



## Annual Audit Compliance Report Form

*Environmental Protection Act 1986, Part V*

### Section A – Licence Details

|                     |  |                      |                |
|---------------------|--|----------------------|----------------|
| Licence number:     | L7851/2002/6   | Licence file number: | DER2013/000925 |
| Licence holder:     | BHP Billiton Iron Ore Pty Ltd  |                      |                |
| Trading as:         | BHP Billiton Iron Ore Pty Ltd  |                      |                |
| ACN:                | 008 700 981  |                      |                |
| Registered address: | Level 1, City Square Brookfield Place<br>125 St Georges Terrace<br>PERTH WA 6000 |                      |                |
| Reporting period:   | 01/07/2019 to 30/06/2020   |                      |                |

### 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.

☒ 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           |
|--|--------------------------------------|
| 5 – processing or beneficiation of metallic or nonmetallic ore | 60.34 Mt                             |
| 12 - screening   | 340,423 t                            |
| 54 – sewage facility   | 1,456 m <sup>3</sup> average per day |
| 63 – class 1 inert landfill site                               | 5,957 t                              |
| 73 – bulk storage of chemicals etc.                            | 7,515 m <sup>3</sup> in aggregate    |
| 89 – putrescible landfill site                                 | 290.36 t in the reporting period     |

### 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 |
|--------------------------------|--|
| 6 – Mine dewatering            | 11,482,346 t                           |
| 85B – Water desalination plant | 0.1824 GL                              |

| 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:  | 1.2.9(b) | Date(s) of non-compliance: | 30/07/2019 |
| Details of non-compliance:   |          |                            |            |
| During an inspection, two wall breaches were identified in the two ponds of the Packsaddle Waste Water Treatment plant, causing the freeboard to not be a vertical 300 mm limit as stated in the licence, with exception of a one in one-hundred year rain event.  |          |                            |            |
| What was the actual (or suspected) environmental impact of the non-compliance?   |          |                            |            |
| <p><b>NOTE</b> – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.</p> <p>No known actual or suspected adverse impact on the environment as the discharge is flowing into a licensed discharge pond that was made for the purpose of collecting treated effluent and allowing it to infiltrate into the ground.</p>  |          |                            |            |
|   |          |                            |            |
| Cause (or suspected cause) of non-compliance:  |          |                            |            |
| Two breaches in the final walls of the waste water treatment ponds caused discharge to occur into the final pond, causing the freeboard to not comply with the vertical limit as per the licence.  |          |                            |            |
| Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:   |          |                            |            |
| After an investigation, breaches in the overflow pond of the Packsaddle WWTP were identified as the root cause for the variance in the Freeboard during the FY2020 reporting period. BHP has identified the need to repair these breaches to allow the ponds to operate as designed and allow for the freeboard to be compliant with licence requirements. A project is currently underway to ensure the WWTP can be repaired and maintained to ensure compliance. |          |                            |            |
| Was this non-compliance previously reported to DWER?   |          |                            |            |
| Yes, and   |          |                            |            |
| <input type="checkbox"/> Reported to DWER verbally   |          | Date: / /                  |            |
| <input checked="" type="checkbox"/> Reported to DWER in writing  |          | Date: 30/07/2019           |            |

| 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:   | 1.2.11 | Date(s) of non-compliance: | 30/07/2019 |
| Details of non-compliance:  |        |                            |            |
| <p>During an inspection, two wall breaches were identified in the two ponds of the Packsaddle Waste Water Treatment plant, causing overtopping into the overflow pond.</p> <p>This overtopping also caused the freeboard to not be a vertical 300 mm limit as stated in the licence with exception of a one in one-hundred year rain event. Please see text above in Condition 1.2.9(b) for more information regarding this potential non-compliance.</p> |        |                            |            |
| What was the actual (or suspected) environmental impact of the non-compliance?  |        |                            |            |
| <p><b>NOTE</b> – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.</p>  |        |                            |            |
| Please see text above in Condition 1.2.9(b) for more information regarding this potential non-compliance.   |        |                            |            |
| Cause (or suspected cause) of non-compliance:   |        |                            |            |
| Please see text above in Condition 1.2.9(b) for more information regarding this potential non-compliance.   |        |                            |            |
| Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:  |        |                            |            |
| Please see text above in Condition 1.2.9(b) for more information regarding this potential non-compliance.   |        |                            |            |
| Was this non-compliance previously reported to DWER?  |        |                            |            |
| Yes, and  |        |                            |            |
| <input type="checkbox"/> Reported to DWER verbally  |        | Date:    /    /            |            |
| <input checked="" type="checkbox"/> Reported to DWER in writing   |        | Date: 30/07/2019           |            |

