15th March 2024

[redacted]

Department of Water and Environmental Regulation
Prime House
8 Davidson Terrace
Joondalup WA 6027

Dear **XXX**,

Green Steel of WA Collie Pty Ltd (GSWA) is pleased to apply for a Native Vegetation Clearing Permit (NVCP) under Section 51E of Part V of the *Environmental Protection Act 1986* (EP Act), for activities associated with construction of the proposal (the Collie Green Steel Mill).

The Collie Green Steel Mill will be **Western Australia's first steel mill** as well as the first new steel mill to be constructed in Australia in over 30 years.

Using well proven, advanced electric arc furnace technology, the plant will **recycle 500,000 tonnes of WA** scrap steel (all of which is currently exported or landfilled), converting it into low carbon intensity (green) reinforcing bar or rebar for local consumption. In doing so, the plant will create for the first time, a true a circular economy for steel in WA while **abating between 200,000 and 800,000 tonnes of CO_2 emissions** per annum compared to existing methods of steel production.

The project will also create **over 500 long term, highly skilled jobs for workers most impacted by Collie's energy transition** (coal mining and power generation workers), thus playing a significant role in helping one of WA's most iconic towns achieve a Just Transition.

The project has and continues to receive strong support from WA State Government as it aligns with many of the State's policies and objectives including promoting local manufacturing, regional job creation and decarbonisation. To this effect, we have attached a letter of support from the JTSI.

Please find the following NVCP application as supporting documents to this letter.

Note: GSWA has appointed GHD Pty Ltd (GHD) to prepare the NVCP application for clearing up to 41.5 hectares (ha) of native vegetation within the 111.1 ha Proposal area.

Yours Sincerely,

Green Steel of WA Collie Pty Ltd
Level 28, 140 St Georges Terrace, Perth 6000
ABN 90 668 113 728

Government of **Western Australia**
Department of **Jobs, Tourism, Science and Innovation**

Your Ref:
Our Ref:
Enquiries: Angela.Trevithick@jtsi.wa.gov.au

[redacted]es Terrace

Dear Mr Ho

Green Steel of WA - Collie Steel Mill project

I write in reference to Green Steel of WA's (GSWA) Collie Steel Mill project (the Project) proposed in Coolangatta Industrial Area, Collie, Western Australia.

The Project aims to create a sustainable steel manufacturing industry in Western Australia by recycling scrap steel into reinforcing bar for local consumption and export utilising modern electric arc furnace technology.

The Project is well aligned with the Just Transition Plan for Collie and the Diversify WA framework which supports the WA Government's focus on creating secure, quality jobs, growing and diversifying the economy and attracting investment. As such, the WA Government has supported the project through a $2.7 million grant from the Collie Industry Attraction and Development fund for a bankable feasibility study.

As the Project progresses through this feasibility study and development phase, together with the Collie Delivery Unit of the Department of the Premier and Cabinet, JTSI is providing project facilitation to coordinate across government planning and approval processes.

Should the outcome of this feasibility study be positive, the Project has the potential to create up to 200 direct jobs and many more indirect jobs which, if realised, could provide employment opportunities for Collie's transitioning workforce as Collie shifts away from coal fired power generation toward new industries.

I wish you all the best with gaining the relevant approvals and developing the Collie Steel Mill project.

Yours sincerely

[redacted]

Level 11, 1 William Street Perth Western Australia 6000
Telephone +61 8 6277 3000
www.jtsi.wa.gov.au
ABN 90 199 516 864

Collie Green Steel Mill – DWER Native Vegetation Clearing Permit application

20 March 2024

To	[redacted]	**Contact No.**	[redacted]
Copy to	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	**Project No.**	12609060
		Document Number	12609060-GHD-00-00-RPT-EN-00002
Project Name	Green Steel of WA Collie Pty Ltd – Collie Green Steel Mill		
Subject	Department of Water and Environmental Regulation (DWER) Native Vegetation Clearing Permit (NVCP) application		

1. Introduction

Green Steel of Western Australia Pty Ltd (GSWA) propose to develop the Collie Steel Mill and associated infrastructure (the Proposal) at 154 Boys Home Road, Palmer (Lot 2 on Deposited Plan 74040). The Proposal area is located approximately 5 km northeast of the Collie townsite within the Coolangatta Industrial Estate in the Shire of Collie (Figure 1, Appendix A). The Proposal will be developed for the purpose of construction of a 450kTPA electric arc furnace steel mill that will process local scrap metal to produce predominantly re-enforcing bar (rebar) for local consumption and export.

1.1 Purpose of this report

GSWA commissioned GHD Pty Ltd (GHD) to prepare a Native Vegetation Clearing Permit (NVCP) application for clearing up to 41.7 ha of native vegetation for the purpose of construction of the Proposal. This Technical Memorandum has been prepared in support of an application for a NVCP under Section 51E of Part V of the *Environmental Protection Act 1986* (EP Act), for activities associated with construction of the Proposal.

2. Native Vegetation Clearing Permit application area

The Proposal area is approximately 111.1 hectares (ha) and comprises land generally between the Bluewaters Power Station, Griffin Coal's Ewington open cut mine and the Collie State Forest.

The Proposal area is currently being used for agricultural purposes, in particular grazing. The section to the south of the site where the rail extension is to be built passes through an area of Department of Biodiversity, Conservation and Attractions (DBCA) managed Collie State Forest. A water pipeline will also be constructed within an existing Western Power easement to the west of Lot 2.

The Proposal area comprises the following land parcels:

– Plant and access road:
  - Part Lot 2 on Deposited Plan 74040 (154 Boys Home Road, Palmer)
– Rail spur (Collie State Forest):
  - Part Lot 1505 on Plan 110876, part Lot 1486 on Plan 110882 and part Land ID 4035609
– Water pipeline:
  - Within Western Power easement within portion of Lot 116 on Deposited Plan 412278.

Certificates of Title and letters of authorisation to access the land for the purposes as described above are provided in Appendix B.

The 111.1 ha Proposal area includes proposed clearing of up to 41.5 ha of native vegetation, avoidance of 0.3 ha by use of directional drilling construction methods and the remaining 69.3 ha of the Proposal area is comprised of previously disturbed areas such as cleared pasture/ access tracks/ easements.

Figure 2 (Appendix A) provides the extent of the following:

– 111.1 ha Proposal area
– 148.9 ha flora and fauna survey area
– 41.5 ha proposed clearing of native vegetation
– 0.3 ha avoidance area.

Native vegetation types within the Proposal area are provided in Figure 3 (Appendix A) and this vegetation is mapped as being in Completely Degraded to Very Good condition (Figure 4, Appendix A).

3. Avoidance and mitigation

The proposed clearing has been restricted to areas which have been disturbed for many years primarily for agricultural purposes, access tracks and easements. Avoidance of native vegetation clearing was a key consideration in the preparation and planning of the Proposal, including the following design aspects:

– The Plant and access road has been located in previously disturbed agricultural land within Lot 2 which has been subject to disturbance (grazing and clearing) and is mapped as Degraded to Completely Degraded
– The water pipeline is proposed to be constructed in an existing Western Power 25 m wide easement (portion of Lot 116 on Deposited Plan 412278) which is predominantly cleared
– The Proposal has been designed so that the rail spur is located on the boundary of native vegetation (Collie State Forest) and adjacent to existing disturbed land (mining to the west) to:
  - Avoid fragmentation of native vegetation and fauna habitat
  - Avoid clearing of a Black Cockatoo potential nesting tree with suitable hollow/s to the east of the rail spur (Figure 5, Appendix A).
  - Reduce indirect impacts of clearing such as edge effects.

