



## **EXTENSION HILL HEMATITE OPERATION**

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# **ANNUAL COMPLIANCE REPORT**

## **Extension Hill Hematite Haulage Road & Rail Siding**

### **2014 – 2015**



**Document Title:** Annual Compliance Report – Extension Hill Hematite Haulage Road & Rail Siding 2014 – 2015

**Revision Date:** 13<sup>th</sup> April 2015

**Approved for Issue:** Jim Beyer  
*Chief Executive Officer*  
*Mount Gibson Mining Limited*

**Signed:**



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## 1. INTRODUCTION

### 1.1 Intent

Ministerial Statement 786 ('MS786') requires an Annual Compliance Report to be submitted to the CEO of the Office of the Environmental Protection Authority ('OEPA') for the Extension Hill Hematite Haulage Road and Rail Siding Project (the 'Project'). This report is intended to meet conditions 4-1 to 4-3 of MS786 and describes the activities undertaken by Mount Gibson Mining Limited ('MGM'), and compliance with MS786 for the period 19<sup>th</sup> February 2014 to 18<sup>th</sup> February 2015.

### 1.2 Project Overview

The Project consists of the construction and operation of a rail siding facility, located approximately 2km south of Perenjori in Western Australia, and the upgrade of approximately 85km of public roads linking the rail siding to the Extension Hill Hematite Operation (the 'mine site') (Figure 1). The rail siding is located within the Shire of Perenjori, however the eastern end of the upgraded road crosses into the Shire of Yalgoo. This Project facilitates the transport of hematite ore from the mine site to the Geraldton Port.

The Project was assessed under Part IV of the *Environmental Protection Act 1986* at an Assessment on Referral Information level and was approved by the Minister for the Environment with the issuing of MS786 on the 19<sup>th</sup> of February 2009. Two minor amendments to the Project have been subsequently approved under section 45c of the *Environmental Protection Act* on the 14<sup>th</sup> of February 2012 and the 10<sup>th</sup> of March 2014.

The mine site was approved under a separate Ministerial Statement and is not addressed in this report.

The Perenjori-Rothsay, Wanarra and Wanarra East Roads were upgraded from primarily single lane, unsealed roadways to sealed, two-way roads designed to meet the safety standards required by Main Roads WA for a maximum speed limit of 110km/hr.

The rail siding consists of two open stockpile areas with a third area designated for an overflow stockpile (if required) and ancillary facilities such as offices, a lunchroom and toilets, and truck maintenance, washdown and refueling facilities.

The total approved development area for the project is not more than 550ha, including up to 161ha of native vegetation clearing.

### 1.3 Environmental Reporting Requirements

The following environmental reporting requirements will be met throughout the implementation of the Project:

- Approval conditions applied by the Minister for the Environment under MS786;
- Requirements of Groundwater Licence 166651, issued by the Department of Water;
- Department of Mines and Petroleum tenement conditions associated with General Purpose Lease G70/232 and G70/238; and
- Any other legislative reporting requirements, as advised by the relevant Departments.

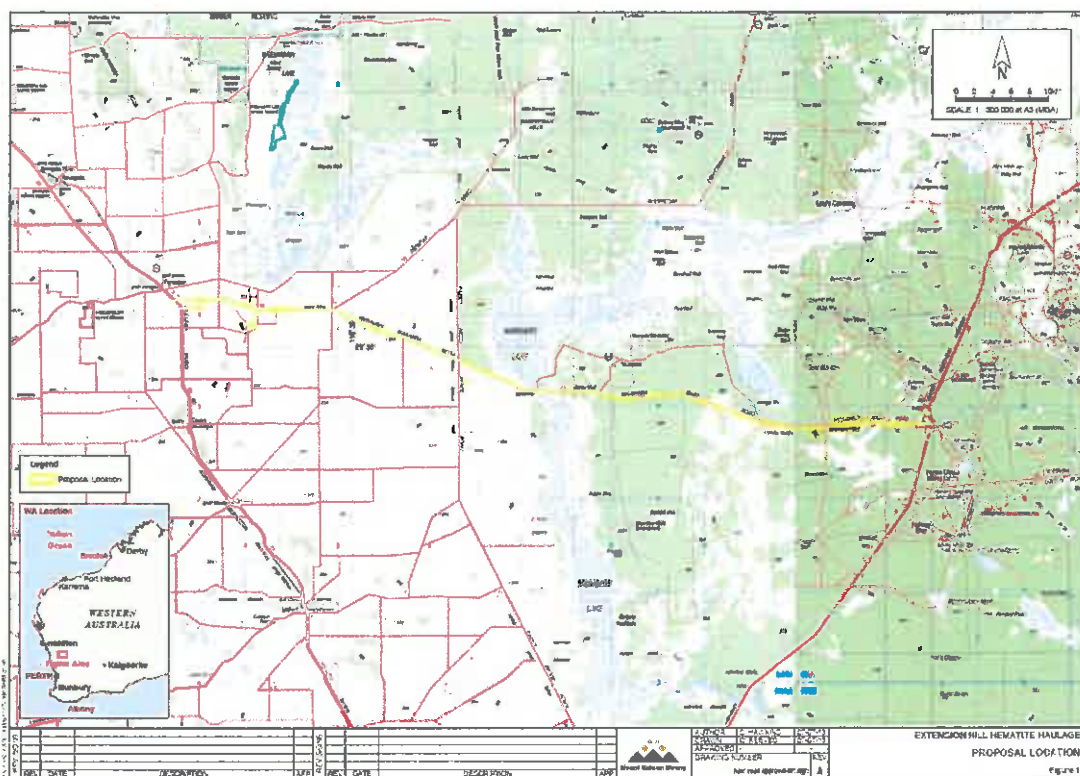


Figure 1 Project Location

## 2. CURRENT STATUS

The Project is currently in the operational phase. The road upgrade was completed and the road re-opened to the public on the 14<sup>th</sup> of February 2011. Train loading at the rail siding commenced on the 4<sup>th</sup> of December 2011.

