Environmental Protection Act 1986

Section 43A

NOTICE OF DECISION TO CONSENT TO AMEND A REFERRED PROPOSAL DURING ASSESSMENT

PERSON TO WHOM THIS NOTICE IS GIVEN

FI Joint Venture Pty Ltd (ACN: 611 846 023)
Level 14, Forest Centre
221 St Georges Terrace
PERTH WA 6000

PROPOSAL TO WHICH THIS NOTICE RELATES:

Yogi Magnetite Project
Assessment No. 2154

Pursuant to s. 43A of the *Environmental Protection Act 1986* (EP Act), the Environmental Protection Authority (EPA) gives approval to the assessment of the proposal being completed in respect of the proposal as amended in accordance with the proponent's request:

- An increase in power generation capacity from 70 megawatts (MW) to 71.08 MW and a change from thermal (gas) power only to a combination of gas and renewable energy (solar, wind and battery energy storage system).
- Amendment of a clerical error regarding the area of the Pipeline Development Envelope (PDE) which was stated to be 76,800.5 hectares (ha); the actual area of the PDE is 76,439 ha.

The amended proposal content document and figures are attached.

EFFECT OF THIS NOTICE:

1. The assessment of the proposal is to be completed in respect of the proposal as amended in accordance with the decision set out in this notice.
2. The proposal as amended in accordance with this notice is taken to have been referred to the EPA under s. 38 of the EP Act.

RIGHTS OF APPEAL:

There are no rights of appeal under the EP Act in respect of this decision.

Prof. Matthew Tonts
Delegate of the Environmental Protection Authority
CHAIR

28 November 2022

Attachment 1 - Amended proposal content document and figure/s showing the amendments

Template

Proposal Content Document

Table 1: General proposal content description

Proposal title	Yogi Magnetite Project – Assessment No. 2154
Proponent name	FI Joint Venture
Short description	FI Joint Venture Pty Ltd (FIJV) proposes to establish and operate a magnetite iron ore mine (Figure 1) approximately 250 km east-northeast of Geraldton and 15 km northeast of Yalgoo in the Mid-West region of Western Australia (WA). The Yogi Magnetite Mine project (the Proposal) also includes a slurry pipeline from the mine site to Geraldton port (Figure 2), a return water pipeline, and a gas supply pipeline from the Dampier to Bunbury Natural Gas Pipeline.