| 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:  | 1.2.16 | Date(s) of non-compliance: | 15/03/2020 |
| Details of non-compliance:   |        |                            |            |
| Compliance document for point L20 was not submitted within 7 days of completion.   |        |                            |            |
| What was the actual (or suspected) environmental impact of the non-compliance?   |        |                            |            |
| <b>NOTE</b> – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.              |        |                            |            |
| No known actual or suspected adverse impact on the environment.  |        |                            |            |
| Cause (or suspected cause) of non-compliance:  |        |                            |            |
| Misunderstanding of commitments and lack of communication between work groups.   |        |                            |            |
| Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:                                   |        |                            |            |
| We are reviewing all of our compliance reporting requirements and contacting relevant stakeholders to coach on obligations as per our licence. |        |                            |            |
| Was this non-compliance previously reported to DWER?   |        |                            |            |
| Yes, and   |        |                            |            |
| <input type="checkbox"/> Reported to DWER verbally   |        | Date:    /    /            |            |
| <input checked="" type="checkbox"/> Reported to DWER in writing  |        | Date: 19/08/2019           |            |

## 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: | 1.2.2 | Date(s) of non-compliance: | 29/09/2019; 29/11/2019 |
|---------------|-------|----------------------------|------------------------|

Details of non-compliance:

Approximately 500 t of putrescible waste including wooden pallets, cardboard, office furniture and general waste were disposed of at the Packsaddle Inert Landfill between September and November 2019. Small volumes of banded hydrocarbons were disposed of in the inert landfill, however they were removed immediately upon identification.

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.

No known actual or suspected environmental impacts based on weekly covering of waste to prevent fauna ingress.



Cause (or suspected cause) of non-compliance:

Misunderstanding of landfill management requirements by landfill users led to incorrect waste types being delivered to the inert landfill.

|   |                  |
|---|------------------|
| Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:  |                  |
| <p>DWER was notified immediately when the potential non-compliance became known. The material was covered in line with putrescible management practices as advised by DWER. All hydrocarbons were recovered, disposed of correctly and no spills were identified. An amendment to L7851/2002/6 was also sought to reclassify the inert landfill to a putrescible landfill. A project has been initiated to install fencing, CCTV and boom gates to prevent incorrect waste disposal and control access to the landfill. It is expected that these upgrades will be completed in FY2021.</p> |                  |
| Was this non-compliance previously reported to DWER?  |                  |
| Yes, and  |                  |
| <input type="checkbox"/> Reported to DWER verbally  | Date:    /    /  |
| <input checked="" type="checkbox"/> Reported to DWER in writing   | Date: 04/12/2019 |