Road haulage of hematite ore into the rail siding occurred continuously throughout the period, with the exception of a brief shut down over Christmas and during the 'Blues for the Bush' community event. Approximately 3.6Mt of ore was trucked to the rail siding during this reporting period.

The rail siding operates 24 hours a day, 7 days a week. There were generally two to three trains loaded daily, resulting in approximately 3.5Mt of ore being railed out of this facility during the reporting period.

No vegetation clearing activities were undertaken during this period, nor are any anticipated for future periods.

There were no community complaints received during this reporting period.

### 3. COMPLIANCE

#### 3.1 Ministerial Statement 786

MS786 imposes a number of conditions upon the proponent in undertaking the Project. These conditions and an assessment of MGM's compliance status for each condition, as defined in *Post Assessment Guideline for Preparing an Audit Table* (OEPA 2012), are listed in the approved Project audit table (Appendix A).

The conditions relating to the time limit of authorisation have been completed since the Project is operational and the appropriate notifications were made in a previous period. MGM are compliant with all other conditions that were required during this reporting period. The evidence to support this status is contained within this Annual Compliance Report.

Table 1 contains further details of compliance with item 786:M1.1 of Appendix A, which states that *'The proponent shall implement the proposal as assessed by the Environmental Protection Authority and described in schedule 1 of this statement subject to the conditions and procedures of this statement'*.

**Table 1 Summary of Key Proposal Characteristics Compliance**

Element	Description	Compliance during this reporting period
Vegetation Clearing	Clearing by purpose: <i>Road</i> : Not more than 79 hectares <i>Borrow pits</i> : Not more than 80 hectares <i>Rail sidings</i> : Not more than 2 hectares – crossing at Mullewa Wubin Road only	Compliant No additional native vegetation clearing was conducted during this period.

There were no non-compliances identified during the reporting period.

#### 3.2 Proponent Commitments

MGM made a number of commitments, as described in the *Extension Hill Hematite Haulage Assessment on Referral Information* (GHD 2008) and subsequent correspondence with the EPA. These proponent commitments and their status (as defined in the *Post Assessment Guideline for Preparing an Audit Table* (OEPA 2012)) for the reporting period are summarised in Appendix B.

All commitments relating to the design and construction phases of the Project have been removed as they are no longer relevant. All remaining proponent commitments were considered either compliant or not required at this stage. Evidence to support these claims is contained within this document and/or identified in Appendix B.

There were no non conformances identified.

#### 3.3 Internal Audits

An annual internal audit was conducted against the conditions of MS786. This is included as Appendix A and discussed in Section 3.1. No additional internal audits were conducted during the reporting period.

#### 3.4 External Audits

The OEPA conducted a desktop audit of MS786 in August 2014 and did not report any non compliances with the conditions of this approval.

### 3.5 Incidents

There were three environmental incidents recorded during this period (Table 2). Two were hydrocarbon spills, both of which were cleaned up, with contaminated material disposed of at appropriate facilities. These corrective actions were effective in containing and removing any potential pollution.

The third environmental incident involved the removal of a native animal from the site. An emu was captured and removed from the site by an unlicensed person who was employed at that time by a site contractor. The incident was investigated and reported to the Department of Parks and Wildlife. The site procedures for fauna reporting and restrictions on fauna handling were re-iterated site wide through pre-shift information messages. These corrective actions appear to have been effective as there have been no similar incidents.

**Table 2 Environmental Incidents Summary**

Incident Date	Incident Description	Corrective Actions
7/04/2014	Hydraulic oil leaking from wheel loader.	Drip trays were placed to contain leaking oil. The machine was repaired and has subsequently been replaced. The contaminated material was removed to an offsite disposal facility.
14/05/2014	Approximately 5L of engine oil spilled from damaged crank shaft seal on water cart.	The spill was cleaned up and the contaminated material was taken to the mine site bioremediation pad.
7/09/2014	Unauthorised/unlicensed removal of native fauna from the site by a contractor.	Re-iterated the procedure for fauna reporting in site-wide pre-shift information messages and reported the incident to the Department of Parks and Wildlife.



## 4. ENVIRONMENTAL MONITORING

### 4.1 Groundwater Monitoring

Groundwater is abstracted from SOL4P bore (located on private, agricultural property) and is utilised for dust suppression at the rail siding facility. This bore is licenced by the Department of Water under groundwater licence 166651(2). The rail siding water supply is supplemented with water purchased from local suppliers of both potable and additional groundwater resources. The purchased groundwater is added to the site turkey's nest dam to be used for dust suppression, whilst the potable water is stored in a designated tank and reticulated throughout the site for potable purposes, including drinking and toilets.

A total of 17,416kL was abstracted from the SOL4P groundwater bore during this reporting period. The standing water level (24hr rested) in SOL4P bore water was 1.5m lower at the end of the reporting period. There was net variation of 21m over the period (Figure 2). The maximum water pumping level recorded during the period was 76m below the top of the casing which is similar to the previous period (74.7m) and reasonably consistent with the estimated long-term water pumping level of 70m depth (Rockwater 2008).