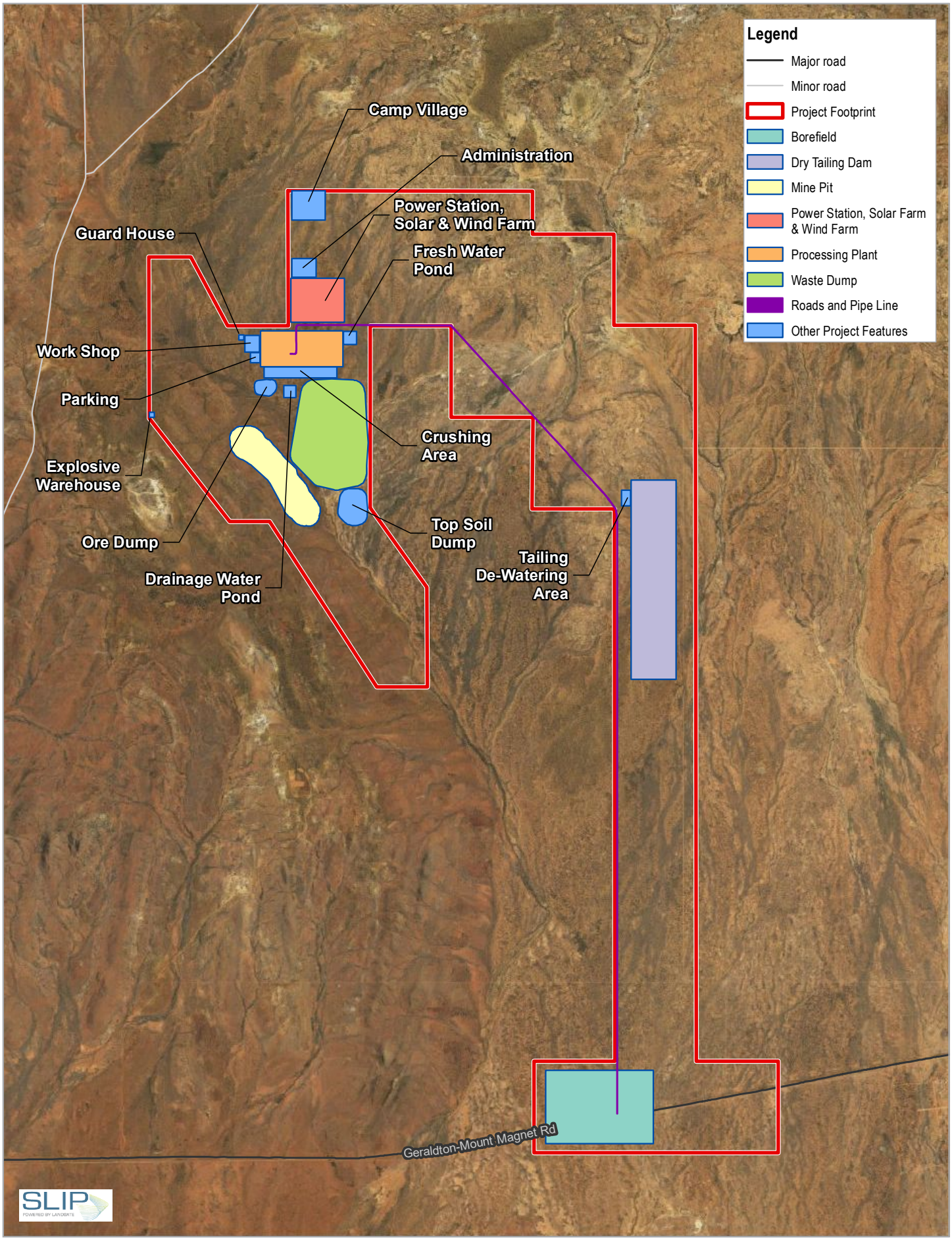
Table 2: Proposal content elements

Proposal element	Location / description	Proposed extent, capacity or range
Physical elements		
Mine Development Envelope (MDE) Including mine pit, mining overburden and waste facilities, dry processing waste facility, mine and processing support infrastructure and corridors	Figure 1	Clearing of no more than 1,530 ha within a 8,230 ha Mine Development Envelope
Pipeline Development Envelope (PDE) Including magnetite slurry pipeline, water pipeline and gas pipeline	Figure 2	Clearing of no more than 200 ha within a 76,439 ha Pipeline Development Envelope

Proposal element	Location / description	Proposed extent, capacity or range
Operational elements		
Groundwater abstraction (water demand)	Figure 1	Up to 1 GLpa from the water supply borefield
Mine site dewatering	Figure 1	Up to 4 GLpa from the mine pit dewatering (to be used for processing)
Power	Figure 1	Up to 71.08 MW thermal power station (upper limit for power generation) with variable renewable contributions of: • Up to 34.2 MW solar • Up to 28.5 MW wind • Up to 24.5 MW Battery Energy Storage System (BESS) to balance and optimise the energy production mix.
Gas supply	Figure 1	Gas to be supplied to the power station via a buried steel pipeline at a rate of up to 23 TJ/day
Overburden / waste rock	Figure 1	Disposal of up to 800 million tonnes (over the life of the project)
Ore processing waste	Figure 1	Disposal of up to 80 million m^3 of dry processing waste (over the project life)
Ore transport	Figure 2	Ore will be transported as a slurry in the new slurry pipeline proposed to be constructed between Yogi Mine and Geraldton Port.
Proposal elements with greenhouse gas emissions		
Proposal element	**Location / description**	**Proposed extent, capacity or range**
Operational elements		
Scope 1	Figure 1	4,619,643 tCO_2-e For further details regarding this estimate, refer to the Yogi Magnetite Project Greenhouse Gas Management Plan (GHD 2022).
Scope 2	Figure 1	None
Rehabilitation		
No change – rehabilitation will be carried out progressively as described in the Environmental Review Document for the Yogi Magnetite Project – Assessment No. 2154.		
Commissioning		
The power station will be commissioned using standard gas and diesel generator commissioning processes.		
Decommissioning		
No change – decommissioning at the end of the project will be carried out as described in the Environmental Review Document for the Yogi Magnetite Project – Assessment No. 2154.		