| 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:  | 1.2.2 | Date(s) of non-compliance: | Over the reporting period |
| Details of non-compliance:   |       |                            |                           |
| The daily average limit (annualized) for the acceptance of sewage into sewage treatment plants exceeded the 1,100 m <sup>3</sup> capacity by 356 m <sup>3</sup> per day as prescribed in category 54 of the Licence.   |       |                            |                           |
| What was the actual (or suspected) environmental impact of the non-compliance?   |       |                            |                           |
| <b>NOTE</b> – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.  |       |                            |                           |
| No known actual or suspected environmental impacts were observed based on quarterly monitoring of nutrient content and no overtopping of the WWTP ponds.   |       |                            |                           |
| Cause (or suspected cause) of non-compliance:  |       |                            |                           |
| Increased personnel using facilities due to South Flank construction works.  |       |                            |                           |
| Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:   |       |                            |                           |
| After an investigation, BHP has identified the need to upgrade the Packsaddle WWTP as design does not consider the increased capacity of South Flank construction. A project is currently underway to ensure the WWTP can be repaired and maintained to ensure compliance. |       |                            |                           |
| Was this non-compliance previously reported to DWER?   |       |                            |                           |
| No   |       |                            |                           |
| <input type="checkbox"/> Reported to DWER verbally   |       | Date:    /    /            |                           |
| <input type="checkbox"/> Reported to DWER in writing   |       | 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.  |       |                            |            |
| Condition no:   | 2.3.2 | Date(s) of non-compliance: | 30/06/2020 |
| Details of non-compliance:  |       |                            |            |
| Three oily water separators (OWS) were constructed at E-Deposit, Powerstation and OHP. The facilities were not added to the licence and have discharged to the environment. The infrastructure and discharges were observed during an internal audit routine and were installed several years ago.  |       |                            |            |
| What was the actual (or suspected) environmental impact of the non-compliance?  |       |                            |            |
| <b>NOTE</b> – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.   |       |                            |            |
| There was no known actual or suspected environmental impact as a result of operating the OWS units. Soil samples have been collected and an investigation is ongoing.   |       |                            |            |
| Cause (or suspected cause) of non-compliance:   |       |                            |            |
| Advice received from an Application Enquiry Form (AEF) in 2014 suggested that a works approval was not required for the construction of new oily waste water treatment plants, the facilities were required however to be added to the License prior to operating them. It is believed that this advice was applied to the construction of further treatment plants without consultation with the Department. |       |                            |            |
| Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:  |       |                            |            |
| Discharge from these treatment plants was ceased immediately. An amendment to the licence was submitted which would remove individually listed treatment plants, and allow treated waste water to be discharged provided water quality remained within the required parameters.   |       |                            |            |
| Was this non-compliance previously reported to DWER?  |       |                            |            |
| No  |       |                            |            |
| <input type="checkbox"/> Reported to DWER verbally  |       | Date:    /    /            |            |
| <input type="checkbox"/> Reported to DWER in writing  |       | 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.

|               |    |                            |                       |
|---------------|----|----------------------------|-----------------------|
| Condition no: | 17 | Date(s) of non-compliance: | July 2019 – June 2020 |
|---------------|----|----------------------------|-----------------------|

Details of non-compliance:

Emission Point references were not monitored for parameters and frequency as indicated below:

| Emission point reference | Parameter         | Frequency | Missed Period |
|--------------------------|-------------------|-----------|---------------|
| L8                       | Hydrochemistry    | Quarterly | Q1            |
| L9                       | Hydrochemistry    |           | Q1 & Q3       |
| L10                      | Hydrochemistry    |           | Q1 & Q2       |
| L11                      | Hydrochemistry    |           | Q1 & Q2       |
| L8, L9, L10 & L11        | Calcium carbonate |           | Q1, Q2 & Q3   |
| L16                      | Hydrochemistry    |           | Q1            |
| L4                       | TRH               |           | Q1, Q2 & Q3   |
| L20                      | Hydrochemistry    |           | Q4            |

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.

There was no known actual or suspected environmental impact as a result of the missed sampling events based on the results taken from the representative locations.

Cause (or suspected cause) of non-compliance:

**L8 Hydrochemistry**

A scheduling error meant that no water was being discharged from the L8 emission point at the time of sampling, however a representative sample was taken from the E-Deposit Turkey's Nest which directly supplies the ponds with water to be discharged to L8 (see Table 2-60 of the FY2020 L7851/2002/6 AER Compliance Report). The hydrochemistry of this water does not change between the location of the representative sample and the emission point.

**L9 Hydrochemistry**

A scheduling error meant that no water was being discharged from the L9 emission point at the time of Q1 and Q3 sample collection, however a representative sample was taken from the E-Deposit Turkey's Nest which directly supplies the ponds with discharge water (see Table 2-60 of the FY2020 L7851/2002/6 AER Compliance Report). The hydrochemistry of this water does not change between the location of the representative sample and the emission point, and is representative of the water discharged during Q1.