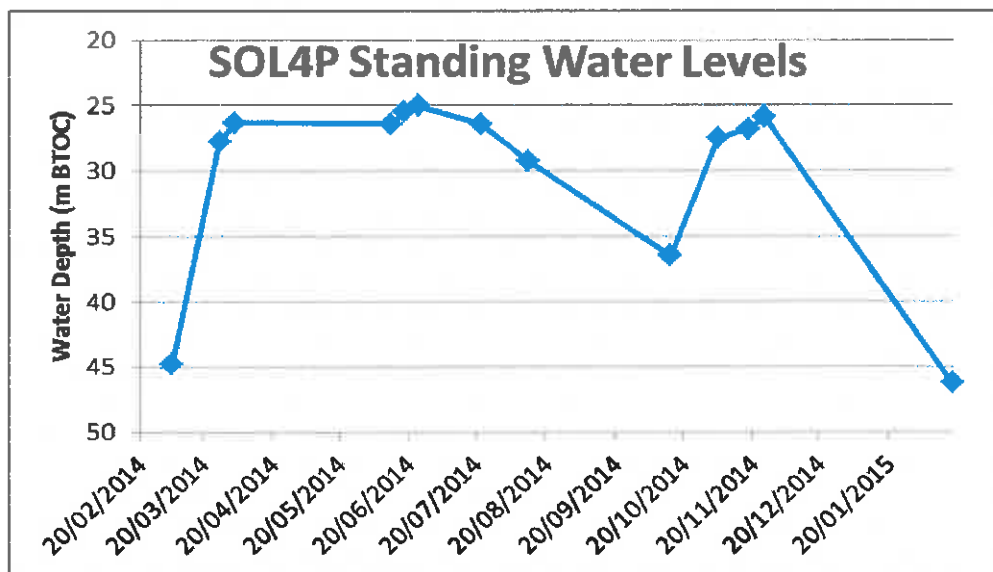


Figure 2 SOL4P Standing Water Levels

Groundwater samples are taken biannually in March and September to monitor the pH, electrical conductivity and total dissolved solids. During this period, this analysis was conducted by an off site, NATA accredited laboratory. In previous periods, these characteristics were measured on site using an Aquaread Aquaprobe. All characteristics were within the range expected, based on previous data (Table 3).

Table 3 Groundwater Quality Analysis (SOL4P bore)

Date	pH	Electrical Conductivity (mS/cm)	Total Dissolved Solids (g/L)
23/09/2010	7.2	2.932	1.907
18/11/2010	7.81	3.295	2.148
08/09/2011	7.52	7.286	4.73
06/10/2011	7.47	4.987	3.24
26/03/2012	7.52	3.737	2.434
10/09/2012	7.79	4.312	2.825

Date	pH	Electrical Conductivity (mS/cm)	Total Dissolved Solids (g/L)
22/03/2013	7.39	4.669	3.034
20/09/2013	6.82	6.504	4.226
26/03/2014	7.0	5.500	3.300
19/09/2014	7.2	6.500	3.900

## 4.2 Vegetation Monitoring

### Monitoring for impacts of saline water sprays

Monitoring for impacts of saline water spray for the road construction was completed in May 2011. No impacts were detected.

There is no salt sensitive, native vegetation sufficiently close to the rail siding operation to be considered to be at risk of saline spray drift impacts.

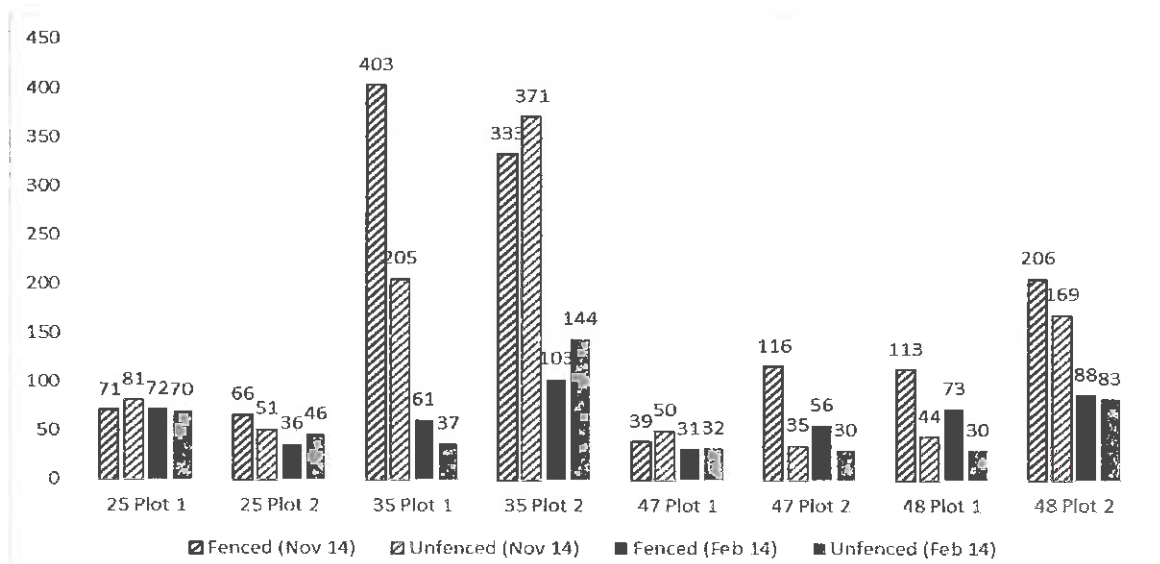
### Monitoring for impacts of groundwater drawdown

Groundwater drawdown from SOL4P bore is not expected to impact on native vegetation as it is located in an agricultural paddock greater than 200m from the nearest community of potentially groundwater dependent native vegetation.

