Government of Western Australia Department of Water and Environmental Regulation



Annual Audit Compliance Report Form

Environmental Protection Act 1986, Part V

Once completed, please submit this form either via email to <u>info-der@dwer.wa.gov.au</u>, or to the below postal address:

Department of Water and Environmental Regulation Locked Bag 33 Cloisters Square PERTH WA 6850

Section A – Licence Details			
Licence number:	L8937/2015/1	Licence file number:	DER2015/002837
Licence holder:	Pilbara Ports Authority		
Trading as:	Pilbara Ports Authority		
ACN:	ABN 94 987 448 870		
Registered address:	The Esplanade, Port Hedland WA 6721		
Reporting period:	01/07/2017 to	30 / 06 / 2018	

Section B – Statement of Compliance with Licence Conditions

Did you comply with all of your licence conditions during the reporting period? (please tick the appropriate box)

 \Box Yes – please complete:

- section C;
- section D if required; and
- sign the declaration in Section F.

 \boxtimes No – please complete:

- section C;
- section D if required;
- section E; and
- sign the declaration at Section F.

Section C – Statement of Actual Production

Provide the actual production quantity for this reporting period. Supporting documentation is to be attached.

Prescribed Premises Category	Actual Production Quantity	
58	19,925,209 tonnes	

Section D – Statement of Actual Part 2 Waste Discharge Quantity

Provide the actual Part 2 waste discharge quantity for this reporting period. Supporting documentation is to be attached.

Prescribed Premises Category	Actual Part 2 Waste Discharge Quantity	
N/A	N/A	

Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period.

			1/10/2017 7/10/2017
			11/10/2017
	7		12/10/2017
Condition no: 7		Date(s) of non-	18/10/2017
		compliance:	26/03/2018
			10/04/2018
			24/04/2018
			14/05/2018
			22/05/2018

Details of non-compliance:

PPA accepted iron ore product to the Premises that did not have moisture content at or above the dust extinction moisture (DEM).

DWER issued a Notice of Alleged Breaches of the *Environmental Protection Act 1986* to PPA on 9 July 2018 regarding these non-compliances (your ref: DER2015/002837). The following correspondence also references this matter:

- 20 July 2018: PPA issued a response to DWER (our ref: A631785).
- 3 August 2018: DWER issued a response to PPA's letter (your ref: DER2015/002837).
- 16 August 2018: PPA issued a response to DWER (our ref: A641381).

This matter remains under investigation by DWER. Please refer to Attachment 1 for copies of the above-mentioned correspondence.

What was the actual (or suspected) environmental impact of the non-compliance?

NOTE – please attach maps or diagrams to provide insight into the precise location of where the noncompliance took place.

Refer above

Cause (or suspected cause) of non-compliance:

Refer above

Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:

Refer above

Was this non-compliance previously reported to DWER?

Yes, and

Reported to DWER verbally	Date: / /
Reported to DWER in writing	Date: 31/10/2017, 31/01/2018, 26/04/2018, 26/07/2018

Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period.

	- · · · · · · · · · · · · · · · · · · ·		14/08/2017
			21/09/2017
			27/09/2017
			6/10/2017
			10/10/2017
			14/10/2017
Condition no:	9	Date(s) of non- compliance:	17/10/2017
			2/11/2017
			5/11/2017
			14/11/2017
			10/12/2017
			13/04/2018
			26/04/2018
			13/05/2018
			1/06/2018
			3/06/2018

Details of non-compliance:

Bulk granular material was out-loaded from the Premises which had a moisture content below the weighted average DEM level for that product.

DWER issued a Notice of Alleged Breaches of the *Environmental Protection Act 1986* to PPA on 9 July 2018 regarding these non-compliances (your ref: DER2015/002837). The following correspondence also references this matter:

- 20 July 2018: PPA issued a response to DWER (our ref: A631785).
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This matter remains under investigation by DWER. Please refer to Attachment 1 for copies of the above-mentioned correspondence.