Other elements which affect extent of effects on the environment		
Proposal element	**Location / description**	**Combined extent, capacity or range**
Proposal time*	Maximum project life	21 years mine life
	Construction phase	2-3 years (2023-2025)
	Operations phase	21 years
	Decommissioning phase	1 year

** Proponents should only provide realistic timeframes to avoid unnecessary change to proposal applications at referral (section 38C), assessment (section 43A) or post assessment (section 45C).*



Paper Size ISO A4

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Kilometres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 50

N

GHD

FI Joint Venture Pty Ltd
Yogi Fauna Survey

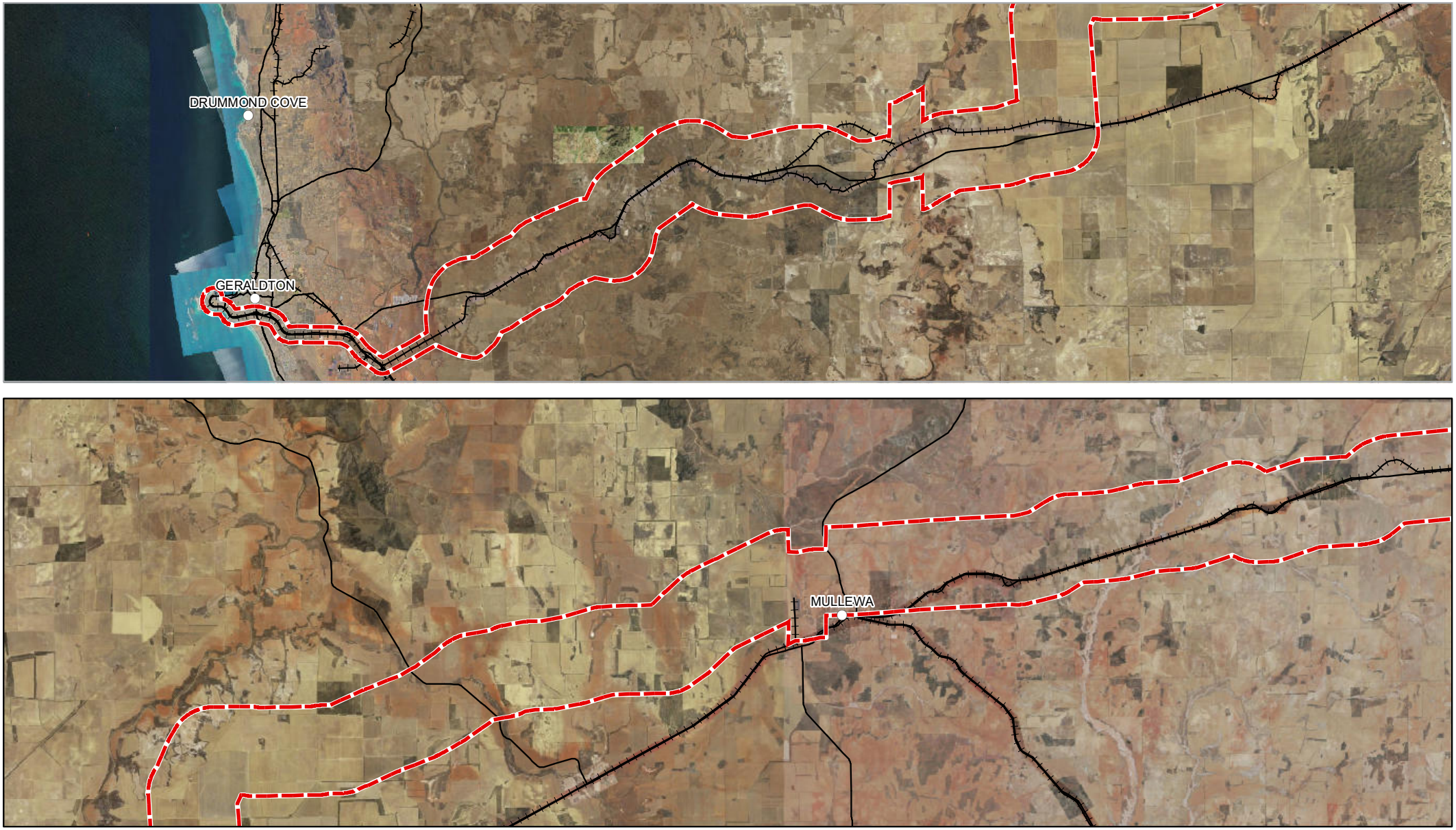
Mine Development Envelope and Proposal Footprint

