

Southdown Magnetite Project

Referral of MS 816 Revised Proposal under s. 38 of the

EP Act

PART A: PROPONENT AND REFERRER INFORMATION AND PROPOSAL DESCRIPTION			
Referrer information			
Who is referring this proposal?		<input checked="" type="checkbox"/> Proponent <input type="checkbox"/> Decision-making authority <input type="checkbox"/> Community member/third party	
Name (print): Michael Everitt <i>Name of the person or organisation referring</i>		Signature 	
Position	Study Manager	Organisation	Grange Resources Limited
Email	Michael.everitt@grangesources.com.au	Phone	0429 300 773
Address	16 Altona Street		
	West Perth	Western Australia	6005
Date	25 January 2023		
Does the referrer request that the EPA treat any part of the proposal information in the referral as confidential? <i>Provide confidential information in a separate attachment.</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Does the referrer confirm that they consent to receive correspondence electronically?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Referral declaration for proponent and Authorised representative: I, Michael Everitt , declare that I am authorised to refer this proposal on behalf of Grange Resources Limited and further declare that the information contained in this form is true and not misleading. Date: 27 January 2023			
Proponent information			
Name of the proponent/s <i>Include Trading Name if relevant</i>	Grange Resources Limited		
Australian Company Number	80 009 132 405		
Pre-referral discussions			

<p>Have you had pre-referral discussions with the EPA (including the EPA Services of DWER)?</p> <p><i>If so, provide name, date, and overview of discussions.</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Pre-referral meetings were held with EPA Services of DWER in July 2021 and November 2022 to discuss the changes proposed for the Southdown Magnetite Project approved by MS 816 (Approved Proposal) and to determine the most likely path of assessment of these changes under the EP Act. Feedback was also sought on the scope and method of environmental investigations proposed. At the meeting in July 2021, EPA Services (Robert Hughes, Manager, South Branch; Natalie McAlpine, Principal Environmental Officer; Helen Butterworth, Principal Environmental Officer and Jessica Allen, Environmental Officer) advised that the proposed changes should be referred to the EPA as a Revised Proposal under Section 38 of the EP Act for assessment. EPA Services also advised that further feedback be sought from the Terrestrial Ecosystem Branch of EPA Services on flora and fauna survey methodologies before conducting the surveys to ensure they are sufficient and compliant with EPA requirements (to minimise risk of delay to the assessment process). Subsequently, the Terrestrial Ecosystem Branch reviewed and provided comment on survey methodologies that have informed Revised Proposal surveys and impact assessments.</p> <p>The meeting in November 2022 with EPA Services (Helen Butterworth, Principal Environmental Officer and Tracey Hassell, Manager, South Branch) provided an update on the MS 816 Revised Proposal and the imminent submission of a referral to the EPA.</p>
<p>Proposal information</p>	
<p>Proposal name</p>	<p>Southdown Magnetite Project MS 816 Revised Proposal</p>

What is the proposal?
(Include general description in the [Instructions and template: How to identify the content of a proposal](#))

The Revised Proposal preserves approvals contained in MS 816, whilst making the following additions and / or amendments to those approvals to allow for changes associated with a start-up project design including:

- revised mine plan and associated infrastructure layout changes including boundary changes resulting in a Revised Proposal Development Envelope (Mine Site) and associated indicative disturbance footprint;
- modification of the intersection of Gnowellen Road and South Coast Highway, sealing of Gnowellen Road and new access points from Gnowellen Road to link with indicative disturbance footprint;
- modified ore processing at mine site;
- minor realignment of the section of the slurry / return water pipelines connecting to the mine site within a defined development envelope;
- addition of a proposed slurry and return water pipelines alternative option at Chester Pass Road within a defined development envelope;
- addition of a new slurry emergency storage area, pump station and connecting pipelines within a defined development envelope;
- addition of new groundwater supply borefields (Manypeaks and Wellstead South) and associated infrastructure within defined development envelopes;
- addition of two options for pipelines along Shearer Road to connect the Wellstead South borefield to the mine site within a defined development envelope;
- addition of a new pipeline connecting the Manypeaks borefield to the mine site to be included within existing Approved Proposal slurry and return water pipelines' corridor;
- amending the water requirement limit currently allocated for the project from 4GL/a to 12 GL/a to align with the 12 GL/a allowed for in the MS 904 approval for the seawater desalination plant and all potential project water supply options;
- amending Condition 6-4 (Declared Rare Flora and Protection of Vegetation);
- amending Condition 8-1 of MS 816 (Acid waste rock management);
- deleting Condition 8B (Use of recycled water) and replacement with allowance to include multiple water sources including recycled water;
- adding ore dewatering, storage and ship loading facilities at Albany Port Berth 5 within a defined Development Envelope to facilitate transshipping from Berth 5;
- administrative change for replacement of figure showing Berth 7 approved footprint to be consistent with that approved under MS 846;
- amending the Approved Proposal's indicative disturbance footprint to encompass all individual footprint elements contained in MS 816 for the mine, slurry pipeline and port elements and additions outlined above; and
- amending the area (ha) of mine site remnant vegetation clearing to include all Approved and Revised Proposal elements.

*Note: The Revised Proposal has a lesser area (3ha) of native vegetation clearing than the Approved Proposal (Combined Extent).

<p>Have you provided electronic spatial data, maps, and figures in the appropriate format?</p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>What type of proposal is being referred?</p> <p><i>For significant amendment or derived proposal, provide the associated existing Ministerial statement number/s</i></p> <p><i>For a proposal under an assessed planning scheme, provide the scheme number and name</i></p>	<p><input type="checkbox"/> significant proposal. <i>Choose which type of significant proposal</i></p> <ul style="list-style-type: none"> <input type="checkbox"/> new proposal <input checked="" type="checkbox"/> significant amendment (proposal only) <input type="checkbox"/> significant amendment (conditions only) <input type="checkbox"/> significant amendment (proposal and conditions) <p><input type="checkbox"/> strategic proposal</p> <p><input type="checkbox"/> derived proposal</p> <p><input type="checkbox"/> proposals of a prescribed class</p> <p><input type="checkbox"/> proposal under an assessed planning scheme</p>
<p>Proposal content: Refer Southdown Magnetite Project MS 816 Revised Proposal Content Document, prepared by Grange Resources Limited in accordance with the Instructions and template: How to identify the content of a proposal for the type of proposal identified above.</p>	
<p>Alternatives</p>	<p>Refer to Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Referral Supporting Document (Doc No. SDN-DFS-ENV-APL-002) – Section 2.6 Revised Proposal Justification and Alternatives.</p>

PART B: ASSESSMENT OF ENVIRONMENTAL IMPACTS

Environmental factors

What are the likely significant environmental factors for this proposal?

- Benthic Communities and Habitat
- Coastal Processes
- Marine Environmental Quality
- Marine Fauna
- Flora and Vegetation
- Landforms
- Subterranean Fauna
- Terrestrial Environmental Quality
- Terrestrial Fauna
- Inland Waters
- Air Quality
- Greenhouse Gas Emissions
- Social Surroundings
- Human Health

For each of the environmental factors identified above, complete the following table, or provide the information in a supplementary report

Potential environmental impacts – for each environmental factor

1	EPA policy and guidance	Refer to Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Referral Supporting Document (Doc No. SDN-DFS-ENV-APL-002) for the significant environmental factors: <ul style="list-style-type: none"> • Section 6.2 Flora and Vegetation • Section 6.3 Terrestrial Fauna • Section 6.4 Inland Waters • Section 6.5 Social Surroundings • Section 6.6 Greenhouse Gas Emissions • Section 6.7 Air Quality ‘Other’ Environmental Factors have also been identified and addressed in the Supporting Document including: Subterranean Fauna (Refer Section 7.1), Marine Environmental Quality (Refer Section 7.2), Marine Fauna (Refer Section 7.3), and Terrestrial Environmental Quality (Refer Section 7.4).
2	Receiving environment	
3	Likely environmental impacts	
4	Application of the mitigation hierarchy	
5	Assessment and significance of residual impacts	
6	Likely environmental outcomes	

Holistic impact assessment

Refer Section 10 of the Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Referral Supporting Document (Doc No. SDN-DFS-ENV-APL-002).