4. Relevant investigation reports and management plans

The following assessments and management plans have been undertaken to provide supporting information for development of the Proposal:

– Black Cockatoo Habitat Tree Assessment (Onshore Environmental, 2024a) (Appendix E)
– Detailed Flora and Vegetation Survey (Onshore Environmental, 2024b) (Appendix D)
– Targeted Camera Trap Fauna Survey (Onshore Environmental, 2023) (Appendix F)
– Acoustic Assessment (GHD, 2023a)

- Air Quality Impact Assessment (GHD, 2023b)
- *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC) significance assessment technical memorandum (GHD, 2024) (Appendix G).
- Surface Water Management Plan (GHD, 2023d)
- Traffic management assessment (GHD, 2023e)
- Dangerous Goods Compliance Assessment: Stage 1 – Preliminary Review (Engtech, 2023)
- Bushfire Management Plan (Linfire Consultancy, 2023).

5. Ten Clearing Principles Assessment

Schedule 5 of the EP Act defines Ten Clearing Principles for native vegetation. These principles aim to ensure that all potential impacts resulting from removal of native vegetation can be assessed in an integrated way. Clearing required for construction of the Project has been assessed against the Ten Clearing Principles, in accordance with the DWER's A Guide to the Assessment of Applications to Clear Native Vegetation (DER, 2014) to determine whether the application is at variance.

The assessment has been based on clearing of up to 41.5 ha of native vegetation within the 111.1 ha Proposal area. The assessment indicates that clearing within the Proposal area may be at variance to Principle (b) and is not considered likely to be at variance to the remaining clearing principles (Appendix C).

6. Other approvals

GSWA is currently in the process of applying for the following planning and environmental approvals for the Proposal:

- A Development Approval application was lodged with the Shire of Collie on 13 February 2024 and is currently undergoing assessment by the Shire for determination by the State Regional Development Assessment Panel.
- GSWA has submitted a referral under the EPBC Act to Department of Climate Change, Energy, the Environment and Water (DCCEEW) however this submission is currently undergoing validation. It is unknown, at time of writing, if the Proposal will be deemed a 'controlled action'.
- It is acknowledged that the Proposal area lies within the Wellington Dam Catchment Area (Zone D) listed under the *Country Area Water Supply Act 1947* (CAWS Act). GSWA will submit a CAWS Act application licence to DWER in parallel to this NVCP application.
- GSWA will apply for a Part V Works Approval Application for construction of the Proposal – this document is in preparation.

7. References

CSIRO. (2023). *Australian Soil Resource Information System (ASRIS) National ASS Atlas.* Commonwealth Scientific and Industrial Research Organisation. Retrieved from https://asris.csiro.au/

DBCA. (2007-). *NatureMap: Mapping Western Australia's Biodiversity*. Retrieved from Parks and Wildlife Services: https://naturemap.dpaw.wa.gov.au/

DBCA. (2023). *Threatened and Priority Flora information (10km buffer) - Threatened and Priority Flora (TPFL) and Western Australian Herbarium Specimen (WAHERB) databases.* Department of Biodiversity, Conservation and Attractions. Retrieved from Department of Biodiversity, Conservation and Attractions.

DCCEEW. (2023a). *EPBC Protected Matters Search Tool.* Retrieved from Department of Climate Change, Energy, the Environment and Water: https://www.dcceew.gov.au/environment/epbc/protected-matters-search-tool

DCCEEW. (2023b). *Interim Biogeographic Regionalisation for Australia, Version 7*. Retrieved from Department of Climate Change, Energy, the Environment and Water: https://www.dcceew.gov.au/environment/land/nrs/science/ibra/australias-bioregions-maps

DCCEEW. (2023c). *Register of the National Estate.* Retrieved from Department of Climate Change, Energy, the Environment and Water: https://www.dcceew.gov.au/parks-heritage/heritage/places/register-national-estate

DER. (2014). *A guide to the assessment of applications to clear native vegetation.* Perth: Department of Environment Regulation.

DER. (2021). *Understanding Salinity*. Retrieved from Department of Water and Environment Regulation: https://www.water.wa.gov.au/water-topics/water-quality/managing-water-quality/understanding-salinity

Engtech. (2023). *Dangerous Goods Compliance Assessment: Stage 1 - Preliminary Review.* Unpublished report prepared for Green Steel of WA.

GHD. (2023a). *Collie Steel Mill Acoustic Assessment .* Unpublished report prepared for Green Steel of WA Pty Ltd.

GHD. (2023b). *Collie Steel Mill Air Quality Impact Assessment .* Unpublished report prepared for Green Steel of WA Pty Ltd.

GHD. (2023d). *Collie Steel Mill Surface Water Management Plan.* Unpublished report prepared for Green Steel of WA Pty Ltd.

GHD. (2023e). *Collie Steel Mill Transport Impact Assessment 12609060-PA-RPT-004.* Unpublished report prepared for Green Steel of WA.

GHD. (2024). *Collie Steel Mill Environmental Protection and Biodiversity Conservation Act 1999 (EPBC) significance assessment technical memorandum.* Unpublished Technical Memorandum for Busselton Water.

GoWA. (2019). *2018 South West Vegetation Complex Statistics. Current as of March 2019.* Perth: WA Department of Biodiversity, Conservation and Attractions. Retrieved from https://catalogue.data.wa.gov.au/dataset/dbca

GoWA. (2023). *data.wa.gov.au.* Retrieved from https://data.wa.gov.au/

Heddle, E. M., Loneragan, O. W., & Havel, J. J. (1980). *Vegetation Complexes of the Darling System, Western Australia, in Atlas of Natural Resources, Darling System Western Australia.* Perth: Department of Conservation and Environment.

Linfire Consultancy. (2023). *Bushfire Management Plan - Proposed Steel Mill, Part 154 (Lot 2) Boys Home Rd, Palmer.* Unpublished report prepared for GHD on behalf of Green Steel of WA Pty Ltd.

Onshore Environmental. (2023). *Targeted Camera Trap Fauna Survey.* Unpublished report prepared for Green Steel of WA Pty Ltd.

Onshore Environmental. (2024a). *Black Cockatoo Habitat Tree Assessment.* Unpublished report prepared for Green Steel of WA Pty Ltd.

