

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: | L6131/1990/13 | Licence file number: | DER2013/001337- |
| Licence holder name: | Pilbara Manganese Pty Ltd | | |
| Trading as: | ConsMin | | |
| ACN: | 074 106 577 | | |
| Registered business address: | L2/24 Outram Street, West Perth, WA 6005 | | |
| Reporting period: | 1/10/2022 to | 30/09/2023 | |

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.

| bo ditabilities. | | |
|---|--|--|
| Prescribed premises category | Actual production quantity | |
| 5 - Processing or beneficiation of metallic or non-metallic ore | 1,257,135 tonnes (t) (primary and secondary ore). Approved premise production or design capacity of 5,000,000 t per annum (tpa). | |
| 6 - Mine dewatering | 14,259,281 kL of mine dewatering. Approved premise production or design capacity of 55,1880,000 t per annum (tpa) | |
| 54 - Sewage Facility | 77,282 m3 (average 159.41 per day). Approved premise production or design capacity of 150 m³ per day. | |
| 73 - Bulk Storage of Chemicals | 2,106.59 kilolitre (kL) capacity. Approved premise production or design capacity of 2144 | |

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 | |
|--------------------------------|--|--|
| | m³ in aggregate. | |
| 89 - Putrescible landfill site | 570.5 t. Approved premise production or design capacity of 1,950 tpa | |

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 | |
|---|---|--|
| 5 - Processing or beneficiation of metallic or non-metallic ore | 593,133 dry tonnes (dT) of tailings discharge to Homestead in-pit TSF. Approved premise production or design capacity of 5,000,000 tpa. | |
| 6 – Mine Dewatering | 10,753,477 kL of mine dewatering discharged to the environment. Approved premise production or design capacity of 55,188,000 tpa. | |

Section E.1 – 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: Section 2.3 Emission Land, Table 2.3.1, 2.3 and 3.3.1 | Date(s) of non- | 5 Nov 2022 |
|---|-----------------|------------|
|---|-----------------|------------|

Details of non-compliance:

On 5 Nov 2022, during a routine inspection it was observed that a large amount of hydrocarbon liquid had been disposed of directly into the oily water separator inlet sump rather than the designated waste oil disposal Intermediate Bulk Container (IBC). A sample was taken that day from the L1 licensed discharge point to measure TRH levels. This subsequently returned a Total Recoverable Hydrocarbons (TRH) result of 16.2 (mg/L) – which is above the license limit of 15 mg/L.

This event was recorded with ConsMins internal incident management system, InControl as INX18124.

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.

Light Vehicles and Heavy Equipment are washed at the wash down bay. All water and sediment are directed into the adjacent sump which then passes through the oil water separator. Hydrocarbon contaminated material is discharged into a 1,000 L Intermediate Bulk Container (IBC) and treated wastewater discharged into the adjacent evaporation basin.

Section E.1 – Details of non-compliance with licence condition

At the time of sampling, the evaporation basin was also sampled, returning a TRH of 14.5 mg/L (below the 15mg/L threshold). The discharge of TRH concentrations above the licence limit at L1 may have been diluted within the larger evaporation basin.

The evaporation basin has been constructed from natural clay material. Clay at Woodie has been tested and found to be extremely non permeable $(1.0 \times 10^{-9} - 6.1 \times 10^{-11} \text{ m/s})$. As the hydrocarbon contaminated water is localised to the evaporation basin, and groundwater level sits 80m below the pond, PMPL do not consider this exceedance to have resulted in environmental impact.

Figure 1

DWER Form V1 Notification
Licence: Le13/1/1990/13

Pibara Manganesa Pty. Ltd.
0/108/2022

Map Prolystoss MAMM (Zore of t)

LECEND

LI Discharge - DWER Licence
Sampling Point
Sampling Point
Sampling Point
Ol Water Sparator System
Evaporation Blasin
Vehicle Washdown Bay

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Figure 2: Location of L1 discharge point for treated water from Oily Water Separator

Cause (or suspected cause) of non-compliance:

1. Large amount of hydrocarbon liquid disposed of directly into the oily water separator inlet sump rather than the designated waste oil Intermediate Bulk Container (IBC).

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

On 6 November 2022, a site wide notification was sent out to inform employees on the correct disposal method of hydrocarbons.

Educational presentations were presented to all work areas to inform and raise awareness on correct methods for hydrocarbon disposal.

