DRAFT SCOPING REPORT

Scoping and Environmental Impact Assessment for the Proposed Development of an independent 400/132kV Main Transmission Substation (MTS) and a 400 kV Loop-In-Loop-Out (LILO) from the MTS to an existing Eskom power line, as well as associated infrastructure; near Smithfield, within the Mohokare Local Municipality, Xhariep District Municipality, Free State.



Prepared by: Council for Scientific and Industrial Research (CSIR)



Prepared for: Scatec Africa (Pty) Ltd and Veroniva (Pty) Ltd

Scatec

27.00

PARTA: MAIN REPORT



SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT

for the

Proposed Development of an independent 400/132kV Main Transmission Substation (MTS) and a 400 kV Loop-In-Loop-Out (LILO) from the MTS to an existing Eskom power line, as well as associated infrastructure; near Smithfield, within the Mohokare Local Municipality, Xhariep District Municipality, Free State

DRAFT SCOPING REPORT

March 2024

Prepared for: Scatec Africa (Pty) Ltd and Veroniva (Pty) Ltd

Prepared by: Council for Scientific and Industrial Research (CSIR)

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Report Details

T:410.	Cooping and Environmental Impact Access	ment for the Dreneged Development of an independent	
Title:		ment for the Proposed Development of an independent	
	400/132kV Main Transmission Substation (MTS) and a 400 kV Loop-In-Loop-Out (LILO) from the MTS to an existing Eskom power line, as well as associated infrastructure; near Smithfield, within the		
	Mohokare Local Municipality, Xhariep District Municipality, Free State.		
Purpose of this report:	The purpose of this Draft Scoping Report is to:		
	Present the details of and the need for the proposed project.		
	ribbont the dotalle of and the need for the proposed project,		
	- Describe the anected environment at a making;		
	.	EIA Process being followed, including public consultation;	
	 Provide an overview of the potential positive and negative impacts of the proposed project on the environment; 		
		mitigate negative impacts and to enhance the positive	
	benefits of the proposed project (based		
	 Provide the Plan of Study for the EIA Phase for the proposed project. 		
	The Draft Scoping Report is now available to all Interested and/or Affected Parties (I&APs), Organs of		
	State and relevant stakeholders for a 30-day review period extending from 8 March 2024 to 10 April		
		s submitted during the 30-day review will be incorporated	
		addressed, as applicable and where relevant, and will be	
	included in the Final Scoping Report. The Final Scoping Report will be submitted to the National		
	Department of Forestry, Fisheries and the Environment (DFFE) for decision-making.		
Prepared for:	Scatec Africa (Pty) Ltd and Veroniva (Pty) Ltd	t	
Prepared by:	CSIR:		
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	within the Mohokare Local Municipality, Xhariep District Municipality, Free State. <u>Scoping Report</u> . CSIR		
	Report Number: CSIR/SPLA/SECO/ER/2024	/0005/B	

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INTRODUCTION AND PROJECT LOCALITY

Scatec Africa (Pty) Ltd (the project owner) with support from Veroniva (Pty) Ltd, are proposing to develop three Solar Photovoltaic (PV) and Battery Energy Storage System (BESS) Facilities, and associated Electricity Grid Infrastructure (EGI), near Smithfield within the Mohokare Local Municipality, Xhariep District Municipality, Free State (Figure A). The project is referred to as the "Biesjesvlei" Solar PV, BESS and EGI development.

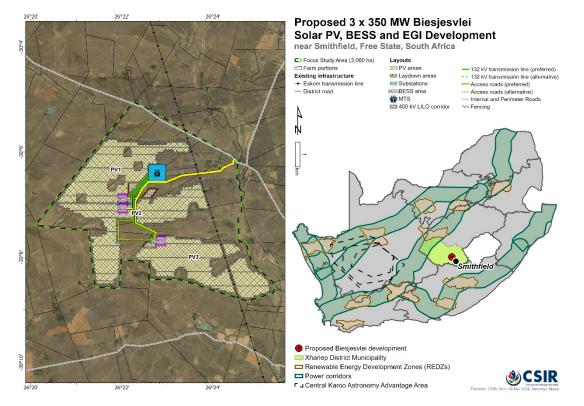


Figure A. Locality map for the proposed Biesjesvlei Solar PV1 to PV3; Biesjesvlei BESS 1 to 3; Biesjesvlei EGI 1 to 3; and Biesjesvlei MTS and LILO, near Smithfield in the Free State.