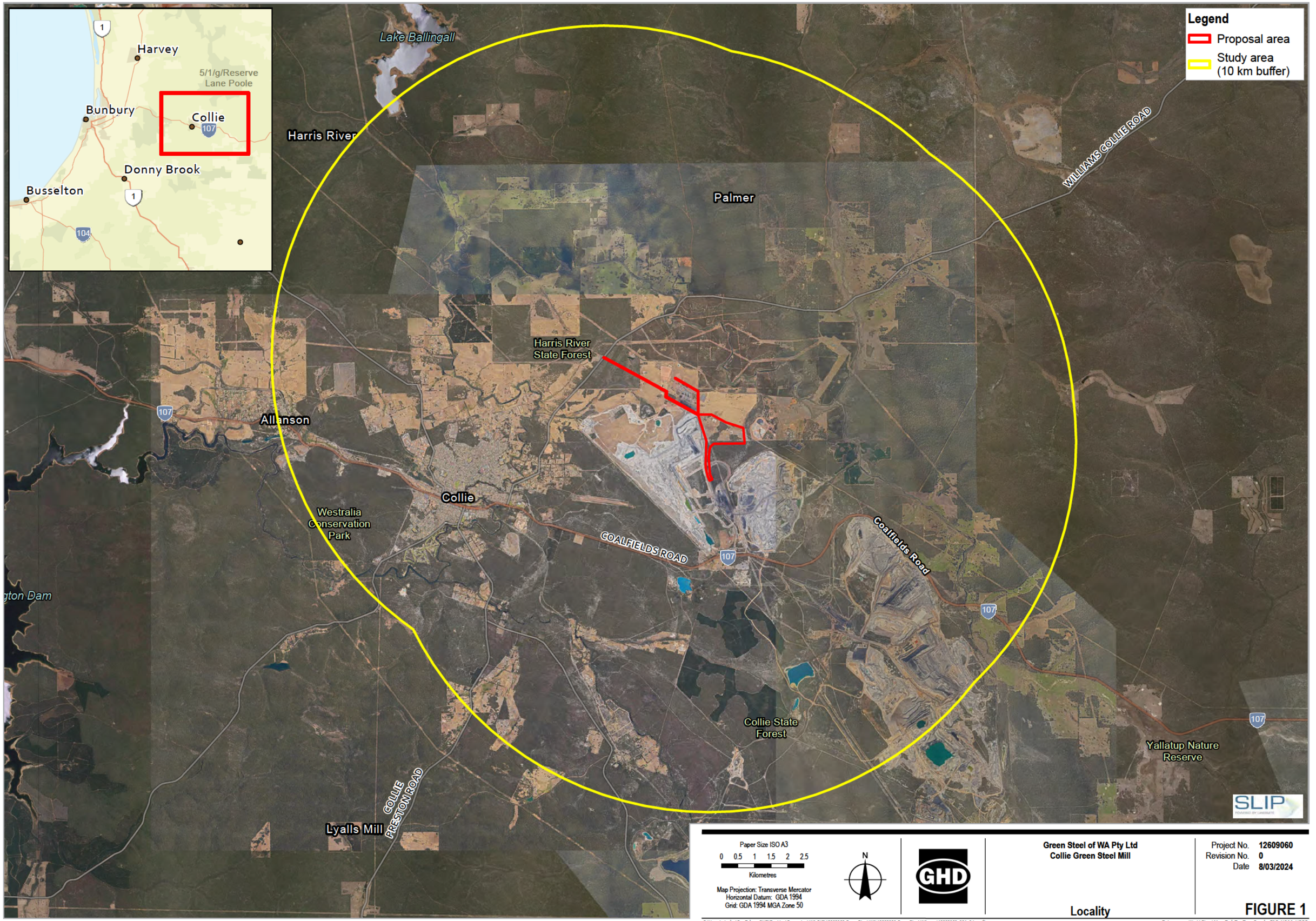
Onshore Environmental. (2024b). *Detailed Flora and Vegetation Survey Collie Green Steel Recycling Mill.* Unpublished report prepared for Green Steel of WA Pty Ltd.

Williams, K. M., & Mitchell, D. (2002). Jarrah Forest 1 (JF1 – Northern Jarrah Forest subregion). In *A Biodiversity Audit of Western Australia's 53 Biogeographical Subregions in 2002.*

Appendix A

Figures

Figure 1	*Locality*
Figure 2	*Proposal area, survey area, Plant site, proposed clearing and DBCA State Forest*
Figure 3	*Vegetation types*
Figure 4	*Vegetation condition*
Figure 5	*Black Cockatoo habitat and proposed native vegetation to be cleared*
Figure 6	*Black Cockatoo breeding and roosting habitat desktop assessment*
Figure 7	*Hydrology*



Paper Size ISO A3

0 0.5 1 1.5 2 2.5

Kilometres

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

N

GHD

Green Steel of WA Pty Ltd
Collie Green Steel Mill

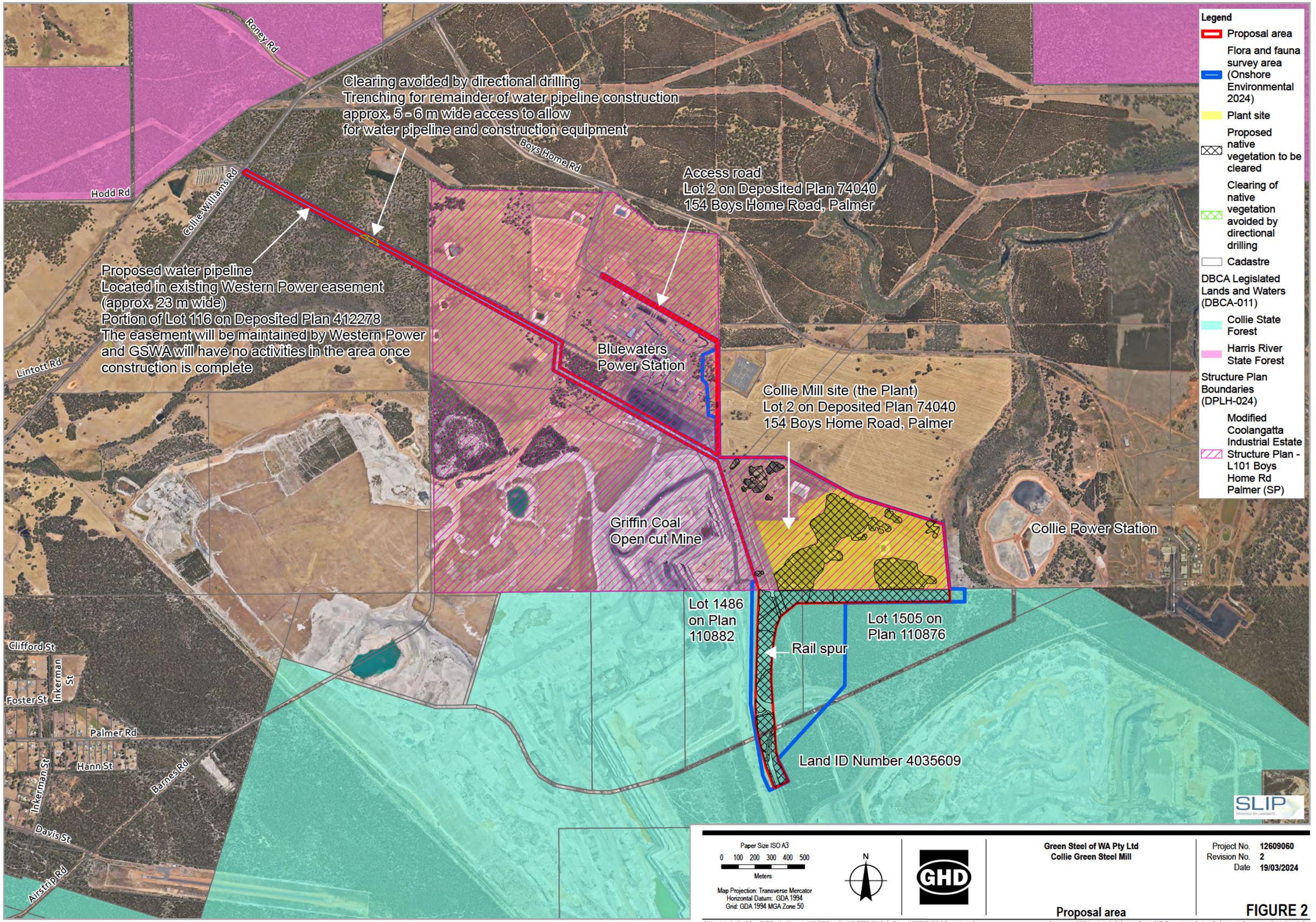
Project No. **12609060**
Revision No. **0**
Date **8/03/2024**

Locality

FIGURE 1

C:\Users\vdavies\OneDrive - GHD\Desktop\Greensteel WA GIS\12609060 GreenSteel WA\12609060 GreenSteel WA.aprx\12609060_001_0-Locality
Print date: 08 Mar 2024 - 15:59