Cumulative environmental impact assessment

Refer Section 11 of the Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Referral Supporting Document (Doc No. SDN-DFS-ENV-APL-002).

Consultation

Refer Section 4 of the Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Referral Supporting Document (Doc No. SDN-DFS-ENV-APL-002).

Supporting documents

Provide a list of the supporting documents

Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Referral Supporting Document (Doc No. SDN-DFS-ENV-APL-002) and its attachments including:

- Attachment 1: Southdown Joint Venture (2023). Southdown Magnetite Mine Pre-referral Stakeholder and Community Engagement Report.
- Attachment 2: Bamford Consulting Ecologists (2022). Southdown Magnetite Project Preliminary Environmental Impact Assessment of Project Revisions.
- Attachment 3: WRM (2022). Southdown Magnetite Project: Manypeaks and Wellstead South Borefields Aquatic Fauna Environmental Impact Assessment.
- Attachment 4: Rockwater Hydrogeological and Environmental Consultants (Rockwater) (2022). Southdown Magnetite Project, Manypeaks and Wellstead South Borefields, Assessment of impacts to inland waters and groundwater dependent ecosystems.
- Attachment 5: GHD (2022). Wellstead South Borefield Adaptive Groundwater Management Plan.
- Attachment 6: GHD (2022). Manypeaks Borefield Adaptive Groundwater Management Plan.
- Attachment 7: GHD (2022). Ministerial Statement Condition 8.1 Review.
- Attachment 8: GHD (2023). Noise assessment, Southdown Magnetite Project. (Mine site)
- Attachment 9: GHD (2023). Air Quality Assessment, Southdown Magnetite Project. (Mine site)
- Attachment 10: SLR (2022). Southdown Magnetite Project Airborne Noise Assessment – Landside Operations. (Albany Port and Emergency Slurry Storage Area)
- Attachment 11: SLR (2022). Southdown Magnetite Project Transshipment Operations Landside Air Quality Impact Assessment. (Albany Port)
- Attachment 12: SLR (2022). Southdown Magnetite Project Revised Proposal Stockpile Shed and Water Pump Station Landscape and Visual Impact Assessment. (Albany Port and Emergency Slurry Storage Area)
- Attachment 13: Rockwater (2022). Southdown Magnetite Project, Subterranean Fauna Assessment.
- Attachment 14: BMT (2022). Technical Note on Marine Environment.

Has the referrer provided survey information according to the [Instructions and Form: IBSA Data Packages](#) and/or the [Instructions and form: IMSA Data Packages](#)

Yes
 No

Data to be provided at a later stage.

Conclusion

Do you consider the proposal may have a significant effect on the environment?

The MS 816 Revised Proposal has the potential to have significant impact on the environment and the key environmental factors identified as listed above. With proposed avoidance and mitigation measures, it is predicted that there will be no significant residual impacts and the EPA’s environmental objectives for each of the key and other environmental factors will be met.