Project No. **61-37117**
Revision No. **2**
Date **13/05/2022**

FIGURE 1

C:\Users\bmorgan\AppData\Local\Temp\arc7C8A\6137117_001_ProjectFootprint_rev2.mxd
Print date: 13 May 2022 - 12:34

Data source: GHD: Survey Area - 20180622, Fauna Habitats, Potential Accommodation Options - 20201020; Landgate: Roads - 20181023, Exploration Tenement - 20180817, Imagery - Taken September 2012 - Accessed 20181210.. Created by: bmorgan



Legend

- City
- Main Roads
- Railways
- Pipeline Development Envelope

Paper Size ISO A4

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Kilometres

Map Projection: Transverse Mercator
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FI Joint Venture Pty Ltd
Environmental Review Document

Pipeline Development Envelope

Project No. **61-37117**
Revision No. **0**
Date **13 Mar 2020**

FIGURE 2-2

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Print date: 13 Mar 2020 - 11:59

Data source: GHD: Pipeline Development Envelope - 20190124, Pipeline Dessign - 20190416; Landgate: Roads - 20190128, Railway - 20190304, Imagery. Created by: cgverzosa

Legend

- Major roads
- Minor roads
- Pipeline Development Envelope
- Cadastral boundary

SLIP POWERED BY LANDGATE

Paper Size ISO A4

0 1 2 3 4

Kilometres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
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GHD

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FIGURE 2-2

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Print date: 13 Mar 2020 - 12:04

Data source: GHD: Pipeline Corridor and Pipeline Development Envelope - 20190124; Landgate: Roads - 20190128, Railway - 20190304, Imagery. Created by: cgverzosa

Summary of reasons for decision – request to amend a referred proposal during assessment under s. 43A of the *Environmental Protection Act 1986*

Proposal title: Yogi Magnetite Project

Environment Online Reference Number: N/A

Date request to amend referred proposal under s. 43A received: 19-01-2022 initial application received. Revised submission received 10-02-2022. Additional information received on 13-05-2022, 25-05-2022 and 25-08-2022.

Proponent: FI Joint Venture Pty Ltd

Proposal referral date: 19-12-2017

Level of assessment: Public Environmental Review

Existing referred proposal:

FI Joint Venture Pty Ltd (FIJV) proposes to establish and operate a magnetite iron ore mine approximately 250 km east-northeast of Geraldton and 15 km northeast of Yalgoo in the Mid-West region of Western Australia. The proposal also includes a slurry pipeline from the mine site to Geraldton port, a return water pipeline, and a gas supply pipeline from the Dampier to Bunbury Natural Gas Pipeline.

Short description of amendment(s) sought:

The proposed amendment is to increase the power generation capacity from 70 megawatts (MW) to 71.08 MW and a change from thermal (gas) power only to a combination of gas and renewable energy. Additionally, there was a clerical error regarding the area of the Pipeline Development Envelope (PDE) which was stated to be 76,800.5 hectares (ha); the actual area of the PDE is 76,439 ha.