Data source: World Street Map: Esri, TomTom, Garmin, FAO, NOAA, USGS
Hybrid Reference Layer: Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS
WMS: Landgate: Aerial imagery, Roads, Towns; GHD: Proposal area, Study area. Created by: vdavies



Paper Size ISO A3

0 100 200 300 400 500

Meters

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

N

GHD

Green Steel of WA Pty Ltd
Collie Green Steel Mill

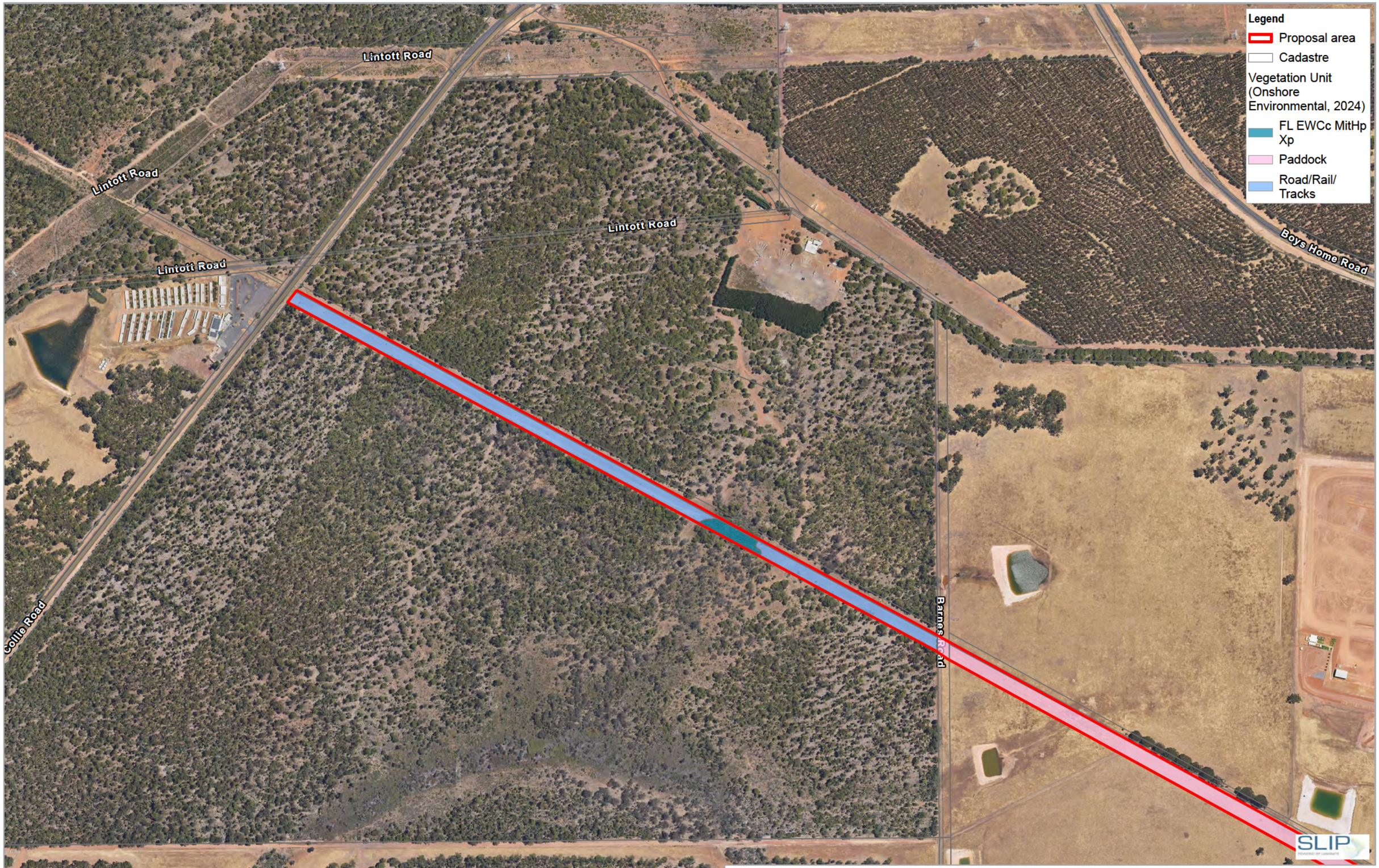
Project No. **12609060**
Revision No. **2**
Date **19/03/2024**

Proposal area

FIGURE 2

C:\Users\vdavies\OneDrive - GHD\Desktop\Greensteel WA GIS\GreenSteelWA_EPBCv2\MyProject74.aprx\12609060_002_2-Proposal area & survey area
Print date: 19 Mar 2024 - 09:26

Data source: WMS: Landgate: Aerial imagery, Roads; GHD: Proposal area; Onshore Environmental: Survey area . Created by: vdavies



Paper Size ISO A3

0 50 100 150 200

Meters

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

N

GHD

Green Steel of WA Pty Ltd
Collie Green Steel Mill

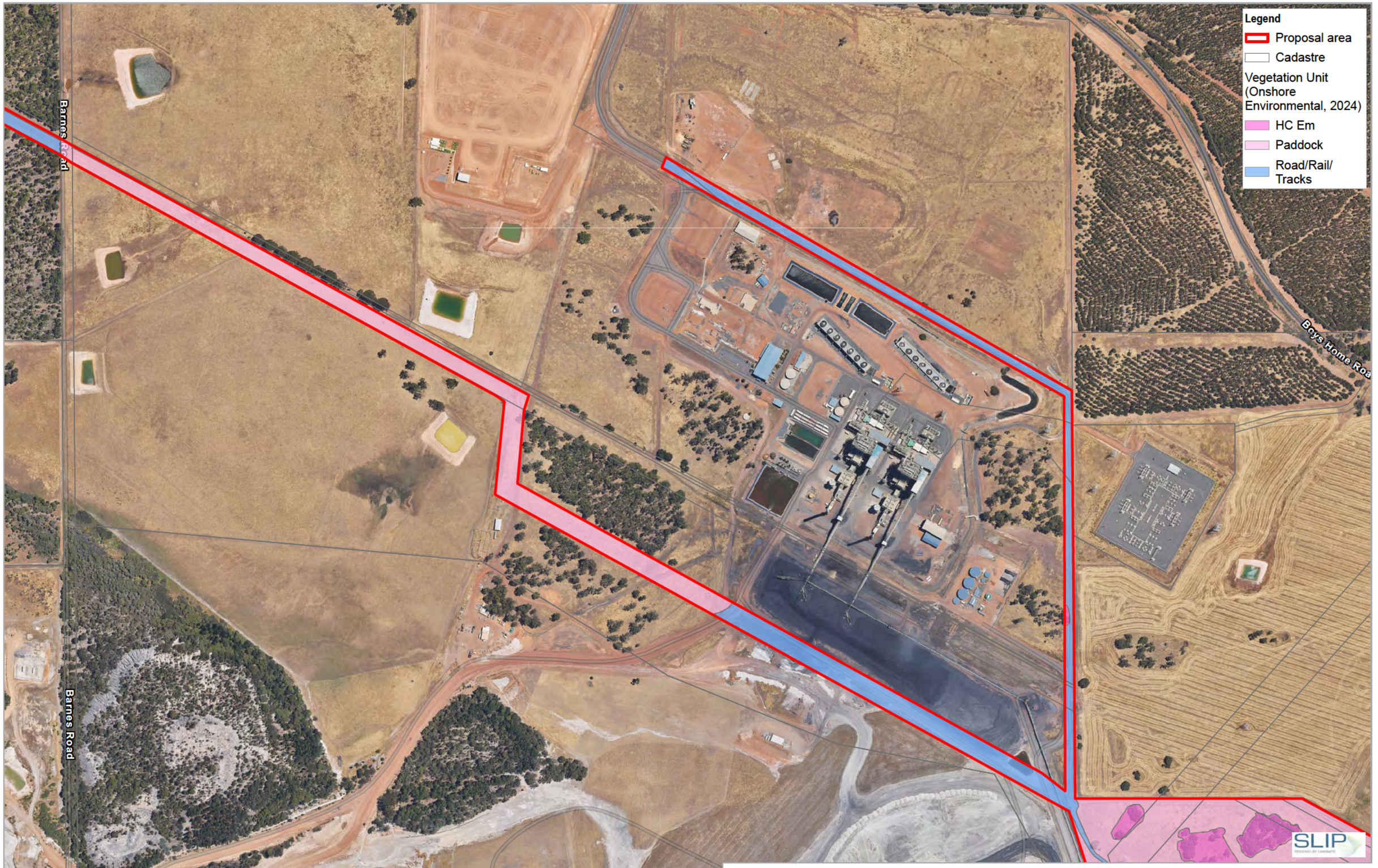
Project No. **12609060**
Revision No. **0**
Date **9/03/2024**