The proposed projects are not located within any of the Renewable Energy Development Zones (REDZs) that were gazetted in GN 114 on 16 February 2018; and GN 144 on 26 February 2021. The proposed projects are also not located within any of the Strategic Transmission Corridors that were gazetted in GN 113 on 16 February 2018; and GN 1637 on 24 December 2021.

Each solar PV facility will have a range of associated infrastructure and is proposed to connect to an existing 400 kV power line via dedicated 132 kV power lines, a proposed independent Main Transmission Substation (MTS) and a Loop-In-Loop-Out (LILO).

Each of the Solar PV Facilities would be its own project and would require its own, separate Environmental Authorisation (EA). The same applies to the BESS and EGI projects. Each project will have a specific Project Applicant. The following projects are being proposed (Figure B):

- <u>PROJECTS 1 TO 3</u>: The proposed development of three Solar PV Facilities and associated infrastructure (i.e. Biesjesvlei PV1 to Biesjesvlei PV3).
- **PROJECTS 4 TO 6**: The proposed development of three BESS and associated infrastructure (i.e. Biesjesvlei BESS 1 to Biesjesvlei BESS 3).
- PROJECTS 7 to 9: The proposed development of a 132 kV Overhead Power Line from each Biesjesvlei PV Facility to the proposed MTS, and associated infrastructure (i.e. Biesjesvlei EGI 1 to Biesjesvlei EGI 3).
- PROJECT 10: The proposed development of an independent 400/132kV MTS and a 400 kV LILO from the MTS to the existing Eskom power line, as well as associated infrastructure (i.e. Biesjesvlei MTS and LILO).

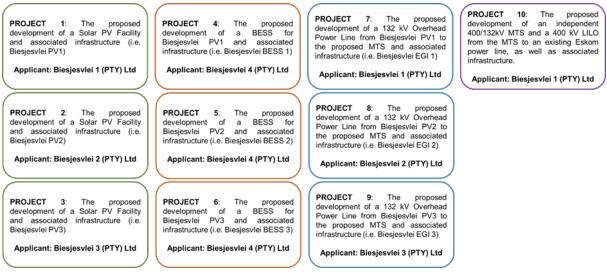


Figure B: Breakdown of the projects that comprise the Biesjesvlei Solar PV, BESS, EGI, MTS and LILO Development.

REPORT COMBINATION AND AVAILABILITY

A request to combine the Environmental Assessment reporting, for Projects 1 to 9, in terms of Regulation 11 of the 2014 National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) Environmental Impact Assessment (EIA) Regulations (as amended), and the issuing of multiple EAs in terms of Regulations 25 (1) and (2) was discussed with the National Department of Forestry, Fisheries and the Environment (DFFE) at the Pre-Application Meeting on 6 October 2023. A letter was submitted to the DFFE to request for the combination and issuing of multiple EAs in October 2023. The DFFE approved the request for combination and multiple EAs (should they be granted) in a letter dated 1 November 2023, sent via email on 6 November 2023.

The report for Project 10 (Biesjesvlei MTS and LILO) **[i.e. this report]** is not included in the combined reporting because only one EA is required for this project. Hence, one standalone report has compiled for Project 10 **[i.e. this report]**.

The reporting structure indicated in Figure C is being used.

In summary, separate combined reports have been compiled for each PV Facility, BESS and EGI cluster (i.e. Projects 1 to 9) and a separate Scoping Report has been compiled for the MTS and LILO (i.e. Project 10) **[i.e. this report]**. Overall, four Scoping Reports have been compiled for the proposed development, and it is proposed that 10 separate EAs will be issued (should they be granted).

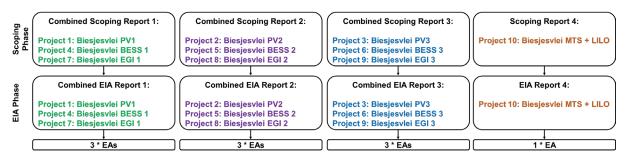


Figure C: Environmental Assessment Reporting Structure for the Biesjesvlei Solar PV, BESS, EGI, MTS and LILO Development.

This Scoping Report only addresses the Biesjesvlei MTS and LILO (Project 10).

