



Electromagnetic Interference (EMI) Assessment

Mid-West Wind Farm

Mid-West Wind Farm Pty Ltd

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SLR Project No.: 675.072296.00007

SLR Report No.: 675.072296.14

11 June 2026

Revision: 4.1

Revision Record

Revision	Date	Prepared By	Checked By	Authorised By
1.0	21 March 2024	A Gibson	(preliminary unchecked)	A Gibson
2.0	31 January 2025	A Gibson	P Hayman	A Gibson
3.0	28 November 2025	A Gibson	P Hayman	A Gibson
4.0	14 May 2026	A Gibson	P Hayman	A Gibson
4.1	11 June 2026	A Gibson	P Hayman	G Abolis

Basis of Report

This report has been prepared by SLR Consulting Australia (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Mid-West Wind Farm Pty Ltd (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.



Executive Summary

The Mid-West Wind Farm is being developed within a land area of 16,498 hectares, approximately 50 km east of Geraldton, Western Australia within the City of Greater Geraldton. This report outlines the activities undertaken by SLR Consulting when completing the assessment of the proposed Mid-West Wind Farm's electro-magnetic effects and its potential for interference with existing radiocommunications infrastructure. In the absence of any relevant guidelines being published by Western Australian Government agencies, the assessment has been completed in accordance with the National Wind Farm Development Guidelines – Draft (EPHC 2010).

The assessment identifies the locations of existing radiocommunications infrastructure and through consultation activities with stakeholders, also identifies those stakeholder services that are potentially affected. The assessment draws in information available from publicly accessible databases from the Australian Media and Communications Authority (ACMA) and the licensees of radiocommunications infrastructure in the vicinity of the Project area.

The assessment found that no significant impacts are anticipated. Several wind turbines require micro-siting to mitigate signal degradation due to potential interference with various services. These are summarized in Table 1. The full list of stakeholders consulted on the Project and their feedback received is provided in Appendix C.

Table 1. Summary of affected services and mitigations, following stakeholder consultation

Service Type	Responsible Operator	Potential Impact	Mitigation
Point-to-Point Communications Links (incl. broadband internet data links)	Telstra	Reduction in cellular data/voice signal quality and/or strength	Micro-siting of up to four wind turbines is required to mitigate signal interference. Consultation is ongoing.
	Bureau of Meteorology	Interference with multiple flooding warning network (FWN) fixed links	Micro-siting of up to 12 wind turbines required. Consultation is ongoing.
Meteorological Radar	Bureau of Meteorology	Reduction in precision for the Geraldton weather radar due to scattering effects from WTGs	Consultation is ongoing.

Following the lodgement of the Project's Development Application, further consultation with affected stakeholders will be undertaken to finalise the mutually agreed mitigations (if required) on the Project to alleviate the potential for EMI with existing radiocommunications services. This work will be guided by the mitigation strategy included in this report.



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Acronyms and Abbreviations

ACMA	Australian Communications and Media Authority
ARQZWA	Australian Radio Quiet Zone, Western Australia
CSIRO	Commonwealth Scientific and Industrial Research Organisation
EMC	Electromagnetic Compatibility
EMF	Electromagnetic Field
EMI	Electromagnetic Interference
EPHC	Environment Protection and Heritage Council
IEC	International Electrotechnical Commission
RFNSA	Radio Frequency National Site Archive
SFZ	Second Fresnel Zone
SWIS	South West Interconnected System
UHK	Ultra High Frequency
VHF	Very High Frequency
WTG	Wind Turbine Generator



1.0 Introduction

Mid West Wind Farm Pty Ltd is proposing to develop the Mid West Wind Farm (the Project) within a land development area of 16,498 hectares, approximately 50 km east of Geraldton, Western Australia within the Local Government Authorities of the City of Greater Geraldton. To provide regional context, a wider regional study area has been considered during the impact assessment which also extends to Shire of Mingenew and Shire of Irwin.

The Project will involve the construction of up to 98 wind turbine generators (WTGs) with a generation capacity up to 700 MW supplemented by a battery energy storage system (BESS) with a storage capacity of 4,200 MWh and nominal rating of 700 MW plus associated infrastructure (see Figure 1). The Project will be developed across land tenure comprising freehold properties and road reserve. Total ground disturbance for the Project will be approximately 730 ha (the TGD area), with minimal clearing of native vegetation required.