Table 1: Proposed changes from the original proposal as a result of the amendment

Proposal element	Original Proposal	s.43A (Amended Proposal)
Physical elements		
Pipeline Development Envelope (PDE) including magnetite slurry pipeline, water pipeline and gas pipeline	Clearing of no more than 200 ha within a 76,800.5 ha Pipeline Development Envelope	Clearing of no more than 200 ha within a **76,439 ha Pipeline Development Envelope**

Operational elements		
Power	70 MW to be supplied by onsite Gas Power Station	**Up to 71.08 MW** thermal power station (upper limit for power generation) with variable renewable contributions of: • Up to **34.2 MW solar** • Up to **28.5 MW wind** • **Up to 24.5 MW Battery Energy Storage System (BESS)** to balance and optimise the energy production mix.
Scope 1 greenhouse gas emissions	6,511,365 tonnes carbon dioxide equivalent (tCO_2-e)	**4,619,643 tCO_2-e**

Decision:

Amendment(s) to proposal as set out in attachment 1 is approved.

Environmental factors relevant to amendment(s):

- Air Quality: a reduction in pollutant emissions associated with power generation activities.
- Greenhouse Gas Emissions: a reduction in greenhouse gas emissions generated via combustion of hydrocarbons and use of electricity.

Summary of likely changes to environmental impacts from proposed amendment

The proponent has incorporated renewable energy sources as part of the power supply for the proposal. A summary of the changes to environmental impacts for the proposed amendment, in comparison to existing referred proposal is provided in Table 2 below.

Table 2: Amendments and changes to environmental impacts

Amendment sought	Changes to environmental impacts
Amendment of a clerical error in the area of the Pipeline Development Envelope resulting in a decrease from 76,800.5 ha to 76,439 ha.	The proposed change does not alter the key environmental factors likely to be impacted by the proposal, which will be considered during the assessment. There will be no change to the proposed extent of native vegetation clearing or the operational area within which proposed works will occur (i.e. the Pipeline Development Envelope).
An increase in power generation capacity from 70 MW to 71.08 MW and a change from thermal power only to a	Likely decreased impacts to: - Air quality due to lower emissions associated with power generating activities via use of solar and wind renewable energy.

Amendment sought	Changes to environmental impacts
combination of gas and renewable energy comprising the following: - Up to 34.2 MW solar - Up to 28.5 MW wind - Up to 24.5 MW Battery Energy Storage System (BESS)	- Greenhouse gas emissions by adopting renewable energy sources which will avoid up to 90,082 tCO_2-e per year for the life of the operation, totalling approximately 1.89 $MtCO_2$-e avoided over 21 years. The potential impacts, and the pathways for those impacts, to each of the identified environmental factors remains unchanged. The EPA considers that the proposed change will not increase potential for inconsistency of the proposal with each of the EPA's identified environmental factor objectives.

Summary of consultation

No public consultation has been undertaken by the proponent on the s.43A application. The ERD was subject to a 6-week public review, which was considered sufficient for consultation on the impacts for the proposal. The proposal is currently in the Response to Submissions phase to address comments on the ERD.

Internal advice has been sought in relation to the Greenhouse Gas Management Plan. The amended Plan has undergone numerous revisions and is now considered to meet the requirements of the EPA's Environmental Factor Guideline for Greenhouse Gas Emissions.

Summary of consideration of amendment

The EPA has considered whether, if the proposal were already approved, the amendment would be a significant amendment. This has included considering the likely significance of:

- Effects of the proposed amendment on its own.
- Effects of the proposed amendment in the context of the existing referred proposal.
- Cumulative environmental impacts.
- Holistic impacts.

The EPA has considered whether it has sufficient information about the proposed amendment to be able to reasonably proceed with assessment of the amended proposal with or without performing any additional functions at this stage.

The EPA has considered whether the amended proposal will still be substantially the same character as the existing referred proposal.

Approval – not a significant amendment

The EPA considers the amended proposal to be substantially the same character as the existing referred proposal and does not consider that the amendment would be a significant amendment if the proposal were already approved. The EPA considers it has enough information to reasonably proceed with assessment of the amended proposal without performing any additional functions at this stage.