What was the actual (or suspected) environmental impact of the non-compliance?

NOTE – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.

Refer above

Cause (or suspected cause) of non-compliance:

Refer above

Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:

Refer above

Section E – Details of Non-Compliance with Licence Condition			
Was this non-compliance previously reported to DWER?			
Yes, and			
Reported to DWER verbally	Date: / /		
Reported to DWER in writing	Date: 31/10/2017, 31/01/2018, 29/03/2018, 26/04/2018, 26/07/2018		

Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period.

Condition no:	12	Date(s) of non- compliance:	July 2017, August 2017, September 2017, November 2017, December 2017 and January 2018
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Details of non-compliance:

Emissions monitoring of particles as PM₁₀ was not "continuous" over the required 24 hour averaging period at a number of monitoring locations throughout the year. "Continuous" is defined in L8937 as a data recovery rate of at least 90%. The National Environment Protection (Ambient Air Quality) Measure Technical Paper No. 5 Data Collection and Handling (Peer Review Committee 2001) requires a minimum 75% data capture to produce a valid 24 hour average. For BAM 1020 instruments (M5 and M7) that is eighteen (18) hourly beta readings per day, for e-samplers (M6) that is 108 ten minute average readings per day. Where this was not achieved the data capture result was set to zero for the purposes of the calculation. Furthermore, PRC indicates that each calendar quarter should be compliant with data capture targets. Therefore data has been presented and assessed for each quarter period for both PPA Boundary Monitors and Taplin Street.

Table: FY2017/18 data capture summary – 24 hour average concentration of PM10

	M5 (Utah North)	M6 (Utah South)	M7 (Utah West)
Q1 2017/18	100	100	59.7
Q2 2017/18	96.7	98.4	91.0
Q3 2017/18	85.6	83.3	83.3
Q4 2017/18	96.7	96.7	100.0
Annual	90.9	94.6	83.5

What was the actual (or suspected) environmental impact of the non-compliance?

NOTE – please attach maps or diagrams to provide insight into the precise location of where the noncompliance took place.

There was no actual environmental impact due to this non-compliance, because monitoring does not increase the risk of emissions or discharges. Furthermore, dust monitoring data was still available for dust management during much of the data outages at the M5 and M7 monitors. These instruments house both a beta attenuation monitor (BAM) and a Real Time Unit (RTU). The BAM component uses the principle of beta ray attenuation to determine a concentration of particulate matter in air at an hourly frequency in accordance with AS 3580.9.11. The RTU uses a nephelometer to determine a concentration of particulate matter in air at a 0 minute frequency. Most of the data outages at M5 and M7 were for the BAM data only, while RTU data was still available for real time management of operations and dust sources.

Cause (or suspected cause) of non-compliance:

The primary cause of data loss at the M7 monitoring station was power supply interruptions followed by instrument stabilization. Power interruptions were caused by ageing batteries connected to the solar power supply. Following each power supply interruption the BAM unit automatically undergoes an instrument stabilization period which can take up to an hour. Therefore even a very short interruption to power supply causes loss of at least one hourly BAM reading. Intermittent flow faults also contributed to data losses at the monitor. A faulty temperature sensor was replaced on 4 September 2017.

In January 2018 the monitoring stations at M5, M6 and M7 were shutdown for a minimum of 4 days to protect the equipment from impacts of Tropical Cyclone Joyce. Following this, the M6 monitor experienced various faults, the cause of which could not be identified, which resulted in further data losses. Various components of the monitor were replaced sequentially until the issue was resolved.

Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:

Ecotech, a specialist contractor, provides all of PPA's dust monitoring equipment through a rental agreement and also provides services, including preventative maintenance, operation and troubleshooting. In a recent contract renewal PPA introduced financial penalties for inadequate data capture to improve dust monitor performance. Furthermore, at M7 the entire bank of twelve batteries were replaced on 9 August 2017 to improve power supply reliability.