The Project will connect into the transmission line owned and operated by Western Power and connected to the South West Interconnected System (SWIS) from the Project's collector substation. The WTGs nominally selected for the Project are the EnVentus V172-7.2 model. This model range includes a new modular nacelle design that allows a range of models to be manufactured using the same base componentry, thereby reducing cost. The V172-7.2 model has the following technical features relevant to the environmental and social impact studies:

- Standard rated power = 7,200 kW
- Cut-in wind speed = 3 m/s
- Wind class = IEC S (user defined)
- Rotor diameter = 172 m (approx. blade length = 84 m)
- Rotor swept area = 23,235 m²
- Hub height (above ground) = 150 m (IEC S)
- Maximum sound power level = 106.9 dB (A).

The WTG foundation design will be based on local geotechnical and terrain characteristics. Concrete supply will be obtained from an onsite concrete batching plant. To facilitate WTG erection and maintenance, a nominal hard stand area will be required at each turbine location (for construction and major maintenance) of 65 m x 70m.

One substation comprising 3-phase 33/330 kV step-up transformers will be included for connection to local networks. High voltage electrical collector cabling from each turbine to the substation will all be underground, 33 kV nominal. The BESS will also be connected to the substation via high voltage cabling. Other electrical infrastructure will include Static Synchronous Compensators (STATCOMs).

The Project infrastructure will be constructed over a 30-month period, with construction aiming to commence 2028. Construction workforce is estimated to be up to 300 persons during the peak of construction, with the workforce predominately coming from the Mid West region. Operational workforce is expected to include 15 full time staff throughout the 25+ year operational life of the Project.

The Port of Geraldton is a major transport hub and will be the landing point for any large infrastructure e.g. turbine blades and transformers. Access to the DE is provided by the local road network from Casuarinas Road, Kiely Road and Nangetty-Walkaway Road. These local roads connect to the regional arterial network, the Brand Highway and Geraldton-Mount Magnet Road. Airports or airfields are located at Geraldton, Dongara, Mullewa, Morawa, and Mingenew.

Office and workshop facilities to support the Project's construction, commissioning and long-term operation and maintenance will be included in the Project.

During the operational phase of the Project, WTGs, BESS and supporting infrastructure would require regular inspection and maintenance. During the initial operating years, operator attendance may be more regular while the wind farm operation is being optimised. Regular scheduled maintenance is required. It is possible that major unexpected or unscheduled maintenance could take place during the life of the wind farm.

The intended design life is 25+ years, with option for repowering and structural inspection to extend the life by an additional 10+ years. Decommissioning and rehabilitation will occur following the cessation of the operational life. The decommissioning phase is anticipated to be around 18 months and will involve dismantling and removing the above ground WTG components, removing related above-ground infrastructure and rehabilitating internal access roads not requested to be retained by individual landowners.

1.1 Wind Turbine Generator

The wind turbine generators (WTGs) nominally selected for the Project are the Vestas EnVentus V172-7.2 model. This model range includes a new modular nacelle design that allows a range of models to be manufactured using the same base componentry, thereby reducing cost. The V172-7.2 model has the following technical features relevant to the environmental and social impact studies:

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- Rotor diameter = 172 m (approx. blade length = 84 m)
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- Hub height (above ground) = 150 m (IEC S).

1.1.1 Electromagnetic Emissions

The electromagnetic frequency energy emitted by the Vestas WTGs complies with all applicable European Union (EU) legislation and International Electrotechnical Commission (IEC) standards, which aligns with the equivalent standards, frameworks and guidelines used in Australia, including the ACMA-mandated Electromagnetic Compatibility (EMC) standards. The electromagnetic emission from the WTGs is sufficiently low to avoid interference with aerial radiocommunications operated by third parties, provided those radiocommunications site are at distances of greater than 2 km away (EPHC 2010). The full list of electromagnetic compliance standards met by the proposed WTGs is provided below.

Electromagnetic Compatibility

Electromagnetic compatibility and compliance relate to the management of electromagnetic energy and how it may cause electromagnetic interference (EMI) or physical damage in the environment in which it operates.

The WTG and related equipment fulfil the EU Electromagnetic Compatibility (EMC) legislation:

- DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility.

The EMC performance is based on fulfilment of the following standards:

- **Emission**
 - o IEC/CISPR 11 at wind turbine level
 - o IEC 61000-6-4 for telecommunications

- **Immunity**
 - o IEC 61000-6-2 for electronics installed
 - o IEC 61400-24 for lightning protection of electronics installed
 - o Further to DIRECTIVE 2014/30/EU, electronics related to the functional safety evaluation meets IEC 62061 Safety on machinery (Directive 2006/42/EU Machinery)
- **RED (Radio Equipment Directive)**
 - o Related radio equipment installed in the WTG fulfil the EU legislation: DIRECTIVE 2014/53/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014.