Vegetation Types

FIGURE 3

C:\Users\vdavies\OneDrive - GHD\Desktop\Greensteel WA GIS\12609060 GreenSteel WA\12609060 GreenSteel WA.aprx\12609060_003_0-Vegetation Types
Print date: 09 Mar 2024 - 16:10

Data source: Hybrid Reference Layer: Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS
WMS: Landgate: Aerial imagery, Cadastre, Roads; GHD: Proposal area, Extrapolated areas; Onshore Environmental: Vegetation Units. Created by: vdavies



Paper Size ISO A3

0 50 100 150 200

Meters

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

N

GHD

Green Steel of WA Pty Ltd
Collie Green Steel Mill

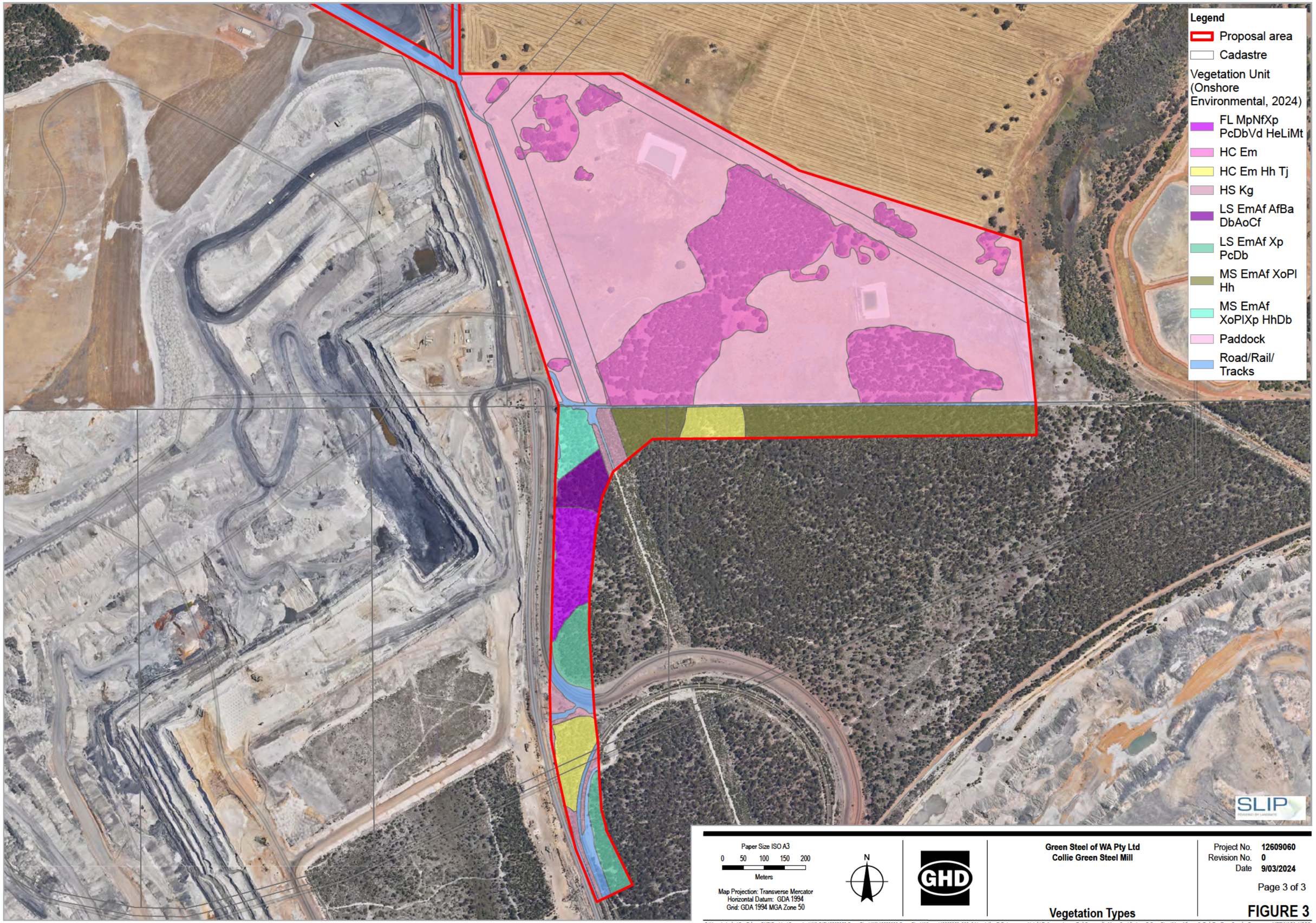
Vegetation Types

Project No. **12609060**
Revision No. **0**
Date **9/03/2024**

FIGURE 3

C:\Users\vdavies\OneDrive - GHD\Desktop\Greensteel WA GIS\12609060 GreenSteel WA\12609060 GreenSteel WA.aprx\12609060_003_0-Vegetation Types
Print date: 09 Mar 2024 - 16:10

Data source: Hybrid Reference Layer: Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS
WMS: Landgate: Aerial imagery, Cadastre, Roads; GHD: Proposal area, Extrapolated areas; Onshore Environmental: Vegetation Units. Created by: vdavies