This Scoping Report is being released to all Interested and/or Affected Parties (I&APs), Organs of State and relevant stakeholders for a 30-day review period. All comments received during the 30-day review will be incorporated into a detailed Comments and Responses Report, and addressed, as applicable and where relevant, and will be included with the Final Scoping Report. The Final Scoping Report will thereafter be submitted to the DFFE for consideration.

An integrated Public Participation Process is being undertaken for the proposed projects (i.e. Projects 1 to 10).

COMPETENT AUTHORITY AND APPLICANT

The Competent Authority for the proposed project is the National DFFE as an agreement has been reached in terms of Section 24C(3)(b) of NEMA between the Free State Department of Small Business Development, Tourism and Environmental Affairs (DESTEA) and DFFE to confirm that the proposed project can be decided upon by the DFFE. A copy of this agreement is included in Appendix C.8 of the Scoping Report.

The Project Applicant for the proposed project is Biesjesvlei 1 (Pty) Ltd.

NEED FOR THE EIA

The proposed project triggers the need for an EA in terms of the 2014 NEMA EIA Regulations (as amended) published in GN R326, R327, R325 and R324 and further amended on 11 June 2021 in GN 517; and on 3 March 2022 in GN 1816. Chapter 4 of the Scoping Report contains a detailed list of activities, which may be triggered by the project and the various project components and thus forms part of this Scoping and EIA Process. Listed below is the key listed activity triggered for the project (Table A).

Table A. Key Listed Activity

Project	Listing Notice, Listed Activity and Description
Project 10: Biesjesvlei MTS	GN R325 (Listing Notice 2), Activity 9: The development of
and LILO and associated	facilities or infrastructure for the transmission and distribution of
infrastructure	electricity with a capacity of 275 kilovolts or more, outside an
	urban area or industrial complex excluding the development of
	bypass infrastructure for the transmission and distribution of
	electricity where such bypass infrastructure is (a) temporarily
	required to allow for maintenance of existing infrastructure; (b) 2
	kilometres or shorter in length; (c) within an existing transmission
	line servitude; and (d) will be removed within 18 months of the
	commencement of development.

The purpose of the Scoping and EIA Process is to identify, assess and report on any potential impacts the proposed project, if implemented, may have on the receiving environment. The Scoping and EIA therefore needs to show the Competent Authority and the Project Applicant what the consequences of their choices will be in terms of impacts on the biophysical and socioeconomic environment and how such impacts can be, as far as possible, enhanced or mitigated and managed as the case may be.

PROJECT EIA TEAM

In accordance with Regulation 12 (1) of the 2014 NEMA EIA Regulations (as amended), the Council for Scientific and Industrial Research (CSIR) has been appointed by the Project Developer to undertake the required Scoping and EIA Process in order to determine the potential biophysical, social and economic impacts associated with undertaking the proposed development. The project team and the relevant specialists are indicated in Table B below.

NAME	ORGANISATION	ROLE/STUDY TO BE UNDERTAKEN
Environmental Management Services (CS	IR)	
Paul Lochner (<i>Registered EAP</i> (2019/745))	CSIR	EAP, Technical Advisor and Quality Assurance
Rohaida Abed (<i>Pr.Sci.Nat.; Registered</i> EAP (2021/4067))	CSIR	EAP and Project Manager
Helen Antonopoulos	CSIR	Project Officer
Suvasha Ramcharan	CSIR	Project Officer
Phindile Mthembu	CSIR	Project Officer
Luanita Snyman van der Walt (Pr.Sci.Nat.)	CSIR	GIS Specialist
Lizande Kellerman (Pr.Sci.Nat.)	CSIR	Public Participation Specialist
Specialists		
Johann Lanz (<i>Pr.Sci.Nat.</i>)	Private	Agriculture and Soils Compliance Statement
Corné Niemandt <i>(Pr.Sci.Nat.)</i> Samuel Laurence <i>(Pr.Sci.Nat.)</i>	Enviro-Insight cc	Terrestrial Biodiversity Assessment, Terrestrial Plant Species Compliance Statement, and Terrestrial Animal Species Compliance Statement
Russell Tate (Pr.Sci.Nat.)	Tate Environmental Specialist Services (sub-contracted by Enviro-Insight)	Aquatic Biodiversity and Species Assessment
Samuel Laurence (Pr.Sci.Nat.)	Enviro-Insight cc	Avifauna Impact Assessment
Quinton Lawson (SACAP, 3686) Bernard Oberholzer (SACLAP, 87018)	QARC and BOLA	Visual Impact Assessment
Dr Jayson Orton (APHP: Member 43; ASAPA CRM Section: Member 233)	ASHA Consulting (Pty) Ltd	Heritage Impact Assessment (Archaeology and Cultural Landscape)
Dr John Almond (PSSA and APHP Member)	Natura Viva cc	Palaeontology
Dale Barrow (<i>Pr.Sci.Nat.</i>) Hardy Luttig Louis Jonk (<i>Pr.Sci.Nat.</i>) Julian Conrad	GEOSS South Africa (PTY) Ltd	Geotechnical Letter of Professional Opinion
Rohaida Abed (<i>Pr.Sci.Nat.; Registered EAP</i> (2021/4067)) Lizande Kellerman (<i>Pr.Sci.Nat.</i>) Willan Adonis ¹	CSIR	Civil Aviation Site Sensitivity Verification

