

Annual Audit Compliance Report Form

Environmental Protection Act 1986, Part V Division 3

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

Department of Water and Environmental Regulation Locked Bag 10 Joondalup DC WA 6919

Section A – Licence details					
Licence number:	L9056/2017/1 Licence file number: DER2017/000318				
Licence holder name:	Pilgangoora Operations Pty Ltd				
Trading as:	Pilbara Minerals Pty Ltd				
ACN:	616 560 395				
Registered business address:	Level 2, 88 Colin Street, WEST PERTH WA 6005				
Reporting period:	01 / 07 / 20 to 30 / 06 / 21				

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)

- ☐ 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 in 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	
Category 5: Processing Plant	1,579,588 dmt processed ore 1,248,294 tonnes tailings produced	
Category 52: Power Station	6.9MW	
Category 73: Bulk storage of chemicals (diesel)	927m³ in aggregate	

Department of Water and Environmental Regulation

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		
Category 54: Camp Wastewater Treatment Plant	25113kL	
Category 64: Class II putrescible and inert landfill 4800 m ³		

Section E - Deta	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:	1	Date(s) of non- compliance:	Since March 2020	
Details of non-com	pliance:			
	sion from the Premises due to ty (TMF) discharging into a n		rom the Tailings	
What was the actua	al (or suspected) environmen	tal impact of the non-c	ompliance?	
	h maps or diagrams to provide i	·	·	
The environmental	impact was considered to be	minor.		
` .	ed cause) of non-compliance:			
Initial ponding water was identified following significant rain events in early 2020.				
Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:				
Works were undertaken to install interception trenches at the northern and southern sides of the TMF to return seepage to the process water pond for reuse and stop any discharge flowing into the natural creek line. As agreed with DWER, two additional shallow monitoring bores were installed downstream of the TMF to assess water quality. Sampling started in October 2021 and will continue for a period of 6 months.				
Was this non-compliance previously reported to DWER?				
☐ Reported to	DWER verbally	Date: / /		
□ Reported to	DWER in writing	Date: Initially in Marc	 ch 2020	

Section E – Deta	ils of non-compliance wi	th licence condition	າ	
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:	1	Date(s) of non- compliance:	23/03/2021	
Details of non-com	pliance:			
On the 23 rd of Mare (Stage 1) to another	sion of process water. ch 2021 water was being trar er area in the pit (Stage 2), v surrounding area flowing into	when the pipework dis	splaced, and pit water was	
What was the actua	al (or suspected) environment	tal impact of the non-c	ompliance?	
NOTE – please attac compliance took place	h maps or diagrams to provide in e.	nsight into the precise lo	cation of where the non-	
The area impacte considered to be m	d was approximately 0.39 inor.	hectares and the e	nvironmental impact was	
Cause (or suspecte	ed cause) of non-compliance:			
•	ed because the discharge line ge point during the operation	_	hored and moved outside	
Action taken to miti non-compliance:	gate any adverse effects of n	on-compliance and pro	event recurrence of the	
On the day of the event the pump was turned off, the line disconnected, and samples taken of the spill for analysis.				
 To prevent a reoccurrence, actions included: Pipeline was anchored using pickets. Mining Supervisors checklists were updated to assess correct setup of the pipeline, including its anchoring. 				
Was this non-compliance previously reported to DWER?				
∑ Yes, and				
Reported to	Reported to DWER verbally Date: / /			
⊠ Reported to	DWFR in writing	Date: 25/03/21		

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:	1	Date(s) of non-compliance:	18/03/2021
Details of non-comp	pliance:		
creek. On the 18 th of Marc	sion of processing water into ch 2021 between 11.00am an which in turn overflowed disc	nd 12.00pm, the proces	ssing pond overflowed into
What was the actua	al (or suspected) environmen	tal impact of the non-c	ompliance?
NOTE – please attac compliance took place	h maps or diagrams to provide i e.	nsight into the precise lo	cation of where the non-
Cause (or suspecte	ed cause) of non-compliance:		
The spill occurred during a shutdown due to an imbalance between the water supplied from production bores and a lower abstraction from the processing pond, which caused the overflow.			
Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:			
On the same day of the event, bores supplying the processing pond were shut down and water levels reduced.			
 To prevent a reoccurrence, actions included: Recalibration of visual and audible alarms for the levels of the process pond. Pond was dredged to increase storage capacity 			
Was this non-compliance previously reported to DWER?			
⊠ Yes, and			
☐ Reported to	DWER verbally	Date: / /	
☐ Reported to	DWER in writing	Date: 25 / 03 / 20	 21