Attachments

- Amended Proposal content document

Appeals: Decision not appealable.

Prof. Matthew Tonts
CHAIR
Delegate of the Environmental Protection Authority

Date: 28 November 2022

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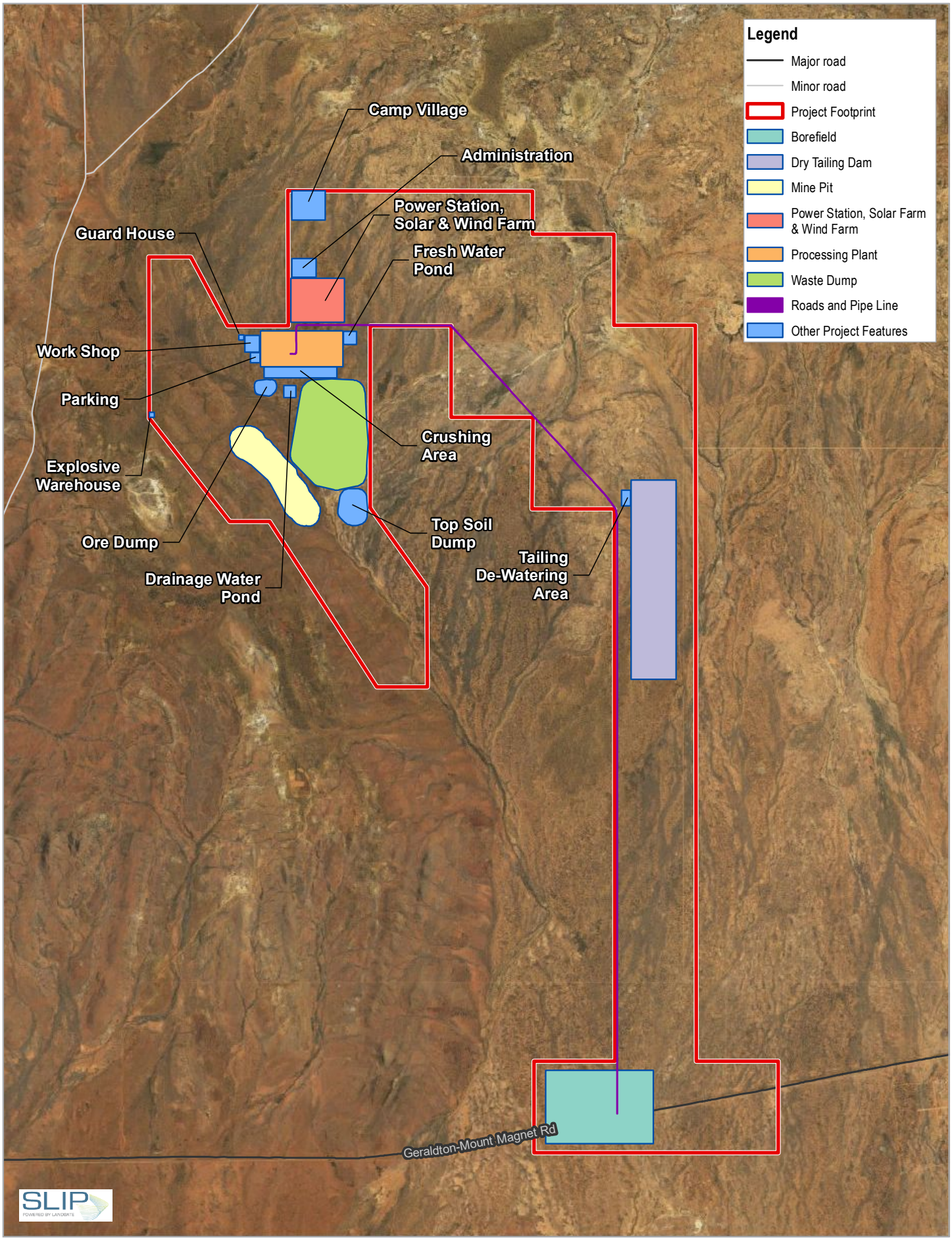

