audit report

This report is to be completed for every compliance inspection/audit undertaken (including site inspection and desktop review). The information in this report is to be used to update the relevant record/s in Ecotrack, and to obtain approval for compliance/enforcement action.

INSPECTING OFFICER SIGN OFF

Officer Name: Adam Gilmour	Signature: sch4p4(6) Signature	Date: 01/08/2013
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Administration

Ecotrack Case No.	CA2883	CARMS File No.	
ACP project name (where relevant)			
Supervisor	Recommendations Approved: Yes Comment:		

GENERAL INFORMATION

Person and location details

Person/ organisation/ development name (where relevant)	Adani Mining Pty Ltd
Location (incl. street address, lot/plan, tenure, estate, LGA where relevant)	EPC1690 is located in the Galilee Basin approximately 250 kilometres (km) north west of Emerald and 220 km south of Charters Towers
Inspection focus/ agency interest	Land

Description of activity and permit

Type of activity (Eg. ERA, park visitor activity)	Exploration
Permitting body	Environment and Heritage Protection
Permit No.	MIN102643011
Permit effective date	1 March 2013
Permit Act/type (e.g. EP Act / registration certificate)	Level 1 Exploration Permit for Coal.

Client (Permit holder, if DEHP is permitting body)

Permit holder name (if any)	Adani Mining Pty Ltd
Position title	
Phone/Fax No.	
Registered business address	Level 25, AMP Place, 10 Eagle Street, Brisbane QLD 4000.

Client (On-site Representative)

Name	Shaun Lovelock
Position title	Environmental Advisor
Phone/Fax No.	sch4p4(6) Personal information
Other contact details	Shaun.lovelock@adnai.co m

Responsibility	
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Responsibility	Environment
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PRE-INSPECTION INFORMATION (N.B. refer to audit plan where relevant)

Environmental risk	2/Low
Last inspection date	N/A
General description of location and surrounding environment	EPC1690 is located within the property Moray Downs. Moray Downs has historically been used for cattle production and grazing. Historic broad scale clearing of native vegetation has occurred with regions of regrowth and as well as remnant vegetation. There is evidence of fire being used to clear fuel loads within the EPC1690 as part of land management practices. The Carmichael River is the primary watercourse located within the EPC and is known to provide habitat to Koalas and other native species. Existing farming infrastructure exist throughout the EPC including watering troughs and dams as well as stock holding points.
Outstanding issues and/or non-compliances (e.g. EPO's)	N/A
Current enforcement measures	None

INSPECTION RESULTS SUMMARY (NB: refer to audit/inspection checklist where relevant)**Inspection Overview**

Date of inspection	25 July 2013
Inspection days	1 day
Inspection trigger	Routine
Inspection type	Compliance Assessment
Inspection level (refer to appendix for definitions)	B/Condition Inspection
Inspection focus	Land Schedule
Further info (e.g. lab analysis, photos, drawings, interviews, official notebook)	Photos and field inspection

Overall Findings

Overall, the exploration activities appeared to be in compliance with Department Interest, Land of EA MIN102643011. Progressive rehabilitation was observed within completed drill pads that were no longer in use. Access tracks to the drill pads had not undergone any rehabilitation, as part of weed management of the drill pads, access tracks are to be rehabilitated once initial groundcover has been established and Parthenium treated with herbicides if necessary.

Watering troughs and dams were observed to be functioning, during the inspection three Black Throated Finches were observed drinking from an established turkeys. Clearing of vegetation around existing drill pads was noted, cleared topsoil was stockpiled adjacent to the drill pad. Drill sumps were recorded located well within the drill pad disturbance area. Cleared vegetation was stockpiled to be used as part of the rehabilitation of disturbed drill pads. The Sewage Treatment Plant (STP) was functioning well within capacity with a level A water quality being produced for irrigation to both irrigation fields and absorption trenches. The effluent irrigation field has been seeded with native grasses and Buffel. Vegetation cover appeared to be sufficient with

no visible areas of effluent pooling, die back or scouring. According to Adani Environment Officer the STPs have been operating under capacity due to the reduction of people staying in the accommodation camp, this has resulted in the STP being manually fed with additional bio supplements (canned pet food) to maintain optimal operating parameters. Four generators are located on site of the running of the accommodation village. Clearing of access tracks and drill pads within the Bygana West Nature Refuge had shown evidence of avoiding and minimising of native vegetation. During the inspection of a drill pad and drill rig, an oil spill occurred from an oil filter failing on the drill rig, the crew immediately implement clean up protocols and procedures.