Further maintenance and management actions included:

Section E.1 – Details of non-compliance with licence condition

- Clean out of solids hopper on 13 and 16 November. Scheduled fortnightly cleaning commenced on 10 December 2022.
- ConsMin received advice from Baldwin, OWS manufacture around replacing plate packs within OWS from 12mm to 6mm, increasing the surface area and increasing treatment capability of the tank.
- Adjustment of skimmer tubes to manufacturer specs
- Quarterly cleanout of outlet pipe and filter on 24 December 2022

L1 and Evaporation basin monitoring results:

| Was this non-compliance previously reported to DWER? | | | |
|--|------------------|--|--|
| ⊠ Yes, and | | | |
| ☐ Reported to DWER verbally | Date: / / | | |
| □ Reported to DWER in writing | Date: 15/11/2022 | | |
| | | | |
| | | | |

Section E.2 – 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: | Secrion 1.3 Premises Operation, table 1.3.4 and License condition 1.3.7 | Date(s) of non- compliance: | 20/09/2022 |
|---------------|---|--------------------------------|------------|
|---------------|---|--------------------------------|------------|

Details of non-compliance:

During monthly data review on the 1 November 2022, it was identified that emission point L2B and/or L2A (treated effluent wastewater) exceeded the daily discharge limit of 150 m3 per day on the 20th September 2022 with average daily discharge being 265 m3 per day.

This event was recorded with ConsMins internal incident management system, InControl as INX18003.

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.

To discern any associated impact on the environment samples were taken from RO plant and L2B on the 2 November 2022. These returned negligible results.

To discern any impacts on vegetation health a monitoring program was enacted on the 21 December 2021 (Appendix I). No discernible impacts were observed during the initial monitoring period. During the final round of vegetation health monitoring in June 2023 a slight improvement in vegetation condition was observed in the southwest and west areas monitored, and a deterioration of vegetation health was observed in the north and northeast areas monitored. This was likely a result of regulator application of hardwater to these areas. In response, the L2A spray field area was commissioned to spread the impact of the hardwater discharge.

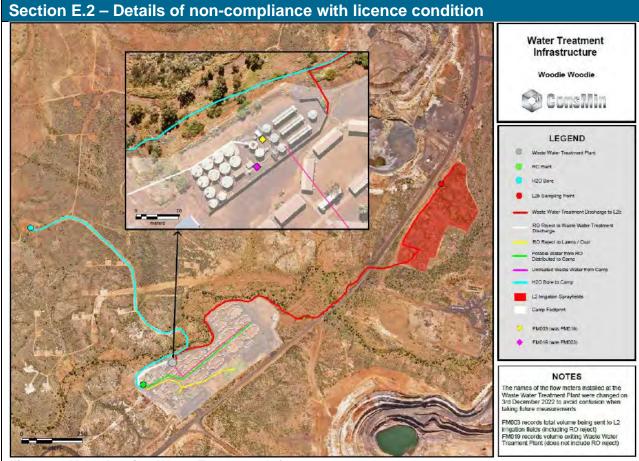


Figure 3: Map showing Water Treatment Infrastructure

Cause (or suspected cause) of non-compliance:

- 1. Intrusion of potable water from the outlet pipes of the Reverse Osmosis (RO) system into subsurface plumbing increasing the discharge through the outlet pipe of the WWTP. The unit was installed on the 20 September 2022.
- 2. Ruptures within effluent water pipeline allowing intrusion of potable water

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

Remediation work commenced on the 21 October 2022 and involved identifying and fixing the leaks in the potable water pipeline and the effluent water pipeline to stop potable water from contributing volume to the effluent water treatment system. This involved:

- 1. Purchasing equipment to identify leaks below the ground surface.
- 2. Replacing and repairing the damaged pipeline.

| Was this non-compliance previously reported to DWER? | | |
|--|-----------------|--|
| ⊠ Yes, and | | |
| ☐ Reported to DWER verbally | Date: / / | |
| □ Reported to DWER in writing | Date: 1/11/2022 | |
| | | |
| | | |

Section E.3 – 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: | N/A (S72 Reportable) | Date(s) of non- compliance: | 16/11/2022 |
|---------------|----------------------|--------------------------------|------------|
| Condition no. | TVA (O72 Reportable) | compliance: | 10/11/2022 |

Details of non-compliance:

On 16 November 2023, an inspection of the tailing pipeline identified a failure of the pipeline resulting in pooling within the pipeline corridor, filling the emergency pond. On 17 November a follow up inspection revealed that the rear section of the tailing's sump wall had failed resulting in tailings escaping from the top half of the sump resulting in tailings and rainwater flowing into the adjacent vegetation.

This event was recorded with ConsMins internal incident management system, InControl as INX18166.