The specialist assessments will be detailed during the EIA Phase and will comply with Appendix 6 of the 2014 NEMA EIA Regulations (as amended), or the Assessment Protocols published in GN 320 on March 2020; or the Assessment Protocols published in GN 1150 on October 2020. However, the Geotechnical Letter of Opinion serves as a technical report and the aforementioned legislation will thus not be applicable.

STUDY AREA

The study area or preferred site for all the proposed Biesjesvlei Solar PV Facilities, BESS, 132 kV power lines, MTS and LILO and associated infrastructure (i.e., Projects 1 to 10) covers approximately 3 060 hectares (ha). These farm properties are listed in Table C.

¹ This staff member resigned from the CSIR at the end of December 2023.

Table C: Farm portions and SG codes for the Study Area

FARM PORTION	SG CODE
Farm Benoni 534	F0310000000053400000
Remaining Extent of Farm Biesjespoort 521	F0310000000052100000
Farm Biesjesvlei 372	F0310000000037200000
Farm Klein Badfontein 369	F0310000000036900000
Farm Modderkuil 396	F0310000000039600000
Farm Paalland 373	F0310000000037300000
Remaining Extent of Farm Pompoenfontein 118	F0310000000011800000
Portion 1 of Farm Pompoenfontein 118	F0310000000011800001
Farm Ronde Bult 408	F0310000000040800000
Farm Salpetervlei 756	F0310000000075600000
Portion 1 of Farm Schoemanskraal 34	F031000000003400001

As part of the Scoping and EIA Process, the full extent of the study area has been assessed by the specialists in order to identify environmental sensitivities and no-go areas. The preferred site serves as the study area for this Scoping and EIA Process. Therefore, the terms "site" and "study area" are used synonymously in the Scoping Report.

PROJECT DESCRIPTION

A summary of the key components of the proposed Biesjesvlei MTS and LILO (Project 10) and technical information is described in Table D below.

Table D. Summary of the components and associated infrastructure for Biesjesvlei MTS and LILO (Project 10)

Component	Description	
Independent Main Transmission Substation (MTS)	 Footprint: Approximately 36 ha 	
	 Height: 15 m 	
	 Capacity: 400/132 kV 	
	 Associated infrastructure includes busbars, feeder bays, transformers and transformer bays. 	
Building Infrastructure	Operational and Maintenance (O&M) Building and	
	Offices (approximately 500 m ² in area, and 7 m in height)	
Fencing around the MTS Perimeter	 <u>Type</u>: Palisade or mesh or fully electrified 	
	 <u>Security</u>: Access points will be managed and monitored by an appointed security service provider. 	