Issues

During the inspection, the following minor non-compliances / minor issues were identified:

Client Action/s Required

- Adani Mining Pty Ltd to review the proposed 3D seismic program and liaise with the department if an amendment to the EA is required.
- Review the operational area of sumps within exploration drill pads and submit an application to the department to amend the EA if required.
- The department recommends including the definition of "mature" tree in the next EA amendment.
- Review condition F43 of the EA and consider a fire management plan as part of controlling hazardous fuel loads within EPC1690.
- Confirm and supply to the department written confirmation in accordance with condition F52 of the EA that written approval to create access tracks in the Bygana West Nature Refuge has been provided by the background landholder.
- Review the Rehabilitation Schedule of the EA (condition F70, Table 8) and submit an application to the department to amend the EA to update native species composition.
- Provide to the department written notification when, and under what approval, existing muster points were cleared of vegetation and established.
- Review conditions of the EA for repetition of conditions and liaise with the department to amend as necessary.

DEHP Actions Taken/Recommended

- It is recommended that a compliance inspection letter is sent to the proponent advising that the department considers Adani Mining Pty Ltd to be in compliance with its Land Schedule of the EA.

Attachment 1 – Photos of Rehabilitation, Water Storage and Exploration works located on EPC1690.



#115 drill line-Pad number 203 rehabilitated with woody debris (12months old).



#112/Pad106, Rehabilitated Poplar Box Line



Muster point, 2000m² in area, located adjacent to turkey nest watering point where Black-throated Finches were sighted.



Location of Turkey nest watering point, where Black-throated Finches were sighted during the inspection.



C103, new drill pad that was constructed on 19/6/13, sumps are located in the foreground.

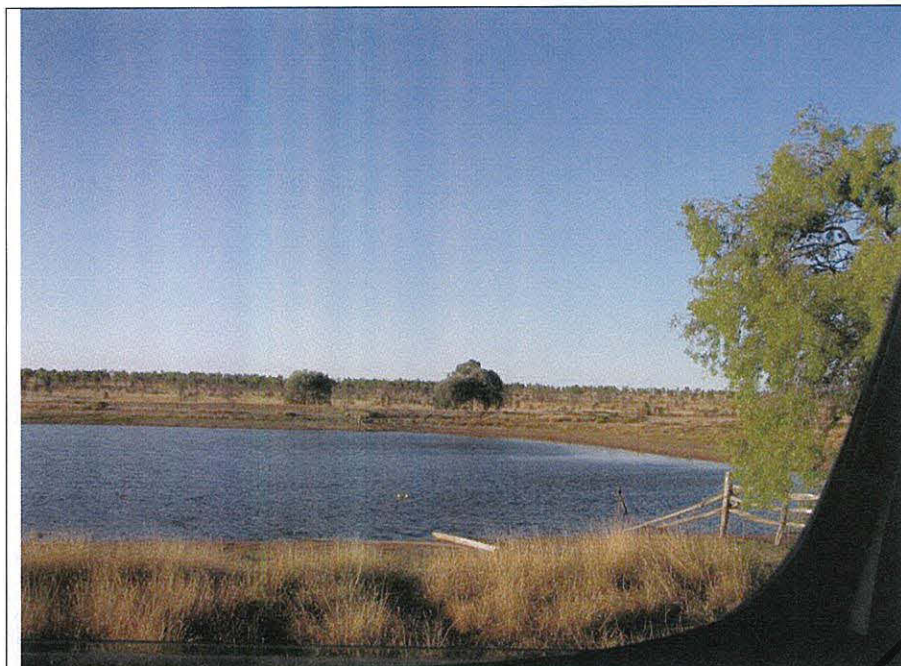
Red Hill Quarry, currently not in use.