Paper Size ISO A3

0 50 100 150 200

Meters

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

N

GHD

Green Steel of WA Pty Ltd
Collie Green Steel Mill

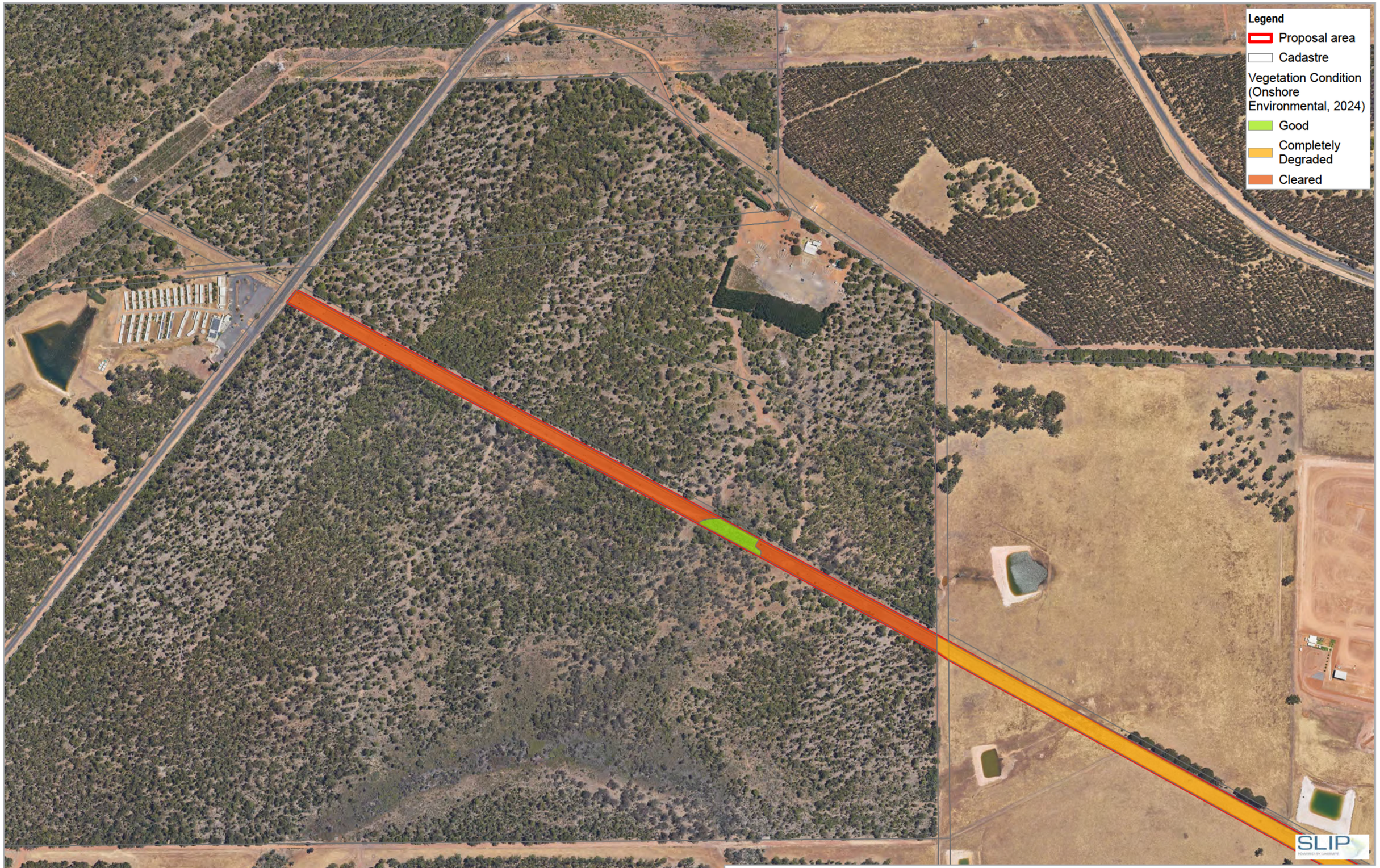
Project No. **12609060**
Revision No. **0**
Date **9/03/2024**

Vegetation Types

FIGURE 3

C:\Users\wdavies\OneDrive - GHD\Desktop\Greensteel WA GIS\12609060 GreenSteel WA\12609060 GreenSteel WA.aprx\12609060_003_0-Vegetation Types
Print date: 09 Mar 2024 - 16:10

Data source: Hybrid Reference Layer: Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS
WMS: Landgate: Aerial imagery, Cadastre, Roads; GHD: Proposal area, Extrapolated areas; Onshore Environmental: Vegetation Units. Created by: wdavies



Paper Size ISO A3

0 50 100 150 200

Meters

Map Projection: Transverse Mercator
Horizontal Datum: GDA2020
Grid: GDA2020 MGA Zone 50

N

GHD

Green Steel of WA Pty Ltd
Collie Green Steel Mill

Project No. **12609060**
Revision No. **0**
Date **9/03/2024**

Vegetation Condition

FIGURE 4

C:\Users\vdavies\OneDrive - GHD\Desktop\Greensteel WA GIS\12609060 GreenSteel WA\12609060 GreenSteel WA.aprx\12609060_004_0-VegetationCondition
Print date: 09 Mar 2024 - 16:27

Data source: WMS: Landgate: Aerial imagery, Cadastre, Roads; GHD: Proposal area, Extrapolated condition; Onshore Environmental: Vegetation Condition. Created by: vdavies



Paper Size ISO A3

0 50 100 150 200

Meters

Map Projection: Transverse Mercator
Horizontal Datum: GDA2020
Grid: GDA2020 MGA Zone 50

N

GHD

Green Steel of WA Pty Ltd
Collie Green Steel Mill

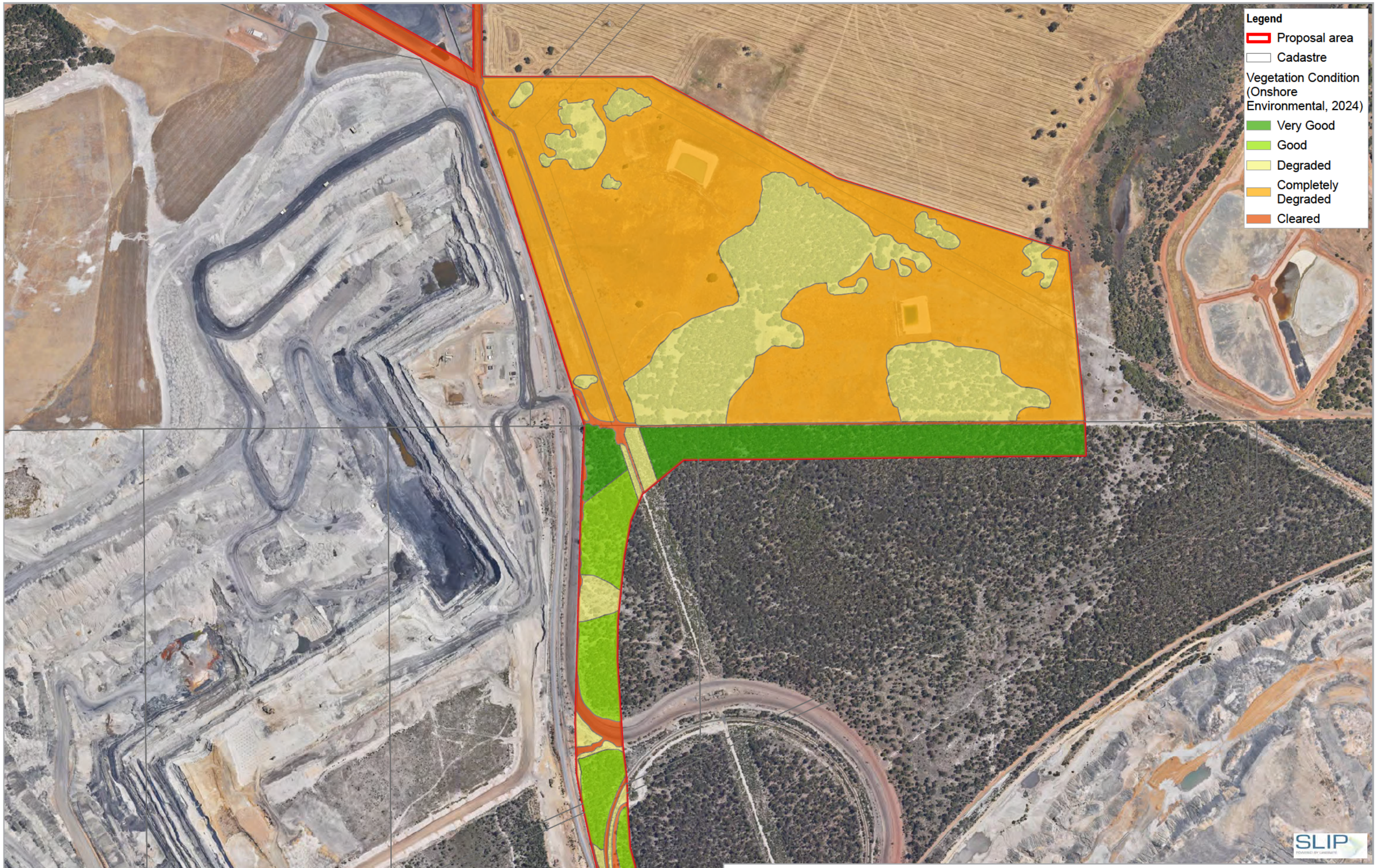
Project No. **12609060**
Revision No. **0**
Date **9/03/2024**