As all three infiltration ponds are supplied by the same source (E-deposit Turkey's Nest), samples taken from L8 and L10 emission points are representative of water discharged from L9. A Q3 sample was not able to be collected from L9 due to a small discharge window, however an average water quality has been determined from the Q3 L8 and L10 samples.

**L10 Hydrochemistry**

A scheduling error meant that no water was being discharged from the L10 emission point at the time of Q1 and Q2 sample collection, however a representative sample was taken from the E-Deposit Turkey's Nest which directly supplies the ponds with discharge water (see Table 2-60 of the FY2020 L7851/2002/6 AER Compliance Report). The hydrochemistry of this water does not change between the location of the representative sample and the emission point, and is representative of the water discharged during Q1 and Q2.

**L11 Hydrochemistry**

A scheduling error meant that no water was being discharged from the L11 emission point at the time of Q1 and Q2 sample collection, however a representative sample was taken from the E-Deposit Turkey's Nest which directly supplies the ponds with discharge water (see Table 2-60 of the FY2020 L7851/2002/6 AER Compliance Report). The hydrochemistry of this water does not

change between the location of the representative sample and the emission point, and is representative of the water discharged during Q1 and Q2.

#### **L8, L9, L10, & L11 Calcium Carbonate**

The calcium carbonate parameter was not tested for historically (Including Q1-Q3 FY2020), however this oversight has been corrected for FY2020 Q4, and will be tested for all future monitoring frequencies.

#### **L16 Hydrochemistry**

During FY2020 Q1, maintenance and upgrade works on the discharge infrastructure at L16 resulted in a disruption of the monitoring schedule.

Water was discharged from L16 during this time. As a result of the infrastructure works a sample was not collected in time. A sample was collected from the A-deposit Turkey's nest, which directly supplies the water to L16 (see Table 2-60 of the FY2020 L7851/2002/6 AER Compliance Report). The hydrochemistry of this water does not change between the location of the representative sample and the emission point, and is representative of the water discharged during Q1 and Q2.

#### **L4 TRH**

The intermittent nature of the L4 discharge routinely prevented collecting a sample at the time of discharge. For this reason, representative samples have been taken from the treated waste water pond, which is directly representative of the L4 discharge.

#### **L20 Hydrochemistry**

A scheduling error meant that no water was being discharged from the L20 emission point at the time of Q1 and Q2 sample collection, however a representative sample was taken from the E-Deposit Turkey's Nest which directly supplies the ponds with discharge water (see Table 2-60 of the FY2020 L7851/2002/6 AER Compliance Report). The hydrochemistry of this water does not change between the location of the representative sample and the emission point, and is representative of the water discharged during Q1 and Q2.

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

#### **L8 Hydrochemistry**

A pending amendment to L7851/2002/6 is currently seeking to remove the duplication in water quality analysis and move the monitoring requirement to the common source of water. This will alleviate the challenges of timing sample collection with the discharge periods for L8, L9 and L10.

#### **L9 Hydrochemistry**

A pending amendment to L7851/2002/6 is currently seeking to remove the duplication in water quality analysis and move the monitoring requirement to the common source of water. This will remove the challenges of timing sample collection with the discharge periods.

#### **L10 Hydrochemistry**

A pending amendment to L7851/2002/6 is currently seeking to remove the duplication in water quality analysis and move the monitoring requirement to the common source of water. This will remove the challenges of timing sample collection with the discharge periods.

#### **L11 Hydrochemistry**

The L11 emission point has been decommissioned to allow construction of an OSA. The emission point is replaced by L20.

#### **L8, L9 & L10 Calcium Carbonate**

The scheduled monitoring program has been amended to include Calcium Carbonate for all future runs.

#### **L16 Hydrochemistry**

A pending amendment to L7851/2002/6 is currently seeking to simplify water monitoring requirements for the Central and Western Sediment Basins. The intermittent nature of these discharges makes scheduling and sample administration difficult, and the current monitoring requirement is duplication. Relocating the monitoring location to the nearest common source upstream of the emission point will ensure all requirements of the conditions of the licence can be met.

#### **L4 TRH**

The proposed amendment to L7851/2002/6 will remove prescriptive details on where the sample for L4 needs to be collected from, and allow representative samples to be collected to manage discharge water quality. Water collected from the treated waste water turkeys nest is the same water being discharged from L4, and will always be available to sample.