Section E – Details of non-compliance with licence condition			
Please use a separat a time during the	rate page for each condition vertex reporting period.	vith which the licence I	holder was non-compliant
Condition no:	1	Date(s) of non- compliance:	21/04/2021
Details of non-com	pliance:		
At approximately 19	sion of process water. 9:00 on the 23 rd April 2021 the ond. Subsequently, the sedin creek.	•	•
What was the actua	al (or suspected) environmen	tal impact of the non-c	ompliance?
	h maps or diagrams to provide in	·	•
The immediate are	a impacted was approximatel	y 100m2 and then con	fined to the creek.
<u> </u>	ed cause) of non-compliance:		
	on-compliance was a continu whilst the TMF return decan		
Action taken to miti non-compliance:	gate any adverse effects of n	on-compliance and pro	event recurrence of the
 Install flood light so the control-room operators can visually monitor levels through CCTV. Implementation of new communication procedure between control-room operators on process water pond levels to trigger emergency response plans. Dredge pond to increase capacity. 			
Was this non-compliance previously reported to DWER?			
∑ Yes, and			
☐ Reported to	DWER verbally	Date: / /	
□ Reported to		Date: 27 / 04 / 21	

Section E - Deta	ils of non-compliance wi	th licence conditior	າ
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:	2	Date(s) of non- compliance:	06/09/2020
Details of non-comp	oliance:		
approved limit for T The Power Station a TRH result of 17.	he Oily Water Separator (OW otal Recoverable Hydrocarbo OWS outflow water was sam 1 mg/L. Prior to the elevated utilised for dust suppression a ent.	ons (TRH). pled on the 6 th of Sept result becoming knowi	ember 2020 and recorded n, a small quantity of OWS
What was the actua	al (or suspected) environment	tal impact of the non-c	ompliance?
NOTE – please attac compliance took plac	h maps or diagrams to provide in e.	nsight into the precise loo	cation of where the non-
was limited to an in	impact was considered very n ternal haul road.		
Cause (or suspecte	ed cause) of non-compliance:		
The cause of the non-compliance was an incorrect sampling technique and delays on the water samples turn around.			
Action taken to mitinon-compliance:	gate any adverse effects of n	on-compliance and pre	event recurrence of the
Use of the Power Station Oily Water Separator outflow water ceased immediately following receipt of the monitoring results.			
 To prevent recurrences of this non-compliance a number of actions were undertaken including; Communication with the Water Cart operators to empty tank into an evaporation lined pond. Develop a new safe-work-instruction (SWI) for the oily water separator sampling technique. 			
Was this non-compliance previously reported to DWER?			
⊠ Yes, and			
Reported to	Reported to DWER verbally Date: / /		
□ Reported to I	DWER in writing	Date: 23 / 09 / 20)

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:	2	Date(s) of non- compliance:	3/10/2020
Details of non-comp	oliance:		
	arge of sewage. per 2020 between 04.00am a overtopping main sewer pit a		
What was the actua	al (or suspected) environmen	tal impact of the non-c	ompliance?
	h maps or diagrams to provide i	·	•
An area of approx impact was conside	imately 433m ² of already di ered to be minor.	sturbed land was imp	pacted. The environmental
Cause (or suspected	ed cause) of non-compliance:		
The cause of the non-compliance was a failure of the duty maceration pumps due to one pump tripping out and the other running but not pumping.			
Action taken to miti non-compliance:	gate any adverse effects of n	on-compliance and pro	event recurrence of the
On the same day of the event, remedial actions were undertaken which included pumping out the sump and hosing down the area. Bioremediation of the soil was not able to be carried out due to the high number of underground services in the area.			
 To prevent recurrences of this non-compliance a number of actions were undertaken including: Posters on every toilet wall of what is accepted in the sewage system Weekly checks of the water levels of the sewage pits and the correct operation of the system. New pumps installed with duty standby 			
Was this non-compliance previously reported to DWER?			
☐ Reported to	☐ Reported to DWER verbally Date: / /		