Vegetation Condition

FIGURE 4

C:\Users\vdavies\OneDrive - GHD\Desktop\Greensteel WA GIS\12609060 GreenSteel WA\12609060 GreenSteel WA.aprx\12609060_004_0-VegetationCondition
Print date: 09 Mar 2024 - 16:28

Data source: WMS: Landgate: Aerial imagery, Cadastre, Roads; GHD: Proposal area, Extrapolated condition; Onshore Environmental: Vegetation Condition. Created by: vdavies



Paper Size ISO A3

0 50 100 150 200

Meters

Map Projection: Transverse Mercator
Horizontal Datum: GDA2020
Grid: GDA2020 MGA Zone 50

N

GHD

Green Steel of WA Pty Ltd
Collie Green Steel Mill

Project No. **12609060**
Revision No. **0**
Date **9/03/2024**

Vegetation Condition

FIGURE 4

C:\Users\vdavies\OneDrive - GHD\Desktop\Greensteel WA GIS\12609060 GreenSteel WA\12609060 GreenSteel WA.aprx\12609060_004_0-VegetationCondition

Data source: WMS: Landgate: Aerial imagery, Cadastre, Roads; GHD: Proposal area, Extrapolated condition; Onshore Environmental: Vegetation Condition. Created by: vdavies

Print date: 09 Mar 2024 - 16:28

Lintott Road

Lintott Road

Lintott Road

Barnes Road

VP01



VP01 View north west

Legend

- Proposal area
- Cadastre
- Proposed native vegetation to be cleared
- Clearing of native vegetation avoided by directional drilling

Fauna habitat (Onshore Environmental, 2024)

- Melaleuca Scrub
- Disturbed

Black Cockatoo habitat trees (DBH>500mm) (Onshore Environmental 2024)

- Potential nesting tree - no suitable hollows
- Suitable nesting tree - hollow

SLIP

Paper Size ISO A3

0 20 40 60 80 100

Meters

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

N

GHD

Green Steel of WA Pty Ltd
Collie Green Steel Mill

Black Cockatoo habitat & proposed native vegetation to be cleared

Project No. **12609060**
Revision No. **1**
Date **18/03/2024**

FIGURE 5

C:\Users\vdavies\OneDrive - GHD\Desktop\Greensteel WA GIS\GreenSteelWA_EPBCv2\MyProject74.aprx\Fauna habitat Figure 8 - 1 of 3
Print date: 18 Mar 2024 - 08:33

Data source: Hybrid Reference Layer: Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS
WMS: Landgate: Aerial imagery, Roads, Cadastre; GHD: Proposal area; GSWA: Plant footprint; Onshore Environmental: Fauna habitat, Habitat trees. . Created by: vdavies

Barnes Road

Legend

- Proposal area
- Proposed native vegetation to be cleared
- Cadastre

Fauna habitat (Onshore Environmental, 2024)

- Paddock
- Parkland Cleared Jarrah Forest (High quality foraging)
- Disturbed

Black Cockatoo habitat trees (DBH>500mm) (Onshore Environmental 2024)

- Potential nesting tree - no suitable hollows
- Suitable nesting tree - hollow

VP02 View north west

VP02



VP02 View north west

SLIP

Paper Size ISO A3

0 20 40 60 80 100

Meters

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

N

GHD

Green Steel of WA Pty Ltd
Collie Green Steel Mill

Black Cockatoo habitat & proposed native vegetation to be cleared

Project No. **12609060**
Revision No. **1**
Date **18/03/2024**

Page 2 of 3

FIGURE 5

C:\Users\wdavies\OneDrive - GHD\Desktop\Greensteel WA GIS\GreenSteelWA_EPBC\v2\MyProject74.aprx\Fauna habitat Figure 8 - 2 of 3
Print date: 18 Mar 2024 - 08:14

Data source: Hybrid Reference Layer: Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS
World Topographic Map: Esri, HERE, Garmin, USGS
WMS: Landgate: Aerial imagery, Roads, Cadastre; GHD: Proposal area; GSWA: Plant footprint; Onshore Environmental: Fauna habitat, Habitat trees. Created by:

VP03 View south east



Legend

- Proposal area
- Proposed native vegetation to be cleared
- Cadastre

Fauna habitat (Onshore Environmental, 2024)

- Jarrah-Sheoak Forest (High quality foraging)
- Paddock
- Parkland Cleared Jarrah Forest (High quality foraging)
- Disturbed
- Road

Black Cockatoo habitat trees (DBH>500mm) (Onshore Environmental 2024)

- Potential nesting tree - no suitable hollows
- Suitable nesting tree - hollow
- Roosting habitat evidence

SLIP

Paper Size ISO A3

0 30 60 90 120 150

Meters

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

N

GHD

Green Steel of WA Pty Ltd
Collie Green Steel Mill

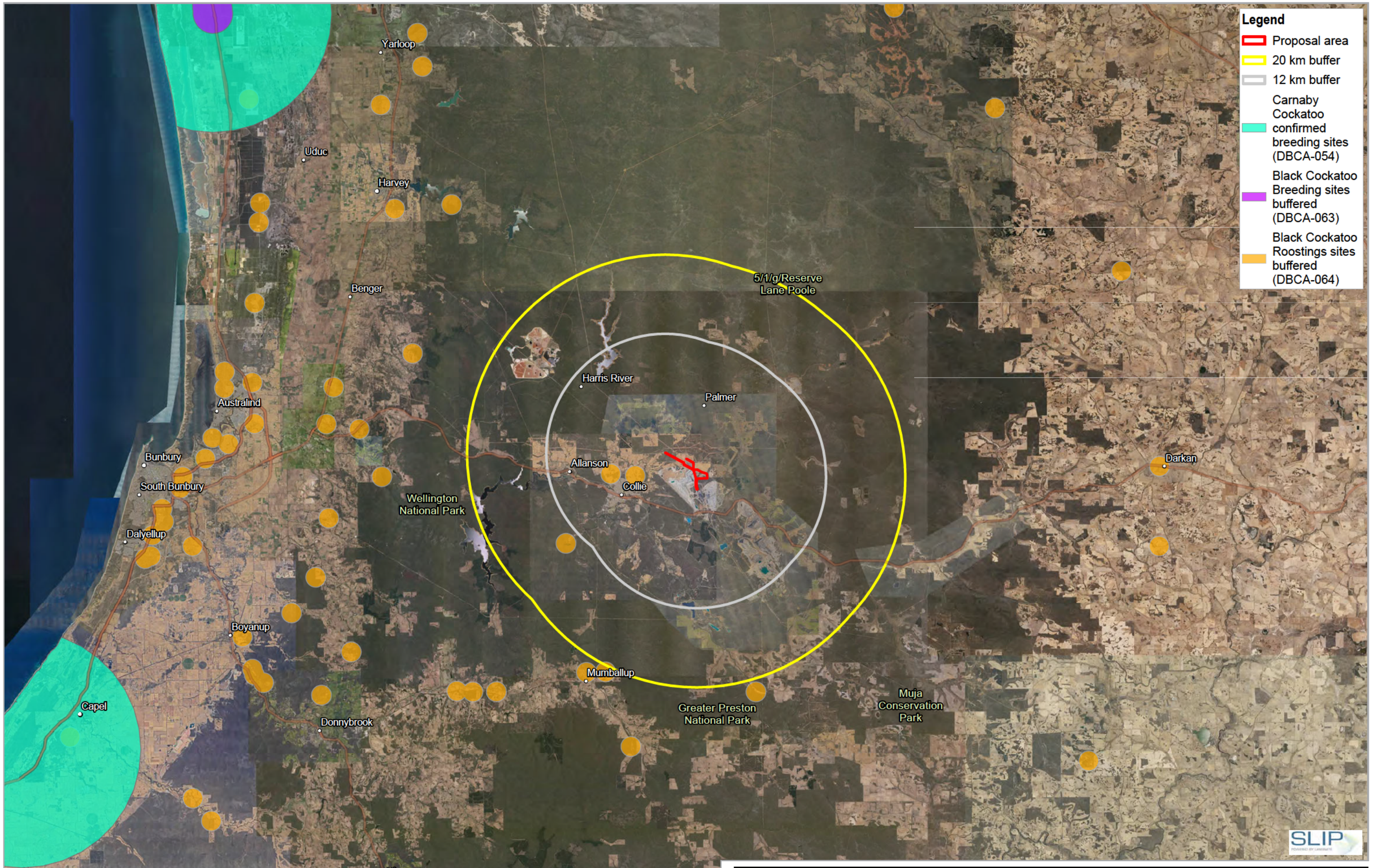
Black Cockatoo habitat & proposed native vegetation to be cleared