Description
Height: Between 2 - 3 m
 <u>Details</u>: New internal gravel roads will need to be established within the fenced off area of the MTS.
 <u>Width</u>: Approximately 4 m
 The LILO will be routed above ground from the existing Eskom Beta-Delphi 400 kV Overhead Power Line to the proposed MTS.
<u>Height</u> : Up to 37 m
 <u>Length</u>: Approximately 1 km
• <u>Servitude</u> : 40 m wide
Pylon specifications:
• <u>Type</u> : Lattice structures.
• <u>Tower</u> : Self-supporting and Angle Strain.
 <u>Foundation</u>: The size of the footprint area for the base of the tower foundation will range to approximately 100 m². The minimum working area required around a structure position is 20 m x 20 m.
○ <u>Span Length</u> : 200 m – 375 m
 <u>Details</u>: A new gravel service road will need to be established below the LILO. <u>Width</u>: Approximately 4 m
 The study area can be accessed via various existing main roads and gravel roads. Specifically, three access route options are being considered: Access Route Option A, Option B and Option C, which are routed along the N6; S1262; and S119. Options A, B and C have different access points off the S119. Direct access to the proposed projects will be taken from the S119 along an existing farm access point, and thereafter new access roads will be developed within the study area, where they do not align with existing roads, or existing roads will be used where possible. Existing roads will be used as far as practically achievable.

Component I	Description
	 <u>New Access Roads</u>: Where new access roads are
	required within the study area, these will be 4 - 8 m wide.
•	 <u>Existing Access Roads</u>: Where existing roads are used within the study area, they may need to be upgraded, as described below.
	 The Traffic Specialist² has noted the following based on preliminary investigations: The N6, S1262, and S119 are suitable and do not need to be upgraded.
	 The N6, S1262, and S119 are of a sufficient width to accommodate truck movement, however widening by more than 4 m or more than 6 m may be required at localised positions (i.e. intersections). Specifically, road widening by approximately 9 m will be required at the S1262 and S119 intersection.
	 Existing internal farm roads (local farm roads within the farm property boundaries) will need to be upgraded to accommodate the abnormal loads as required. This includes the following: Intersection S119 and Access Route Option A: Road widening by approximately 14 m (at the widest point) will be required. Intersection S119 and Access Route Option B: Road widening by approximately 7 m (at the widest point) will be required. Intersection S119 and Access Route Option C: Road widening by approximately 14 m (at the widest point) will be required. Intersection S119 and Access Route Option C: Road widening by approximately 14 m (at the widest point) will be required. An existing bridge on the S119 will also need to be inspected by a Structural Engineer. The existing bridge on the existing internal farm road leading from Access Route Option A will most likely need to

² The Traffic Impact Assessment is being undertaken for the Biesjesvlei PV (Projects 1 to 3) and Biesjesvlei BESS (Projects 4 to 6). Traffic related information will still inform the EGI projects.

Component	Description
	the turns that the abnormal loads need to navigate. Additional detail will be provided in the EIA Phase.
Storm water channels	 Details to be confirmed once the Engineering, Procurement and Construction (EPC) contractor has been selected and the design is finalised. Where necessary, a detailed storm water management plan would need to be developed.
Work area during the construction phase (i.e. laydown area)	Footprint: Up to 13 ha
Water Requirements	 Approximately 8 000 m³ to 12 000 m³ of water is estimated to be required per year for the construction phase.
	 Approximately 10 000 m³ to 16 000 m³ of water is estimated to be required per year for the operational phase.
	 Water requirements during the decommissioning phase are expected to be the same as the construction phase.
	 Potential sources: Existing boreholes on site or from the Local Municipality via trucks.
Construction Period	 12 – 24 months
Operational Period	 Once the commercial operation date is achieved, the proposed EGI will transmit electricity for a minimum period of 20 to 30 years.

POTENTIAL ISSUES AND HIGH-LEVEL IMPACT ASSESSMENT

Potential key preliminary issues and impacts associated with the proposed project, and preliminary mitigation measures have been identified by the specialist team for the Scoping Phase. This is based on an evaluation of the status quo of the receiving environment, by the specialists, either through desktop assessments or site investigations, where relevant and required. The impact ratings and mitigation measures are high-level for the purposes of Scoping, and, where necessary, will be confirmed and detailed during the EIA Phase.

These preliminary key potential issues and direct impacts are summarised in Table E below and are included in Chapter 6 of this Scoping Report. Additional issues may be raised during the Scoping Phase, which could potentially be assessed during the EIA Phase. The Terms of Reference for the various Specialist Assessments and Inputs are included in Chapter 7 of this Scoping Report. At the Scoping Phase, based on the preliminary impacts described below, there are no negative impacts that are rated as Very High significance after mitigation. Overall, it can be concluded that the effect of potential impacts can be limited or reduced to acceptable levels through avoidance, minimisation and the implementation of appropriate mitigation measures and management actions during the construction, operational and decommissioning phases.