Drill pad located in the Bygana West Nature Refuge.



New drill pad with drill rig located in the foreground.



Mathersons Dam, area is currently under agistment by the adjacent neighbour who is operating a water pump for cattle from the dam.



13 August 2013

Department of
**Environment and
Heritage Protection**

Mr Hamish Manzi
General Manager Environment and Sustainability
Adani Mining Pty Ltd
Level 25, 10 Eagle Street
Brisbane, QLD 4000

Dear Mr Manzi,

Re: Proactive compliance inspection of EPC 1690 targeting Schedule F (Land) of Environmental Authority MIN102643011 on 25 July 2013.

The Department of Environment and Heritage Protection (the department) refers to the site inspection of Exploration Permit for Coal (EPC) 1690, conducted by departmental Environmental Officers Adam Gilmour and Juliana Mccosker on 25 July 2013. This site inspection was conducted in the presence of Mr Shaun Lovelock from Adani Mining Pty Ltd.

The purpose of the inspection was to evaluate Adani Mining Pty Ltd's compliance with Environmental Authority (EA) MIN102643011 (Schedule F) as part of the department's proactive compliance program. This inspection was not a complete audit of the site.

Thank you for providing your time and assistance during the site inspection. This letter outlines general observations from the inspection as well as required actions to be implemented by Adani Mining Pty Ltd to ensure continuing compliance with EA MIN102643011.

Observations

- Site sewage treatment plants (STPs) was operating on site without any detectable odour noted. Treated effluent and effluent storage tanks had sufficient storage capacity at time of the inspection. Associated pumps and pipes appeared to be in operating order.
- Four generators were observed within the mining camp, two operating at the time of the inspection and two in reserve.
- External irrigation of treated effluent appeared to be well vegetated without any noticeable areas of scalding, scouring or uncontrolled effluent release.
- Observed access tracks did not appear to show signs of erosion or exceedence in conditioned width. Active rehabilitation of drill pads was observed with visible native vegetation as well as non-native ground cover becoming established.
- Watering points and troughs were noted as functional and containing water as required for the management of the Black Throated Finch.

- Exploration activities were noted within the Bygana West Nature Refuge. Evidence in terms of avoidance and minimisation of disturbance in the clearing of access tracks and exploration drill holes was observed.
- Significant vegetation fuel loads were observed throughout the EPC.
- Two muster points cleared of vegetation were noted on site. An additional two muster points exist, however they were not visited as part of this inspection.
- Bunding of chemicals was observed within the lay down areas near the mine camp as well as the temporary light vehicle service area.
- Appropriate use of spill kits was observed on site.

Required Actions

- Adani Mining Pty Ltd to review the proposed 3D seismic program and liaise with the department if an amendment to the EA is required.
- Review the operational area of sumps within exploration drill pads and submit an application to the department to amend the EA if required.
- The department recommends including the definition of "mature" tree in the next EA amendment.
- Review condition F43 of the EA and consider a fire management plan as part of controlling hazardous fuel loads within EPC1690.
- Confirm and supply to the department written confirmation in accordance with condition F52 of the EA that written approval to create access tracks in the Bygana West Nature Refuge has been provided by the background landholder.
- Review the Rehabilitation Schedule of the EA (condition F70, Table 8) and submit an application to the department to amend the EA to update native species composition.
- Provide to the department written notification when, and under what approval, existing muster points were cleared of vegetation and established.
- Review conditions of the EA for repetition of conditions and liaise with the department to amend as necessary.

Adani Mining Pty Ltd are reminded that section 319 of the *Environmental Protection Act 1994*, which sets out the general environmental duty, requires anyone who carries out an activity that causes or is likely to cause environmental harm to take all reasonable and practicable measures to prevent or minimise the harm. In this regard, Adani Mining Pty Ltd are encouraged to actively follow the recommendations of this letter and implement strategies to effectively address them.

Should you have any further enquiries, please do not hesitate to contact Adam Gilmour, Senior Environmental Officer of the department on 07 4987 9342.

Yours sincerely,

sch4p4(6) Signature

Christopher Loveday
 Manager – Environmental Services Mining
 Central Region
Department of Environment and Heritage Protection