### Borrow pit rehabilitation monitoring

An external consultant conducted borrow pit rehabilitation monitoring from the 25<sup>th</sup> November – 1<sup>st</sup> December 2014. Five borrow pits along the upgraded haul road were included in the program. The four borrow pits established in the original monitoring program include both fenced and unfenced, 5m by 5m plots, each with a replicate. The fifth borrow pit contains an unfenced plot and a replicate. Analogue sites were established (with replicates) in the surrounding vegetation for each borrow pit. The total stem count and species count was recorded in each plot.

The total stem count records for this monitoring period (which is supported by the February 2014 data set previously reported) indicate that fencing has a limited impact on rehabilitation success in this instance (Figure 3). Five of the monitoring plots showed higher stem counts in the fenced plot, however the remaining three had higher stem counts in the unfenced plots.



**Figure 3 Comparison of Fenced and Unfenced Rehabilitation Monitoring Plots (Wiseman 2015)**

The number of species present in each plot was higher in the fenced plots in six of the eight plots in November, however there was minimal variation (Table 4). The analogue sites generally had notably lower species counts and stem counts than the borrow pits which is expected as the borrow pit communities are likely to be undergoing ecological succession of a number of different species and communities (Wiseman 2015). In most cases, the species that were present in the fenced borrow pit plot but not the unfenced plot were also not present in the associated analogue plots. There were only 4 species that were represented in both the fenced borrow pit plot and the associated analogue plot but not the unfenced plot. There were also three occasions where a species was present in the unfenced borrow pit plot and the associated analogue plot, but not the fenced plot.

All species recorded were considered to be 'reflective of vegetation communities mapped during previous flora and vegetation surveys' (Wiseman 2015).

**Table 4 Rehabilitation Monitoring Plot Data**

Borrow Pit	Plot	No. of Species Present		
		BP Fenced	BP Unfenced	Analogue
BP35	Plot 1	14	11	13
	Plot 2	14	15	6
BP48	Plot 1	21	15	9
	Plot 2	16	20	4
BP47	Plot 1	10	8	6
	Plot 2	9	8	7
BP25	Plot 1	8	7	3
	Plot 2	11	10	3
BP27B	Plot 1		11	8
	Plot 2		14	3

No weeds were identified within the monitoring plots (K. Wiseman 2015).

### 4.3 Fauna Monitoring

#### Malleefowl Sightings

The Project is partially located within the known habitat of *Leipoa ocellata* (malleefowl), which is listed as a Schedule 1 species under the *Wildlife Conservation Act 1950*. All site personnel are trained to recognise and instructed to report any sightings of malleefowl within the Project and surrounding area. There were 10 sightings recorded along the haul road between the mine site and the rail siding during this reporting period. This is one more than was reported during the previous period.

#### Fauna Mortalities on Roads

Once a week, the number of visible carcasses along the haulage route from the mine site to the rail siding are recorded. As this is a publicly gazetted road not all deaths recorded can be unequivocally attributed to Project related traffic.

The total number of fauna mortalities recorded during this reporting period is similar to the last period (275 compared to 241 reported in the previous period), however the proportions of avifauna and mammals recorded varied considerably due to a reduction in the number of kangaroos (*Macropus rufus*, *Macropus fuliginosus* and *Macropus robustus*) and a significant increase in the number of galahs (*Cacatua roseicapilla*). There were 133 were mammals (including 118 kangaroos), 120 birds (including 96 galahs) and 22 reptiles (including 18 goannas (*Varanus sp.*)) recorded this period (Figure 4).

Nine of these records were introduced species. Of these 8 were cats (*Felis catus*), increased from 3 in the previous period and 1 was a European red fox (*Vulpes vulpes*), decreased from 10 in the previous period.

Also included in the total are 3 malleefowl and a major mitchell’s cockatoo (*Cacatua leadbeateri*). These species are both afforded special protection under the *Wildlife Conservation Act 1950* and these deaths were investigated and reported to the Department of Parks and Wildlife. The cockatoo was confirmed to be a Project related death caused by a road train. The malleefowl deaths occurred on separate occasions and were concluded to be non Project related. Conservation officers from the Department of Parks and Wildlife collected one malleefowl carcass and the cockatoo carcass.

There are distinct seasonal trends evident in the data (Figure 4). Herpetofauna mortalities are reduced during autumn and winter, when these species are less active. There is an increase in avifauna (particularly granivore) mortalities in late spring which may be attributable to grain availability on or beside the road in the agricultural area during this time.