Project No. **12609060**
Revision No. **1**
Date **19/03/2024**

FIGURE 5

C:\Users\vdavies\OneDrive - GHD\Desktop\Greensteel WA GIS\GreenSteelWA_EPBCv2\MyProject74.aprx\Fauna habitat Figure 8 - 3 of 3
Print date: 19 Mar 2024 - 10:26

Data source: Hybrid Reference Layer: Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, Foursquare, METI/NASA, USGS WMS: Landgate: Aerial imagery, Roads, Cadastre; GHD: Proposal area; GSWA: Plant footprint; Onshore Environmental: Fauna habitat, Habitat trees. Created by: vdavies



Paper Size ISO A3

0 1 2 3 4 5

Kilometres

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

N

GHD

Green Steel of WA Pty Ltd
Collie Green Steel Mill

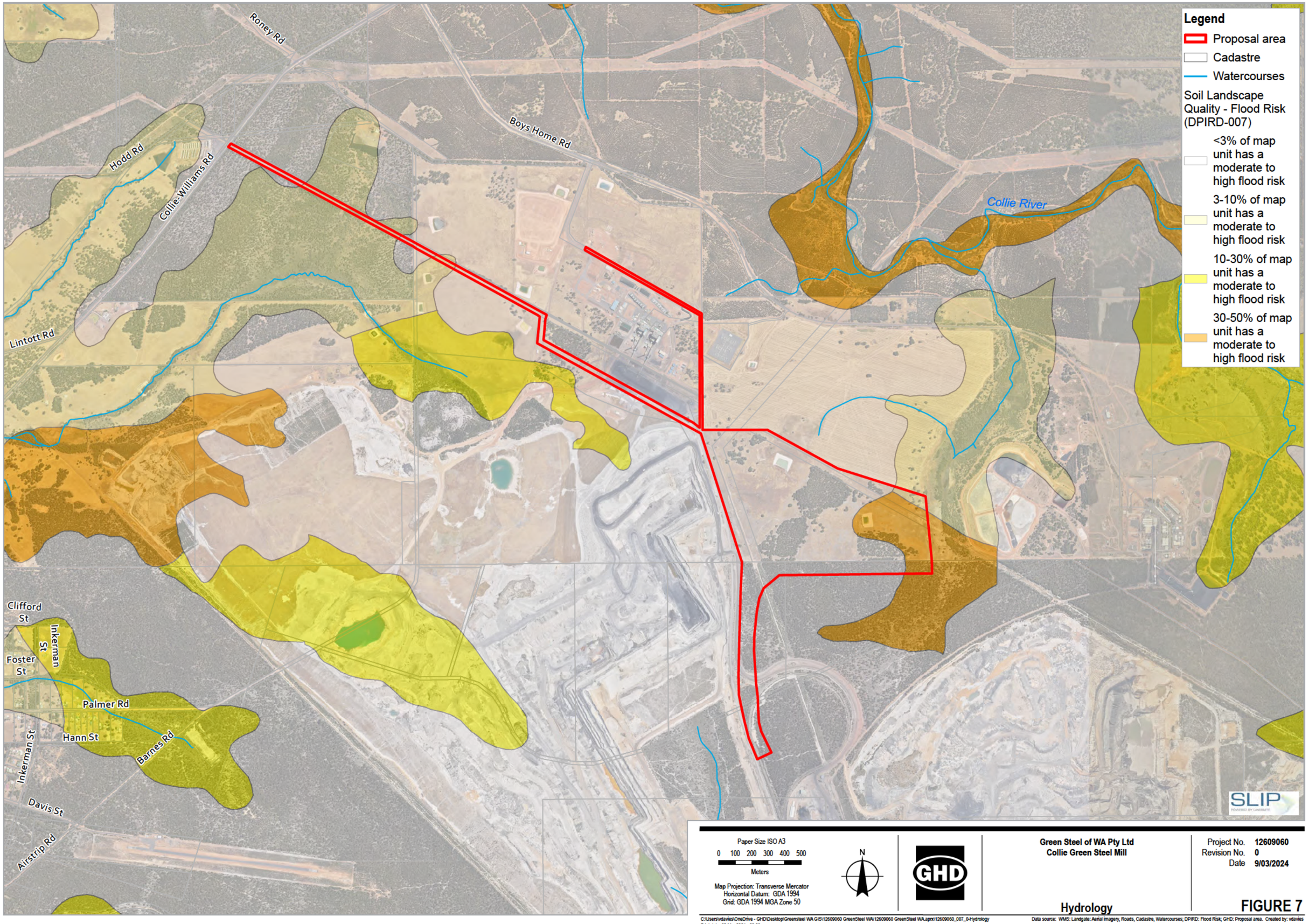
Black Cockatoo breeding & roosting habitat desktop assessment

Project No. **12609060**
Revision No. **0**
Date **9/03/2024**

FIGURE 6

C:\Users\vdavies\OneDrive - GHD\Desktop\Greensteel WA GIS\12609060 GreenSteel WA\12609060 GreenSteel WA.aprx\12609060_006_0-Black Cockatoo desktop
Print date: 09 Mar 2024 - 19:57

Data source: Hybrid Reference Layer: Esri, TomTom, Garmin, Foursquare, FAO, METI/NASA, USGS
WMS: Landgate: Aerial imagery, Locations; GHD: Proposal area, 10 km buffer, 20 km buffer; DBCA: 054, 063 and 064. Created by: vdavies



Paper Size ISO A3

0 100 200 300 400 500

Meters

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

N

GHD

Green Steel of WA Pty Ltd
Collie Green Steel Mill

Hydrology

Project No. **12609060**
Revision No. **0**
Date **9/03/2024**

FIGURE 7

C:\Users\wdavies\OneDrive - GHD\Desktop\Greensteel WA GIS\12609060 GreenSteel WA\12609060 GreenSteel WA.aprx\12609060_007_0-Hydrology
Print date: 09 Mar 2024 - 20:03

Data source: WMS: Landgate: Aerial imagery, Roads, Cadastre, Watercourses; DPIRD: Flood Risk; GHD: Proposal area. Created by: wdavies