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.

Environmental impact is considered to be negligible. Given the method of malfunction, coarse grains sediment was primarily encapsulated to the tailing's corridor and sumps. Tailing effluent was noted misted or sprayed of adjacent vegetation. Manganese processing is chemically benign, consisting primarily of crushing and screening.

Table 2: Total disturbance footprint within / outside tailings corridor.

| Disturbance Area | | |
|-----------------------------------|-------------------|--|
| Area of impact | Southeast of sump | |
| Aerea within corridor (recovered) | 0.33 ha | |
| Area outside of corridor | 0.74 ha | |
| Total area | 1.07 ha | |

From the start of the vegetation health monitoring program on the 17 November 2022 till the end of the program on the 17 February 2023 no significant decline in vegetation health was recorded in the area outside the tailings corridor (Appendix I)

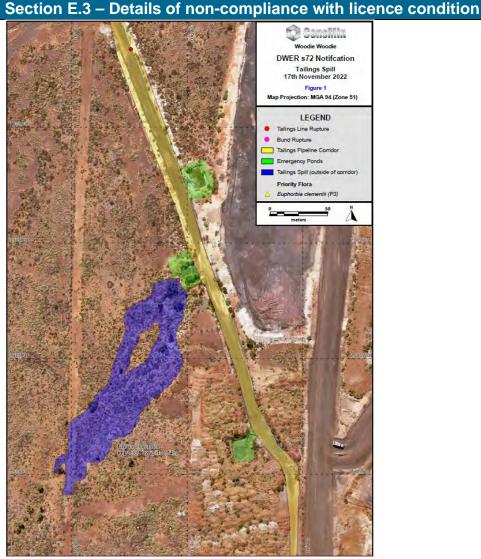


Figure 4: Aerial Imagery on 17th November 2022 of tailings spill disturbance footprint, tailings corridor and emergency sumps.

Cause (or suspected cause) of non-compliance:

- 1. Failure occurred at the base of the pipeline due to continued internal erosion by tailings sediment.
- 2. Approximately 20 hours of heavy rainfall were received between the 16 and 17 November pushed the emergency sump over its holding capacity.

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

Maintenance work commenced on 17 November 2022 and included:

- Replacing malfunctioned section of pipeline.
- Pumping out tailing's effluent from the emergency sump to the unused, bunded, Extension Cord ROM pad.
- Windrowed off sump to prevent further entry of rainfall/tailings into sump.
- Reinstatement of sump wall.
- Upgraded plant control system to include pressure change alarm between flow metres at either end of pipeline.

| Section E.3 – Details of non-compliance with licence condition | | |
|--|------------------|--|
| Additionally, effluent samples were taken for laboratory analysis and a weekly vegetation health monitoring program was enacted. | | |
| Was this non-compliance previously reported to DWER? | | |
| ∑ Yes, and | | |
| ☐ Reported to DWER verbally | Date: / / | |
| □ Reported to DWER in writing | Date: 17/11/2022 | |
| | | |

| Section E.4 – 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: | N/A (S72 Reportable) | Date(s) of non- compliance: | 11/01/2023 |
| Details of non-comp | pliance: | | |
| , | 3 the incorrect installation of Lover an area of 0.017 ha. | - | liesel spill of |
| This event was recorded with ConsMins internal incident management system, InControl as INX18608. | | | |
| 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. | | | |
| Environmental impact was characterised by the release of diesel onto surrounding land (including both disturbed areas and undisturbed native vegetation) and subsequent clearing of 0.005 ha. As groundwater is significantly below ground level in the vicinity of the spill (90.43mbgl at nearby licenced monitoring point WMMB14) there is no risk of contamination to groundwater. | | | |

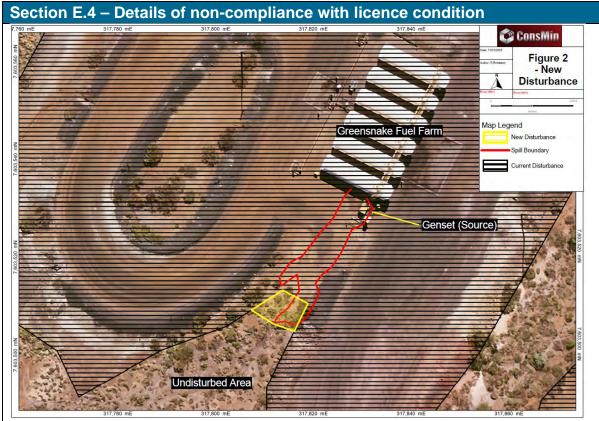


Figure 5: Diesel spill footprint and associated vegetation clearing required at the Greensnake Fuel Farm

Cause (or suspected cause) of non-compliance:

1. Incorrectly fitted fuel hose on the generators. This had the main fuel supply incorrectly plumbed to the genset tank rather than the fuel pump, leading to fuel gravity feeding out of the tank through the breathers.