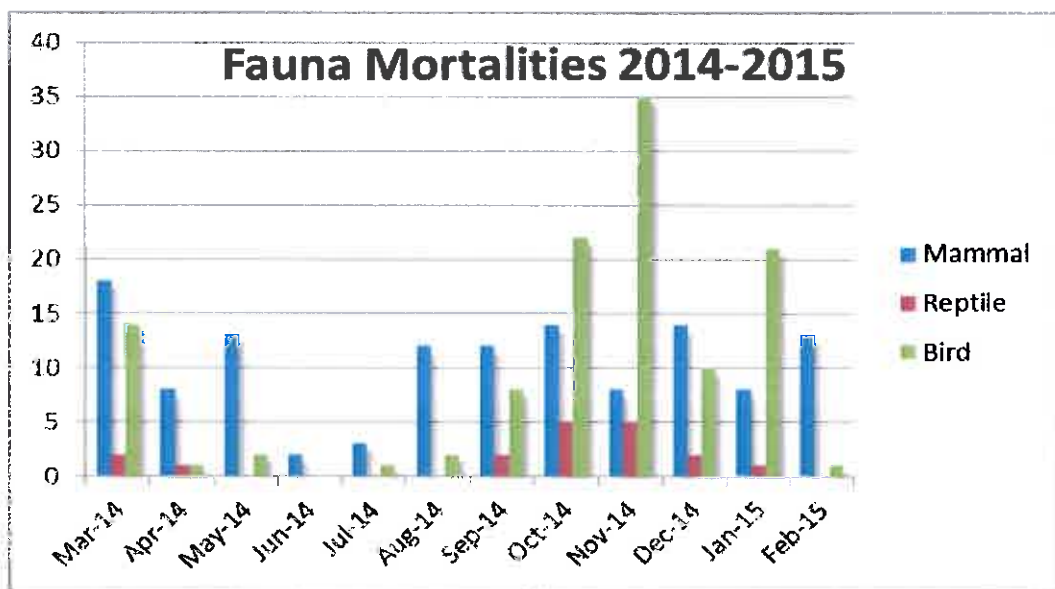


Figure 4 Fauna Mortalities by Classification

To minimise fauna mortalities on the road, site inductions include instructions to personnel to maintain speed limits and adjust their driving to suit road and weather conditions. The mine site environmental personnel are trained in wildlife first aid to enable a rapid response in the event of injured fauna. Electronic “Shu roo” devices have been installed on 7 road trains to date, however 3 of these units have been damaged by impacts with fauna.

## 5. REFERENCES

GHD (2008), *Extension Hill Hematite Haulage Assessment on Referral Information*, Published report for Mount Gibson Mining Limited, Perth.

OEPA (2012), *Post Assessment Guideline for Preparing an Audit Table*, Post Assessment Guideline No. 3, Office of the Environmental Protection Authority, August 2012.

Rockwater (2008), *Results of Drilling at the Salmons Area, Perenjori – Groundwater Supply Bore Completion Report*, Unpublished report for Mt Gibson Mining Limited.

Wiseman, K (2015), *Wanarra Road Borrow Pit Rehabilitation Monitoring*, Unpublished report for Mount Gibson Mining Limited.

# **APPENDIX A**

## **Ministerial Statement 786 Audit Table**



Office of the Environmental Protection Authority

**AUDIT TABLE**  
**STATEMENT COMPLIANCE SECTION**  
**PROJECT: EXTENSION HILL HEMATTE HAULAGE**  
**ROAD & RAIL SIDING**  
**SHIRES OF PERENJORI & YALGOO**  
 Updated 14 January 2013

- Note:**
- Phases that apply in this table = Pre-Construction, Construction, Operation, Decommissioning, Overall (several phases).
  - This audit table is a summary and timetable of conditions and commitments applying to this project. Refer to the Minister's Statement for full detail/precise wording of individual elements.
  - Any elements with status = "Audited by proponent only" are legally binding but are not required to be addressed specifically in compliance reports, if complied with.
  - Code prefixes: M = Minister's condition, P = Proponent's commitment, A = Audit specification, N = Procedure.
  - Compliance Status: C = Compliant, CLD = Completed, NA = Not Audited, NC = Non-compliant, NR = Not Required at this stage. Please note the terms VR = Verification Required and IP = In Process are only for OEPA use.
  - Acronyms list: BFB = Bush Fires Board (now Fire and Emergency Services Authority of Western Australia), CALM = Department of Conservation and Land Management (now DEC), CEO = Chief Executive Officer of OEPA, DEC = Department of Environment and Conservation, DIA = Department of Indigenous Affairs, DME = Department of Minerals and Energy (now DMPE), DMP = Department of Mining and Petroleum, DOE = Department of Environment (now DEC), DOH = Department of Health, DOW = Department of Water, EPA = Environmental Protection Authority, Part IV = Evaluation Division (now Assessment and Compliance Division, OEPA), HWMA = Health Department of WA (now DoH), Minister for Env = Minister for the Environment, OEPA = Office of the Environmental Protection Authority, Part V = Pollution Prevention Division (now Environmental Regulation Division, DEC), WMD = Waste Management Division (now Waste Management Branch, DEC), WRRC = Water and Rivers Commission (now DoW).