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. Date(s) of non-Condition no: 5 Jul20 - Jun21 compliance: Details of non-compliance: Inspectors noted that a section of the tailings thickener was unbunded, as it was not captured by the concrete pad where the rest of the processing plant is placed. 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. No environmental impact. Cause (or suspected cause) of non-compliance: The original design of the containment bunds around the Tailings Thickener only included the pipelines and pumps of this tank. Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance: PLS proposed as an alternative spill control the use of a nearby sediment pond as the designated containment control for the Tailings Thickener tank. This was discussed with DWER, and a licence amendment application was lodged to reflect this change. Was this non-compliance previously reported to DWER? Yes, and Date: 21 / 04 / 21 - DWER Inspection Reported to DWER verbally 24 / 06 / 21 – Meeting at DWER office Reported to DWER in writing Date: 29 / 06 / 2021

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. Date(s) of non-18/10/20; 6/9/20; and Condition no: 14 compliance: 10/1/21 Details of non-compliance: Some exceedances of the trigger levels for Gross Alpha and Gross Beta activities were not immediately reported to DWER as per Condition 14. 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. No environmental impact. POPL has undertaken all Gross Alpha, Gross Beta, Radium 226 and 228 testing in accordance with Condition 12, and all results have confirmed that Radium 226 and Radium 228 levels remain below the Condition 12 trigger levels. There was no licence limit exceeded. Note: Trigger levels were updated in the latest version of license L9056/2017/1, as of 24/03/21 Cause (or suspected cause) of non-compliance: Whilst all relevant monitoring data for the Gross Beta results has been reported to DWER in accordance with Condition 21, the reporting of the results reaching the trigger level was not completed in accordance with Condition 14 due to an error within the POPL monitoring database (INX-InViron). Investigation by POPL has revealed that the external laboratory changed the naming convention for Gross Beta without informing POPL. As a result, the automated database notifications were not activated in these instances. Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance: POPL completed a database review and communicated with both the database provider, the external laboratory and POPL employees the requirements and expectations for respecting naming conventions of Environmental Samples. Was this non-compliance previously reported to DWER? Yes, and Reported to DWER verbally Date: / / Reported to DWER in writing Date: 4 / 3 / 21

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.

0 ""	40	Date(s) of non-	
Condition no:	18	compliance:	Jan-Jun 2021

Details of non-compliance:

Some SWL exceedances non-compliances (TMFB01, TMFB02, TMFB04, TMFB05) were not reported to DWER within 7 days as required by Condition 18.

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.

Water ponding around the TSF was captured in interception trenches and reused at the Process Plant, or as dust suppression at the TMF. The environmental impact was considered to be minor.

Cause (or suspected cause) of non-compliance:

Based on the initial results it is suggested that TMFMB01 and TMFMB02 groundwater levels could be impacted by seepage from the TMF; while raising groundwater levels of TMFMB04 and TMFMB05 are more likely to be the result of natural seasonal variation, including onsite annual rainfall above average for the past two years.

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

PLS engaged a consultant hydrogeologist with extensive experience in the Pilgangoora Project to review the monitoring data and provide an assessment of the potential causes of the elevated groundwater levels.

PLS will continue monitoring of the standing water levels and water quality for a further 12 months prior to any decision on the need to install recovery bores around the TMF. During this period PLS will continue to implement the current controls including the operations of the newly installed northern and southern interception trenches and the operation of Production Bores PWB004 and PWB002.

In order to maintain compliance with the Operating Licence (L9056/2017), in addition to the measures already implemented, PLS applied for a licence amendment to remove the SWL limits on bores that were identified as being impacted by rainfall events.

Was this non-compliance previously reported to DWER?

☐ Reported to DWER verbally	Date: 24 / 06 / 2021 Meeting at DWER office
□ Reported to DWER in writing	Date: 29 / 06/ 2021

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)	Name: (printed)	
Position:	Position:	
Date:	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 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.