Was this non-compliance previously reported to DWER?

\boxtimes	Yes,	and
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Reported to DWER verbally	Date: / /
Reported to DWER in writing	Date: 29/09/2017, 30/11/2017, 31/01/2018, 28/03/2018

Section E – Details of Non-Compliance with Licence Condition					
Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period.					
Condition no:	Date(s) of non-compliance: 30/08/2017 23/09/2017 23/09/2017 25/04/2018 25/04/2018				
Details of non-comp	oliance:				
- 30/08/2017 - 23/09/2017 - 25/04/2018					
	al (or suspected) environmen h maps or diagrams to provide i e.	•			
	There was no actual environmental impact due to this non-compliance, because monitoring does not increase the risk of emissions or discharges.				
Cause (or suspected cause) of non-compliance:					
 30/08/2017 – human error, filter papers were not deployed. 23/09/2017 – mains power failure resulted in the M9 monitor not operating for the required period of time 25/04/2018 – the <i>MV Anangel Progress</i> received a split cargo of iron ore (93,382 tonnes) and manganese (18,509 tonnes). HVAS were activated to obtain a sample for shiploading of this vessel, however a change to the cargo load plan moved manganese loading outside of the HVAS run time. 					
Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:					
 30/08/2017 – filter papers were deployed the following day on 31/08/2017 23/09/2017 – maintenance team restored the mains power to the unit 25/04/2018 – internal process to communicate changes to cargo loading has been strengthened between Landside Operations and Environment teams 					
Was this non-compliance previously reported to DWER?					
Yes, and					
	Reported to DWER verbally Date: / /				
Reported to DWER in writing Date: 29/09/2017, 30/11/2017 and 31/05/2018					

Section E – Details of Non-Compliance with Licence Condition				
Please use a separ at a time during the	ate page for each condition v reporting period.	with which the licence	holder was non-compliant	
Condition no:	16	Date(s) of non- compliance:	1 August 2017 20 September 2017 26 September 2017 21 October 2017 27 October 2017 27 May 2017	
Details of non-com	oliance:			
Point berth into har Moormaster system	raulic oil was discharged fron bour waters on six occasions n comprises 13 Cavotec units e vessel's hull to safely moo	during the Reporting , each with a hydraulio	Period. The Cavotec cally powered vacuum pad	
What was the actua	al (or suspected) environmen	tal impact of the non-c	ompliance?	
NOTE – please attact compliance took plac	h maps or diagrams to provide i e.	nsight into the precise lo	cation of where the non-	
 the biodegra the limited v to 200 litres large tidal m 	environmental impact of thes adable nature of the hydraulic olumes discharged (the volu) novements and strong curren and encouraging natural degr	c oil me discharged in each ts experienced in Port	event ranged from 2 litres	
Cause (or suspecte	ed cause) of non-compliance:			
	ere due to a failure of a comp itting, hardline, or flexible hos		votec units (e.g. valve, o-	
Action taken to mitinon-compliance:	gate any adverse effects of n	on-compliance and pr	event recurrence of the	
specifications, inclu - 8 weekly off pack, with a - 24 weekly lu Furthermore PPA is	undergo regular scheduled m iding: line inspections of the winch ny issues either rectified imm ubrication inspections and rep s progressively replacing eac ruck assembly to the hydrau	assembly, truck assened adiately or planned in bairs of the hydraulic p h of the hydraulic hard	mbly and hydraulic power ower pack.	
Was this non-comp	liance previously reported to	DWER?		
Yes, and				
Reported to	DWER verbally	Date: / /		
Reported to	DWER in writing		7, 26 September 2017, 9 vember 2017, 9 November	