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
786:M1.1	Proposal Implementation	The proponent shall implement the proposal as assessed by the Environmental Protection Authority and described in schedule 1 of this statement subject to the conditions and procedures of this statement.	Project implemented in accordance with these criteria	Compliance Reports (CR)	Overall		C	Section 3.1 of Annual Compliance Report – Extension Hill Hematte Haulage Road & Rail Siding 2014 – 2015.
786:M2.1	Proponent Nomination and Contact Details	The proponent for the time being nominated by the Minister for the Environment under sections 38(6) or 38(7) of the Environmental Protection Act 1986 is responsible for the implementation of the proposal.			Overall		C	
786:M2.2	Proponent Nomination and Contact Details	The proponent shall notify the Chief Executive Officer (CEO) of the Department of Environment and Conservation of any change of the name and address of the proponent for the serving of notices or other correspondence within 30 days of such change.	Letter to the CEO notifying of change of contact name and address.	Letter to the CEO notifying of change of contact name and address.	Overall	Within 30 days of such change.	C	Change of address letter sent 11/10/2012.
786:M3.1	Time Limit of Authorisation	The authorisation to implement the proposal provided for in this statement shall lapse and be void within five years after the date of this statement if the proposal to which this statement relates is not substantially commenced.			Overall	Commence implementation by 19 February 2014.	CLD	
786:M3.2	Time Limit of Authorisation	The proponent shall provide the CEO of the Department of Environment and Conservation with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of five years from the date of this statement.	Letter to the CEO notifying that the proposal has substantially commenced.	Letter to the CEO demonstrating that the proposal has substantially commenced.	Overall	Within one month of commencement.	CLD	Substantial commencement notification originally sent to DEC 6/7/2010. Second notification sent to OEPA 18/4/2012.



**AUDIT TABLE**  
**STATEMENT COMPLIANCE SECTION**  
**PROJECT: EXTENSION HILL HEMATITE HAULAGE ROAD & RAIL SIDING**  
**SHIRES OF PERENJORI & YALGOO**  
 Updated 14 January 2013

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
786:M4.1	Compliance Reporting	The proponent shall submit to the CEO of the Department of Environment and Conservation environmental compliance reports annually reporting on the previous twelve-month period, unless required by the CEO of the Department of Environment and Conservation to report more frequently.	Submit to the CEO annual compliance reports, covering the conditions of this audit table.	CR	Overall	Annually by 19 April each year unless required more frequently Annual reporting period is from 19 February each year.	C	<i>Annual Compliance Report – Extension Hill Hematite Haulage Road &amp; Rail Siding 2013 – 2014</i> submitted 8/4/2014.
786:M4.2	Compliance Reporting	The environmental compliance reports shall address each element of an audit program approved by the CEO of the Department of Environment and Conservation and shall be prepared and submitted in a format acceptable to the CEO of the Department of Environment and Conservation.	The annual compliance reports will cover the conditions of this audit table.	Audit program and CR.	Overall		C	Appendix A of <i>Annual Compliance Report – Extension Hill Hematite Haulage Road &amp; Rail Siding 2013 – 2014</i> .
786:M4.3	Compliance Reporting	Submission of Environmental Compliance Reports.	The environmental compliance reports shall: 1.be endorsed by signature of the proponent's chief executive officer or a person, approved in writing by the CEO of the Department of Environment and Conservation, delegated to sign on behalf of the proponent's chief executive officer; 2.state whether the proponent has complied with each condition and procedure contained in this statement; 3.provide verifiable evidence of compliance with each condition and procedure contained in this statement; 4.state whether the proponent has complied with each key action contained in any environmental management plan or program required by this statement; 5.provide verifiable evidence of conformance with each key action contained in any environmental management plan or program required by this statement; 6. identify all non-compliances and non-conformances and describe the corrective and preventative actions taken in relation to each non-compliance or non-conformance; 7. review the effectiveness of all corrective and preventative actions taken; and 8. describe the state of implementation of the proposal.	CR	Overall		C	<i>Annual Compliance Report – Extension Hill Hematite Haulage Road &amp; Rail Siding 2013 – 2014</i> .





**AUDIT TABLE**  
**STATEMENT COMPLIANCE SECTION**  
**PROJECT: EXTENSION HILL HEMATITTE HAULAGE**  
**ROAD & RAIL SIDING**  
**SHIRES OF PERENJORI & YALGOO**  
 Updated 14 January 2013

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
786:M4.4	Compliance Reporting	The proponent shall make the environmental compliance reports required by condition 4-1 publicly available in a manner approved by the CEO of the Department of Environment and Conservation.	In accordance with the OEPA "Post Assessment Guideline for making information publicly available" (PAG4), published August 2012.		Overall	Within 7 days of receiving a request for publically available information.	C	No requests for publically available information received during this period.
786:M5.1	Performance Review and Reporting	The proponent shall submit to the CEO of the Department of Environment and Conservation Performance Review Reports at the conclusion of the first, third and fifth years after the start of implementation of the proposal and then, at such intervals as the CEO of the Department of Environment and Conservation may regard as reasonable.	The Performance Review Reports shall address: 1. the major environmental risks and impacts; the performance objectives, standards and criteria related to these; the success of risk reduction/impact mitigation measures and results of monitoring related to the management of the major risks and impacts; 2. the level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of best available technology where practicable; and 3. significant improvements gained in environmental management which could be applied to this and other similar projects.	Performance Review Reports	Overall	At the conclusion of the first, third and fifth years after the start of implementation of the proposal and then, at such intervals as the CEO of the DEC may regard as reasonable.	C	<i>Extension Hill Hematitite Haulage Road &amp; Rail Siding Performance Review Report 2011</i> submitted 3/6/2011  <i>Extension Hill Hematitite Haulage Road &amp; Rail Siding Performance Review Report 2013</i> submitted 17/7/2013
786:M6.1	Flora and Vegetation Clearing	The proponent shall not clear more than 80 hectares of vegetation for borrow pits, and in doing so, shall not take any Declared Rare Flora or Priority flora species.	The clearing of vegetation for borrow pits shall only take place in areas of potential borrow pits as indicated in figures 3a-e, but shall not take place in areas listed in schedule 2.	CR	Overall		C	No vegetation clearing was conducted during this period.
786:M6.2	Impact of Groundwater Drawdown on Flora and Vegetation	At all times, the proponent shall ensure that groundwater drawdown in the vicinity of the groundwater abstraction bores does not adversely affect the health or condition of vegetation.	Regular monitoring of groundwater levels and vegetation in the vicinity of groundwater abstractions bores.	Groundwater and vegetation monitoring results	Overall	At all times	C	Section 4.1 and 4.2 of <i>Annual Compliance Report – Extension Hill Hematitite Haulage Road &amp; Rail Siding 2014 – 2015</i> .
786:M6.3	Impact of Groundwater Drawdown on Flora and Vegetation	The proponent shall monitor groundwater and vegetation in the vicinity of the groundwater abstraction bores to facilitate determination of whether the requirements of condition 6-2 are being met. This monitoring is to be carried out to the satisfaction of the CEO of the Department of Environment and Conservation.	Regular monitoring of groundwater levels and vegetation in the vicinity of groundwater abstractions bores.	Groundwater and vegetation monitoring results	Overall		C	Section 4.1 and 4.2 of <i>Annual Compliance Report – Extension Hill Hematitite Haulage Road &amp; Rail Siding 2014 – 2015</i> . Letter from K. Taylor (OEPA) dated 22/10/2014.