#### **L20 Hydrochemistry**

A pending amendment to L7851/2002/6 is seeking to simplify water monitoring requirements for the Central and Western Sediment Basins. The dynamic nature of these discharges makes scheduling and sample administration difficult, and the current monitoring requirement is unnecessary duplication. Relocating the monitoring location to the nearest common source upstream of the emission point will ensure all compliance requirements can be met.

Was this non-compliance previously reported to DWER?

No

☐ Reported to DWER verbally

Date: / /

☐ Reported to DWER in writing

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.

|               |       |                            |        |
|---------------|-------|----------------------------|--------|
| Condition no: | 3.5.2 | Date(s) of non-compliance: | FY2020 |
|---------------|-------|----------------------------|--------|

Details of non-compliance:

Amendment Notice 3 of Environmental Licence L7851/2002/6 removed the A Deposit MAR scheme as the facility had been decommissioned. However, an administrative error resulted in Tables 2.3.1, 2.3.2 and 3.3.1 still containing references these bores (HGA0001P, HGA0002P, HGA0040P and HGA0041P) and Tables 3.5.2 and 3.5.3 containing references to the associated monitoring bores GAOB07RM, HGA0003P and HGA0066M. GAOB05RM was destroyed during mine construction, and was removed from the Licence in November 2019.

BHP is reporting missed analysis as technical non-compliances for Q2, Q3 and Q4.

| Emission point reference | Parameter       | Frequency | Missed Period   |
|--------------------------|-----------------|-----------|-----------------|
| GAOB07RM                 | Hydrochemistry* | Quarterly | Q2, Q3, & Q4    |
| HGA0003P                 |                 |           | Q2              |
| HGA0066M                 |                 |           | Q2              |
| GAOB05RM                 | GW              | Monthly   | July - November |

\* pH, electrical conductivity, aluminium, arsenic, barium, boron, calcium carbonate, cadmium, calcium, chloride, chromium, copper, fluoride, iron, magnesium, manganese, mercury, molybdenum, nickel, nitrate as NO<sub>3</sub><sup>-</sup>, potassium, selenium, sodium, sulphate as SO<sub>4</sub><sup>-</sup>, total dissolved solids & zinc.



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.

There was no known actual or suspected environmental impact as a result of the missed samples as the A Deposit MAR is decommissioned

Cause (or suspected cause) of non-compliance:

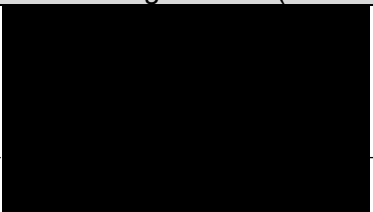
Amendment Notice 3 of Environmental Licence L7851/2002/6 removed the A Deposit MAR scheme as the facility had been decommissioned. However, an administrative error resulted in Tables 2.3.1, 2.3.2 and 3.3.1 still containing references these bores (HGA0001P, HGA0002P, HGA0040P and HGA0041P) and Tables 3.5.2 and 3.5.3 containing references to the associated monitoring bores GAOB07RM, HGA0003P and HGA0066M.

|  |                 |
|--|-----------------|
| Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance: |                 |
| A request to update the tables correctly was included in the May 2020 L7851/2002/6 amendment.                |                 |
| Was this non-compliance previously reported to DWER?   |                 |
| No   |                 |
| <input type="checkbox"/> Reported to DWER verbally   | Date:    /    / |
| <input type="checkbox"/> 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 particular<sup>1</sup>.

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

|                               |   |                 |  |
|-------------------------------|---|-----------------|--|
| Signature <sup>2</sup> :      |  | Signature:      |  |
| Name: (printed)               |   | Name: (printed) |  |
| Position:                     | Acting Asset President<br>Western Australian Iron<br>Ore (WAIIO)                  | Position:       |  |
| Date:                         | 02/09/2020  | Date:           |  |
| Seal (if signing under seal): |   |                 |  |

<sup>1</sup> 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.

<sup>2</sup> 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.