PART B: ASSESSMENT OF ENVIRONMENTAL IMPACTS FOR SIGNIFICANT AMENDMENTS ONLY

Type of significant amendment	<input checked="" type="checkbox"/> significant amendment to the approved proposal <input type="checkbox"/> significant amendment to the implementation conditions <input type="checkbox"/> significant amendment to both the proposal and the implementation conditions
Information of the approved proposal	Refer Section 2.3 of the Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Referral Supporting Document (Doc No. SDN-DFS-ENV-APL-002).
Combined effects of the approved proposal and significant amendment	Refer Section 2.4 of the Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Referral Supporting Document (Doc No. SDN-DFS-ENV-APL-002).
Analysis of existing implementation conditions	Refer Section 2.4.2 and Appendix 2 of the Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Referral Supporting Document (Doc No. SDN-DFS-ENV-APL-002).
Previous changes to the Proposal and or implementation conditions	Refer Section 1.2 of the Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Referral Supporting Document (Doc No. SDN-DFS-ENV-APL-002).
Compliance	The Southdown Magnetite Project approved by MS 816 has yet to commence. Annual Compliance Assessment Reports have been submitted as required by Condition 4.
Environmental Performance	The Southdown Magnetite Project approved by MS 816 has yet to commence.
Control of implementation of significant amendment	Control of implementation of the significant amendment would be through existing conditions of MS 816 and any revisions or additions made following assessment of this Revised Proposal.

PART C: OTHER APPROVALS AND REGULATION

Decision-making authorities and their approvals

Provide a table list of the decision-making authorities, associated legislation or agreement regulating the activity and the specific approval required. (Example table at the end of form)	Refer Section 3.4 of the Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Referral Supporting Document (Doc No. SDN-DFS-ENV-APL-002).
Provide a summary of the statutory decision-making processes you consider can mitigate the potential impacts of the proposal on the environment. (Note: this should be a summary of the information provided in Part B section 2.4).	Refer Section 3.4 of the Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Referral Supporting Document (Doc No. SDN-DFS-ENV-APL-002).

Tenure and Local Government approvals	
Location of proposal: a) street address, lot number, suburb, and nearest road intersection; or b) if remote, the nearest town and distance and direction from that town to the proposal site.	Mine site: Lots 555, 6833, 6842 South Coast Highway, near junction of Gnowellen Road, 90 KM east, north-east of Albany and part of Gnowellen Road.
Name of the Local Government Authority in which the proposal is located.	City of Albany
Is rezoning of any land required before the proposal can be implemented? If yes, please provide details.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
What is the current land use on the property, and the extent (area in hectares) of the property?	General agriculture, plantations, road reserves. For land areas, refer Table 2.3 of the Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Supporting Document (Doc No. SDN-DFS-ENV-APL-002).
Does the proponent have the legal access required for the implementation of all aspects of the proposal? <i>If yes, provide details of legal access authorisations / agreements / tenure.</i> <i>If no, what authorisations / agreements / tenure is required and from whom?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Refer Section 2.2 and Table 2.1 of the Southdown Magnetite Project Ministerial Statement 816 Revised Proposal Supporting Document (Doc No. SDN-DFS-ENV-APL-002).
Commonwealth Government approvals	
Does the proposal involve an action that may be or is a controlled action under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> (EPBC Act)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No The Southdown Magnetite Project has approval under the EPBC Act (2011/6053). There are elements of the MS 816 Revised Proposal that are not included in the existing EPBC Act approval. These will be referred as a separate action.
Has the proposed action been referred? If yes, when was it referred and what is the reference number (EPBC No.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Date: _____ EPBC No.: _____
If referred, has a decision been made on whether the proposed action is a controlled action? If 'yes', check the appropriate box and provide the decision in an attachment.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Decision – controlled action <input type="checkbox"/> Decision – not a controlled action
If the proposal is determined to be a controlled action, do you request that this proposal be assessed under a Bilateral Agreement or as an accredited assessment?	<input type="checkbox"/> Yes - Bilateral <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - Accredited

<p>Is approval required from other Commonwealth Government/s for any part of the proposal? <i>If yes, describe.</i></p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Approval:</p>
<p>Decision-making authority referrals <u>ONLY</u></p>	
<p>What approval/s, under your authority, are required for this proposal? <i>Please provide details.</i></p>	<p>N/A</p>