Table E. Summary of Issues to be addressed during the EIA Phase as part of the Specialist Assessments / Inputs³.

Specialist Assessment / Input	Key Issues / Impacts to be addressed in the EIA Phase	
	Construction, Operational and Decommissioning Phases:	
	 Loss of agricultural potential by occupation of land; 	
	 Loss of agricultural potential by soil degradation; 	
Agriculture	 Loss of agricultural potential by dust generation; 	
	 Increased financial security for farming operations (<i>positive impact</i>); and 	
	 Improved security against stock theft and other crime due to the presence of security infrastructure and security 	
	personnel (<i>positive impact</i>).	
	Construction Phase:	
	 Habitat loss and fragmentation. Loss of protected species: 	
	 Loss of protected species; Increased alien invasive species; 	
	 Increased anen invasive species, Increased erosion and soil compaction; and 	
	 Littering and general pollution. 	
Terrestrial Biodiversity and		
Species (including Animal	Operational Phase:	
and Plant Species)	 Increased alien invasive species. 	
. ,	 Loss of species composition and diversity; and 	
	Littering and general pollution.	
	Decommissioning Phase:	
	 Loss of habitat; and 	
	 Increased alien invasive species. 	
	Construction, Operational and Decommissioning Phases:	
Aquatic Biodiversity and	 Habitat Quality Degradation; 	
Species	 Water Quality Degradation; and 	
	Aquatic Habitat Connectivity Loss.	

³ Impacts / issues in the table are all classified as negative, except where specified as positive.

Specialist Assessment / Input	Key Issues / Impacts to be addressed in the EIA Phase
	 Construction Phase: Disturbance of foraging and breeding behaviours of birds due to noise, dust and lighting; and Loss of habitat due to clearing, trenching, alteration and exclusion from previously accessible habitats. Operational Phase:
	 Continued disturbance due to operational activities (use of vehicles, lights etc.);
	 Loss of habitat due to altered and excluded habitats and threat of fire;
Avifauna	 Direct mortality from electrocution and collision with infrastructure (e.g. fences, overhead power lines); and Attraction to the facility exacerbating potential impacts.
	Decommissioning Phase:
	 Continued disturbance due to decommissioning activities (use of vehicles, lights etc.);
	 Habitat loss reclamation from rehabilitation activities (positive impact); and
	 Removal of power lines to promote safe passage (lowering collision risk) through the site and avoiding attraction by birds perching and nesting (<i>positive impact</i>).
	Construction Phase:
	 Potential effect of dust and noise from trucks and construction machinery during the construction period, and the effect of this on nearby farmsteads and visitors to the area; and
	 Potential visual effect of haul roads, access roads, stockpiles and construction camps in the visually exposed landscape.
Visual	Operational Phase:
	 Potential visual intrusion of the MTS, LILO and associated infrastructure on receptors; and
	 Potential visual impact of an industrial type of activity on the pastoral / rural character and sense of place of the area.
	Decommissioning Phase:
	 Potential visual effect of any remaining structures, platforms and disused roads on the landscape.

Specialist Assessment / Input	Key Issues / Impacts to be addressed in the EIA Phase
Heritage (including Archaeology and Cultural Landscape)	 Construction Phase: Damage or destruction of archaeological materials; Damage or destruction of graves; Damage to built heritage resources; and Intrusion of the power line, MTS, equipment and all associated infrastructure into the landscape. Operational and Decommissioning Phases:
	 Intrusion of the power line, MTS, equipment and all associated infrastructure into the landscape.
Palaeontology	Note that a palaeontological impact assessment is not required. Refer to the Palaeontology Site Sensitivity Verification (SSV) in Appendix E.7 of this Scoping Report for additional information on the palaeontology within the study area, as well as feedback on the motivation for no further palaeontology assessments being required for the proposed projects.
Geotechnical	 Construction Phase: Displacement of geologic material. Construction, Operational and Decommissioning Phases: Contamination of subsoils and loss of topsoil. Operational and Decommissioning Phases: Intersected upperture logid upperture logid upperture logid upperture logid upperture logid.
Civil Aviation	 Increased unnatural hard surfaces yielding increased runoff, potentially increasing erosion. Note that there are no impacts with respect to Civil Aviation as confirmed through the Site Sensitivity Verification included in Appendix E.9 of the Scoping Report.