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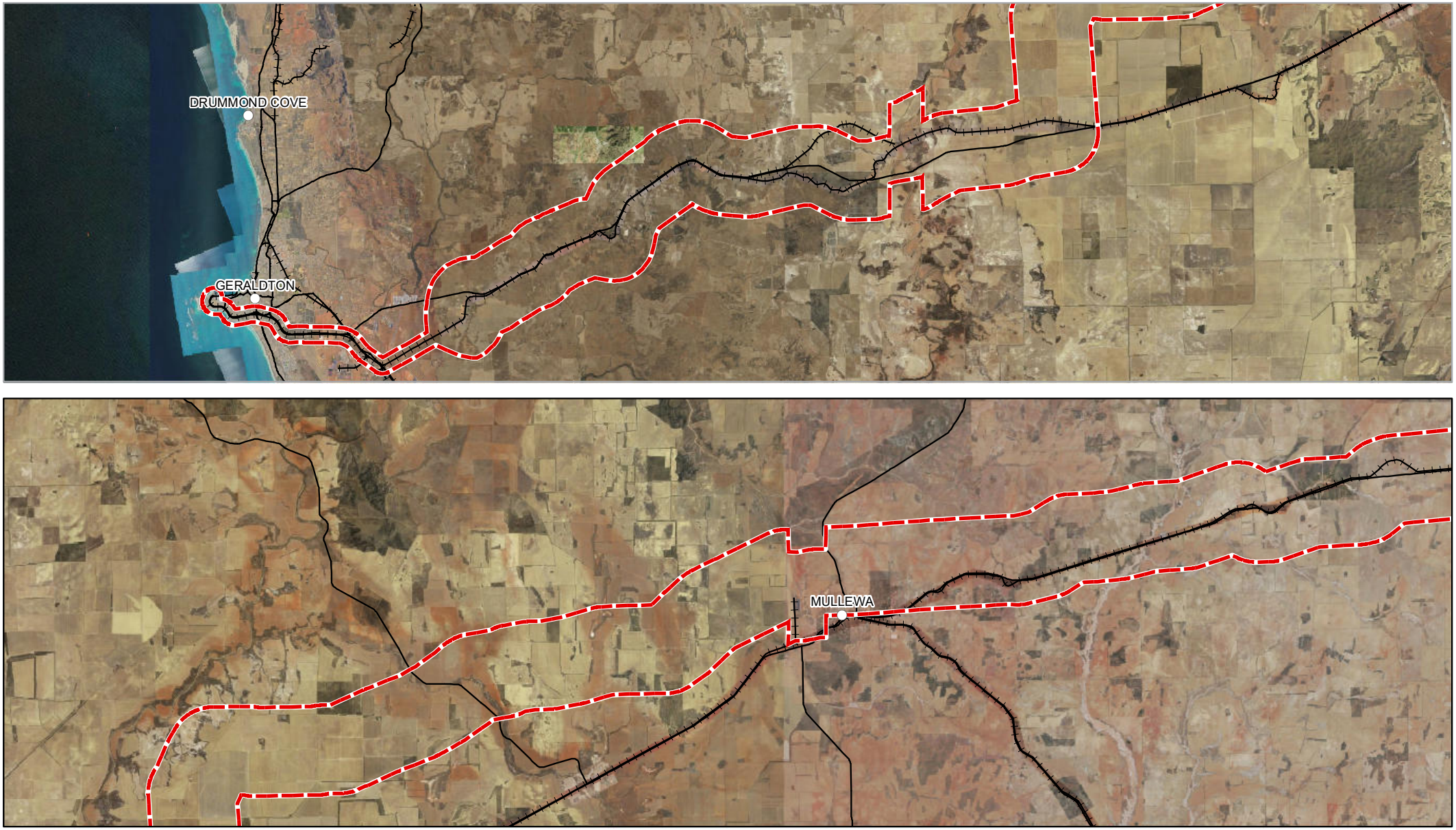

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