**AUDIT TABLE**  
**STATEMENT COMPLIANCE SECTION**  
**PROJECT: EXTENSION HILL HEMATITE HAULAGE**  
**ROAD & RAIL SIDING**  
**SHIRES OF PERENJORI & YALGOO**  
 Updated 14 January 2013

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status	Further Information
786:MG.4	Impact of Groundwater Drawdown on Flora and Vegetation	The proponent shall submit the results of the monitoring of groundwater and vegetation required by condition 6-3 to the CEO of the Department of Environment and Conservation.	Submission of groundwater and vegetation monitoring results to the CEO as part of the annual compliance report.	Groundwater and vegetation monitoring results	Overall		C	Section 4.1 and 4.2 of Annual Compliance Report – Extension Hill Hematite Haulage Road & Rail Siding 2014 – 2015.
786:MG.5	Impact of Groundwater Drawdown on Flora and Vegetation	The proponent shall immediately provide proposed management measures to the CEO of the Department of Environment and Conservation in the event that the requirements of condition 6-2 are not met or are not likely to be met.			Overall	Immediately, in the event that the requirements of condition 6-2 are not met or are not likely to be met.	NR	
786:MG.6	Impact of Saline Water Application on Flora and Vegetation	During construction and operation, the proponent shall ensure that the use of saline water for road-making and dust control does not cause detrimental effects on flora and vegetation.	Regular monitoring of fringing vegetation for at least 12 months after construction and comparison with baseline data.	Fringing vegetation health monitoring results	Overall	During construction and operation.	C	Section 4.2 of Annual Compliance Report – Extension Hill Hematite Haulage Road & Rail Siding 2011 – 2012.
786:MG.7	Impact of Saline Water Application on Flora and Vegetation	The proponent shall monitor the health of fringing vegetation referred to in condition 6-6 before, during and for at least 12 months after construction, and shall report to the CEO of the Department of Environment and Conservation on the health of that vegetation following the cessation of monitoring.	Regular monitoring of fringing vegetation for at least 12 months after construction and comparison with baseline data.	Fringing vegetation health monitoring results	Overall	Before, during and for at least 12 months after construction.	C	Section 4.2 of Annual Compliance Report – Extension Hill Hematite Haulage Road & Rail Siding 2011 – 2012.
786:MG.8	Rehabilitation of Disturbed Areas	Generally within six months following the completion of construction, but in the case of borrow pits, within six months following their closure, the proponent shall commence rehabilitation by replacing top soil in all disturbed areas, and thereafter shall progressively rehabilitate.	By replacing top soil in all disturbed areas and by means of planting flora and vegetation to achieve pre-proposal composition, extent and condition.	CR	Overall	Generally within six months following the completion of construction, but in the case of borrow pits, within six months following their closure.	C	Section 4.2 of Annual Compliance Report – Extension Hill Hematite Haulage Road & Rail Siding 2014 – 2015.
786:MG.9	Rehabilitation of Disturbed Areas	For five years following the completion of construction, the proponent shall monitor progressively and submit a report at the conclusion of the five-year period on the performance of the rehabilitation required by condition 6-8 to the CEO of the Department of Environment and Conservation.	Annual monitoring of the performance of the rehabilitation of disturbed areas, for 5 years following the completion of construction.	Report on the performance of rehabilitation	Overall	For five years following the completion of construction and at the conclusion of the five year period.	C	Section 4.2 of Annual Compliance Report – Extension Hill Hematite Haulage Road & Rail Siding 2014 – 2015.