Section E – Details of Non-Compliance with Licence Condition					
Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period.					
Condition no:	16	Date(s) of non- compliance:	18 July 2017 19 July 2017 1 November 2017 20 November 2017 7 December 2017 6 January 2018		
Details of non-com	oliance:				
 prescribed premise 18 July 201 from the shi positioned of 19 July 201 from the CV 19 July 201 from the bac 19 July 201 from the bac 1 November sediment wa premise and from cleanin 20 November sediment wa prior to main 7 December discharged water accun shiploader n 6 January 2 from the bac sediment 	ntially containing product res s either into harbour waters 7 – 50 litres of process water ploader conveyor CV07 into over the tundish during clean 7 – 50 litres of process water 06 gallery into the harbour of 7 – 50 litres of process water ck of wharf spoon drain into r 2017 – 50 litres of process as discharged from sump ST d then onto sealed ground ou ng exceeding the capacity of er 2017 – 300 litres of proces as discharged from Transfer ntenance works to fully seal of r 2017 – 100 litres of process from the shiploader conveyon nulating on the outload circu not being positioned over the 018 – 50 litres of process watch of wharf spoon drain to th	or onto adjacent land. r containing iron ore set the harbour due to the ing r containing iron ore set lue to a leak in the sea r containing iron ore set the harbour due to a le water containing iron ore the harbour due to a le water containing iron ore the pump ss water containing iron Station 3 into the harb the area and prevent ri s water containing iron r CV07 into the harbour it during a maintenance tundish when the conv ater containing iron ore e harbour during clean	diment was discharged shiploader not being diment was discharged lant diment was discharged ak in an expansion joint ore and spodumene d within the prescribed remise due to the inflow n ore and spodumene our during cleaning works sk of future discharge ore sediment was r due to dust suppression e shutdown and the veyors were ramped up sediment was discharged ing out of residual		
	What was the actual (or suspected) environmental impact of the non-compliance? NOTE – please attach maps or diagrams to provide insight into the precise location of where the non-				
compliance took plac					
- the limited v	environmental impact of the olumes discharged over the al movements experienced ir	annual period			
Cause (or suspecte	ed cause) of non-compliance	:			
	nerally occurred during plant ater after a shutdown period.		of running up conveyors		

Section E – Details of Non-Compliance w	ith Licence Condition
Action taken to mitigate any adverse effects of r non-compliance:	
PPA has made significant investment in improvi discharges of process water.	ng containment and cleaning systems to reduce
 funnel to capture wash down water from during cleaning. In 2016 250 meters of wall alongside CV discharge to harbour during cleaning In 2017 small gaps in Transfer Station 3 waters, were sealed to prevent risk of disstructure prior to installation works result In 2018 concrete divider walls were insta of sediment, reduce the sediment load e requirement for cleaning and risk of disc In 2018 a project to automate all dust su in transfer stations has commenced, so will prevent product from becoming excert will reduce the clean up effort required. 	alled in wharf sumps, to increase the settling rate ntering the back of wharf drain and reduce the harge from this drain ppression sprays located on conveyor belts and that the sprays turn on with the conveyor. This ssively muddy during breaks in conveying, and mpletion checklist to include the following checks ioning: from cleaning or dust suppression sprays
 Ensure shiploader is parked over tundis Was this non-compliance previously reported to 	
\boxtimes Yes, and	
	Dete: / /
Reported to DWER verbally	Date: / / Date: 2/08/2017, 08/11/2017, 6/12/2017,
Reported to DWER in writing	20/12/2017, 11/01/2018

Section F - Declaration

I / We declare that the information in this Annual Audit Compliance Report is true and correct and is not false or misleading in a material particular¹.

I / We consent to the Annual Audit Compliance Report being published on the Department of Water and Environmental Regulation's (DWER) website.

Signature ² :		Signature:
Name: (printed)	RogenJohnston	Name: (printed)
Position:	Chief Executive Officer	Position:
Date:	20/9/2018	Date:
Seal (if signing under seal):		

¹ It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or mis/eading in a material particular.

to their knowledge is false or misleading in a material particular. ² AACRs can only be signed by the licence holder or an authorised person with the legal authority to sign on behalf of the licence holder.