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

Remedial works included:

- The area was bunded off to stop the further spread of diesel.
- Soaker pads and organic absorbents laid out on the impacted area.
- Contaminated soil was dug out to a depth of 0.3 m by using heavy mobile equipment (HME) and taken to the designated bioremediation area.
- The area was bunded off to stop further risk of diesel run off.

| Was this non-compliance previously reported to DWER? | | | | |
|--|------------------|--|--|--|
| | | | | |
| ☐ Reported to DWER verbally | Date: / / | | | |
| □ Reported to DWER in writing | Date: 11/01/2023 | | | |

Section E.5– 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: N/A (S72 Reportable) Date(s) of non-compliance: 1/02/2023

Details of non-compliance:

On Monday 1 February 2023 a blowout was observed on the western batter of Rhodes ROM. It was identified that run off that reach Brumby Creek which was visibly turbid.

This event was recorded with ConsMins internal incident management system, InControl as INX18941.

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.

Blow out from ROM into Brumby Creek resulting in approximately 0.35 ha of impacted vegetation through both smothering with associated visibly turbidity within Brumby Creek.

Samples were taken from Brumby Creek at the source of the sediment discharge and downstream at the licenced monitoring location Brumby Creek Monitoring Site (BMS) on 2nd February 2023. Results were provided to the department on 13th February 2023 which found a sulphate level of 71 mg/L.

A vegetation monitoring program was carried out to discern any downstream effects from the blowout. No significant changes were identified.

Section E.5- Details of non-compliance with licence condition **Rhodes RoM West** Figure 1: Impact Area Pilbara Manganese Pty Ltd L6131/1990/13 Author: kerryn.forster Date: 4/02/2023 ConsMin **LEGEND** Impact Area Previous disturbance Drainage **Rhodes RoM** NOTES Approximately 0.35 ha of land was impacted. No heritage sites within the impact No priority flora in the impact area Figure 6: Impacted area from Rhodes ROM blowout following significant rainfall event. Cause (or suspected cause) of non-compliance: 1. Blow out occurred due to significant rainfall across the region in the days prior. Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance: Management actions included: Construction of a windrow to prevent further runoff from pooling within the ROM Compaction of batters and further rock armouring of all sides of ROM to reduce erodibility of landforms and availability of sediment for run off. Vegetation program was enacted to discern any downstream impacts of blowout (Appendix I).

/ /

2/02/2023

Date:

Date:

Was this non-compliance previously reported to DWER?

☐ Reported to DWER verbally

Reported to DWER in writing

Yes, and

| Section E.6 – Details of non-compliance with licence condition | | | | | |
|---|--|--------------------------------|----------------------------|--|--|
| Section E.6 – 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: | Section 3.2 Monitoring of point source emissions to surface water, table 3.2.1 | Date(s) of non- compliance: | 12 September 2023 | | |
| Details of non-compliance: | | | | | |
| | t was identified that a enviror due to an undelivered esky. | nmental compliance wa | ater quality monitoring | | |
| This event was recorded with ConsMins internal incident management system, InControl as INX20843. | | | | | |
| What was the actua | al (or suspected) environmen | tal impact of the non-c | ompliance? | | |
| NOTE – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place. | | | | | |
| N/A | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Cause (or suspected | ed cause) of non-compliance: | | | | |
| _ | th Courier delivering water saids of holding time | amples to MPL Labora | tories for testing, caused | | |
| samples to be outsi | de of holding time. | | | | |
| | | | | | |
| | | | | | |
| Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the | | | | | |
| non-compliance: | | | | | |
| Management actions to prevent reoccurrence: | | | | | |
| Update environmental monitoring procedure to including saving of all documents associated with collection, courier, and receipt of samples. | | | | | |
| - Create group email address for receipt of all information relating to lab samples. | | | | | |
| | | | | | |
| | | | | | |
| Was this non-compliance previously reported to DWER? | | | | | |
| Yes, and | | | | | |
| ☐ Reported to | DWER verbally | Date: / / | | | |
| Reported to | DWER in writing | Date: / / | | | |

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: | Senior Environmental Advisor | Position: | Principal Environment |
| Date: | 20/11/2023 | Date: | 20/11/2023 |
| 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.