## **APPENDIX B**

### **Proponent Commitments Audit Table**



**AUDIT TABLE**  
 Proponent Commitments  
 PROJECT: EXTENSION HILL HEMATITE HAULAGE ROAD & RAIL SIDING  
 SITES OF PERENJORI & YALGOO

Audit Code	Subject	Action	Evidence	Status
786:P1	Environmental Management	MGM will manage the environmental aspects of the haulage road upgrade through the Internal Environmental Management System (EMS).	Compliance Document	C
786:P2	Training	MGM will ensure that all staff undergo environmental and heritage induction training in order to address the environmental commitments made in this process.	Induction Register	C
786:P6	Vegetation	Induction to include: outlining clearing requirements and identification of significant remnants and flora, the implementation of a site clearance protocol.	Induction	C
786:P7	Vegetation	Rehabilitate any areas that are no longer required following construction (that is, the borrow pits and the services corridor construction platform). This to include stripping and windrowing of topsoil for respreading following construction.	Compliance Document	C
786:P8	Vegetation	Revegetate an area of up to 20 ha surrounding the railway siding for amenity and habitat purposes.		NR
786:P12	Vegetation	Personnel will be trained in fire management and control procedures.	Induction	C
786:P13	Vegetation	MGM will ensure that fire fighting equipment is available in site vehicles.	Vehicle pre-start inspection	C
786:P19	Fauna	Hollows logs and branches will be utilised in rehabilitation activities.	No further rehabilitation during this period	Completed
786:P20	Fauna	Induction of driving staff will include advice to maintain appropriate caution when driving through the Pastoral Zone of the upgraded road.	Induction	C
786:P21	Fauna	Regular monitoring and reporting of road kills will be undertaken.	Compliance Document	C
786:P26	Groundwater	Utilise groundwater in compliance with an approved licence.	Compliance Document	C
786:P28	Noise	Transport activities will comply with Exposure Level 1 of the WAPC – Draft Statement of Planning Policy for Road and Rail Transport Noise (May, 2005), all other activities (e.g. those at the rail siding facility) will comply with the Environmental Protection (Noise) Regulations 1997.	No noise complaints received at the road or rail siding	C
786:P29	Noise	Trucks used for haulage will be purchased in order to comply with a sound power level of 113 dB(A) or less.		C
786:P30	Noise	Rail siding loaders will be fitted with standard reverse beepers and additional blue reverse lights. The beepers will be operated only during daylight hours. After dark, only the lights will be used, thus achieving the objective of minimising noise disturbance on the nearby town of Perenjori.	No noise complaints received at the road or rail siding	C
786:P31	Noise	MGM will maintain a complaints register and respond within 24 hours to any noise complaints received.	Complaints Register	C
786:P32	Noise	In consultation with the rail owner and with the local community MGM will seek to vary the departure time of loaded trains during the cooler periods of the year.	MGM does not have authority to alter rail times. MGM has consulted with Brookfield Rail regarding the train departure times.	C
786:P34	Dust	Routine housekeeping, maintenance of equipment (eg. vehicle washdown available prior to accessing public roads) and operational practices (eg. vehicle loading, adherence to site speed limits) will be undertaken to reduce the potential for dust generation.	Routine housekeeping procedures are in place.	C
786:P35	Dust	Activities that are known to cause dust generation (e.g. ore loading / unloading) will seek to avoid high wind conditions where possible.	Where avoidance is not possible additional water sprays are employed	C



**AUDIT TABLE**  
 Proponent Commitments  
 PROJECT: EXTENSION HILL, HEMATITE HAULAGE ROAD & RAIL SIDING  
 SHIRES OF PERENJORI & YALGOO

Audit Code	Subject	Action	Evidence	Status
786:P36	Dust	Where the above is not sufficient additional dust suppression techniques will be employed.	Where avoidance is not possible additional water sprays are employed	C
786:P37	Dust	MGM will maintain a complaints register and respond within 24 hours to any dust complaints received.	Complaints Register	C
786:P38	Dangerous Goods and Spills	Dangerous Goods storage facilities, will be designed and operated in accordance with the Explosives and Dangerous Goods Act 1961 and relevant Regulations and standards, for example, all hydrocarbon storage facilities will be compliant with AS 1940 – 2004 Australian Standard for The storage and handling of flammable and combustible liquids.	Dangerous goods licence DGS021007	C
786:P40	Dangerous Goods and Spills	All routine maintenance of equipment, and refueling, will be undertaken in a designated area with provision for containment and cleanup of any spills.	Undertaken at the designated workshop area and fuel bay and MGM maintenance area. Spill kits available.	C
786:P41	Dangerous Goods and Spills	All spills of fuels and lubricants will be contained, removed and reported. Any contaminated material will be excavated and stored in appropriate containers and disposed of at an appropriately licensed facility.	Compliance Document.	C
786:P42	Waste	As far as practicable, waste management strategies will adopt the principles of the 'Waste Management Hierarchy', which considers the avoidance of waste as the most preferred option through to the disposal of waste as the least preferred option.	MGX-HSEC-EH-SWI-370 Waste Management	C
786:P43	Waste	All wastes will be appropriately contained whilst on Site to ensure no harm to the environment.	MGX-HSEC-EH-SWI-370 Waste Management	C
786:P44	Waste	Any rubbish or general waste will be removed and disposed of to the mine site landfill for disposal, or an alternative location approved by the Shire of Perenjori or the DEC.	Taken to Shire of Perenjori landfill facility	C
786:P45	Greenhouse	MGM will monitor and review greenhouse emission estimates and report on its greenhouse gas emissions in accordance with WA Greenhouse Gas Inventory (WAGGI) requirements.	Superseded by NPI and NGER reporting	C
786:P46	Stakeholder Liaison	MGM commits to liaise with the Australian Bush Heritage Fund (Charles Darwin Reserve / White Wells Pastoral Lease) and the Australian Wildlife Conservancy (Mt Gibson Pastoral Lease) formally on a regular basis (at least quarterly during the construction phase and annually during the operational phase) to ensure there are no concerns.	Telephone/email correspondence Liaison meeting held 28/5/2014	C

