

Theme	Factor and Objective	Environmental values and sensitives	Pre-referral Screening Questions					Justification	Information Source	
			Q1	Q2	Q3	Q4	Q5			
			Yes	No	Uncertain	N/A				
LAND	LANDFORMS Objective: Conserve the variety and integrity of distinctive physical landforms.	NR Maps Landform data not available for the area. Land systems for the area include sandstone hills, desert sandplains, sandstone hills, desert dune fields	Yes	X				There are no distinctive natural physical landforms of cultural, ecological, or social importance within the Project Area which would be significantly impacted on by the Project because they are being avoided. More generally since the project is over a large area the opportunity to refine the area of interest. Refer to figure.	https://nrmaps.nt.gov.au/nrmaps.html	
			No		x	x	x			x
			Uncertain							
			N/A							
	TERRESTRIAL ENVIRONMENTAL QUALITY Objective: Protect the quality and integrity of land and soils so that environmental values are supported and maintained.	The site is primarily dominated by desert dune fields, specifically the Redsan and land systems with level to undulating sandplains and dunes composed of red sands	Yes		x			Soil quality may be significantly impacted through land clearing and subsequent erosion. Potential contamination through leaks of hazardous materials from batteries, transformers or other infrastructure installed at the Project site or from vehicles.	https://ntepa.nt.gov.au/_data/assets/pdf_file/0003/1099290/Chapter-04-Terrestrial-Environmental-Quality.pdf	
			No							
			Uncertain							
			N/A							
	TERRESTRIAL ECOSYSTEMS Objective: Protect terrestrial habitats to maintain environmental values including biodiversity, ecological integrity and ecological functioning.	Presence of native and threatened flora and fauna species and their habitat, including EPBC listed migratory species. Lake woods within proximity to Project is a Site of Conservational Significance.	Yes		x			Threatened species, and potentially sensitive and significant vegetation and habitat will be impacted by vegetation clearing of around 49,300 ha for the Project.	https://storage.googleapis.com/files-au-climate/climate-au/p/prj2dc7ee9d19196e83e0742/page/Onshore_Wind_Farm_Guidance_May_2024.pdf	
No										
Uncertain										
N/A										
WATER	HYDROLOGICAL PROCESSES Objective: Protect the hydrological regimes of groundwater and surface water so that environmental values including ecological health, land uses and the welfare and amenity of people are maintained.	Aquifers: Fractured and Karstic Rock and Fractured and Weathered Rock. Ephemeral waterways within Project Area that direct water flow after heavy rains.	Yes		x			Project will draw on ground water from boreholes for construction and operation. Direct disturbance from vegetation clearing, construction and operations will result in alteration of hydrological flows. However, establishment of the railway within the land parcel has already disturbed the waterways and water flow within the site.	https://nrmaps.nt.gov.au/nrmaps.html	
			No							
			Uncertain							
			N/A							
	INLAND WATER ENVIRONMENTAL QUALITY Objective: Protect the quality	Groundwater and surfacewater quality and the biophysical values that they support.	Yes					Due to the ephemeral nature of the waterways within the SDE and project design, the mitigation		
			No		x	x	x			x
			Uncertain							

WA	of groundwater and surface water so that environmental values including ecological health, land uses and the welfare and amenity of people are maintained.		N/A					measures that will be implemented for the Terrestrial environmental quality factor will also adequately prevent impacts to inland water environmental quality.	https://nrmaps.nt.gov.au/nrmaps.html	
	AQUATIC ECOSYSTEMS Objective: Protect aquatic habitats to maintain environmental values including biodiversity, ecological integrity and ecological functioning.	There are no known aquatic ecosystems or permanent water sources within the Project Area.	Yes No Uncertain N/A		x	x	x	x	Due to the absence of permanent water sources within the Project area it is unlikely aquatic ecosystems occur within the Project Area.	https://nrmaps.nt.gov.au/nrmaps.html https://ntepa.nt.gov.au/_data/assets/pdf_file/0007/1099294/Chapter-08-Aquatic-Ecosystems.pdf
SEA	COASTAL PROCESSES Objective: Protect the geophysical and hydrological processes that shape coastal morphology so that the environmental values of the coast are maintained.	Nil	Yes No Uncertain N/A		x	x	x	x	No coastal features within Project Area	
	MARINE ENVIRONMENTAL QUALITY Objective: Protect the quality and productivity of water, sediment and biota so that environmental values are maintained.	Nil	Yes No Uncertain N/A		x	x	x	x	No coastal features within Project Area	
	MARINE ECOSYSTEMS Objective: Protect marine habitats to maintain environmental values including biodiversity, ecological integrity and ecological functioning.	Nil	Yes No Uncertain N/A		x	x	x	x	No coastal features within Project Area	
	AIR QUALITY Objective: Protect air quality and minimise emissions and	Sensitive receptors in the area: Powell Creek Outstation, Jangirulu, Namerinni, Muckaty and Helen Springs, Lake Woods, Stuart Highway	Yes No Uncertain		x	x	x	x	Dust and exhaust emissions during construction are likely to occur however these impacts will occur	

	population.	Namerinni, Muckaty and Helen Springs	N/A					impact on human health due to the distances of sensitive receptors from the Project Area. Any potential impacts to people as a result of noise, dust, and odor will not be in the category of harmful impacts, and as such, have been considered under the Community and Economy Factor above.	
--	-------------	--------------------------------------	-----	--	--	--	--	--	--