EMF (Electromagnetic Fields)

Electromagnetic fields in the WTG are controlled to ensure safe occupancy for personnel during design, production, operation and service. The following directive is the basis for ensuring minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents.

- DIRECTIVE 2013/35/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 26 June 2013.

2.0 Electromagnetic Interference from Wind Farms

As stated in the National Wind Farm Development Guidelines – Draft (EPHC 2010):

EMI caused by utility-scale wind farm projects may affect various radiocommunications systems, including broadcast radio and television, mobile phones and radar.

Any obstructions between a transmitter and receiver will cause degradation to a radiocommunications signal. Obstructions in the vicinity of a radiocommunications service may also cause reflections or refraction which can degrade a radiocommunications signal, and signals from a transmitter located on a high point in the landscape are less likely to be obstructed. Radiocommunications services are designed to cater for any existing obstructions in the service area. However, the construction of a new wind farm can create new obstructions that may affect existing radiocommunications services.

EMI may affect various types of radiocommunications services, including:

- Point-to-point links, which rely on line-of-sight between transmitter and receiver
- Point-to-multipoint links, including mobile phones, broadcast radio and television
- meteorological radar
- aviation radar.

There are also two other unique services in the vicinity of the Project location that are sensitive to EMI. These are:

- the Australian Radio Quiet Zone WA (highly sensitive to electromagnetic waves generated by devices in the surrounding area)
- the Australian Fiducial Network station at Yarragadee (critical to global satellite navigation systems).

This has necessitated some additional stakeholder consultation on the Project, over and above the obligations on typical wind farm developments in other regions of Australia. As explained further in this report, this consultation has been completed as part of the EMI assessment process. There are three sources of EMI on radiocommunications service potentially created by wind farms:

- **Wind turbine tower** – physical obstruction, reflection and/or refraction of the electromagnetic waves transmitted by radiocommunications services
- **Wind turbine blades** – similar interference to that created by wind turbine towers, with the added complexity of rotating blades creating scattering and doppler effects
- **Wind turbine generator** – as stated in Section 1.1.1, the electromagnetic emissions from WTGs is of lesser concern, with a generator being akin to an electric motor.

These sources of EMI are considered in the assessment methodology.

3.0 Assessment Methodology

The assessment methodology applied by SLR to the assessment of EMI on the Project follows the workflow outlined in Appendix F of the National Wind Farm Development Guidelines – Draft (EPHC 2010). In accordance with these guidelines, the activities included for assessing the Project at its feasibility and planning (development) application stages is shown in Table 2. The assessment methodology included in this report is intended to support the Project's Development Application.

Table 2. EMI mitigation methodology at the feasibility and planning application stages (EPHC 2010)

Assessment Stage	Workflow of Activities by Project Proponent
Project Feasibility	Collect preliminary data
	Determine organisations for consultation
	Identify potential services affected
	Preliminary impact assessment
Planning (Development) Application	Collect data for validation
	Consult potentially affected parties
	Develop mitigation strategy
	Finalise mitigation strategy

The assessment methodology included in this report excludes the evaluation of EMI on aviation operations. It is included in the Project's Aviation Impact Assessment.

3.1 Data Collection

SLR conducted a search of the Australian Communications and Media Authority (ACMA) Register of Radiocommunications Licenses (Sept 2024) to develop a listing of all licensed services within 50 km of the proposed wind turbine locations forming the Project. These are listed in Appendix A. A geospatial overlay of these services across the Mid-West Region of Western Australia, including the Project area, is shown in Figure B-2 (Appendix B).

3.1.1 Service Types

The types of radiocommunications service considered in the EMI assessment include:

- Point-to-point links
- Point-to-area services
- CB radio

- Radar services
- Trigonometrical stations
- Radio astronomy.

3.1.1.1 Point-to-Point Links

The most susceptible radiocommunications service type to wind farm developments is point-to-point radio links. These rely on line-of-sight between transmitter and receiver. Any obstruction, such as a large wind turbine, in the vicinity of a straight line between these two points may cause interference and signal degradation. Therefore, assessing interference with the vector positioning of a point-to-point link is one of the primary subjects of a wind farm's EMI assessment.

3.1.1.2 Point-to-Area Services

Point to area services include public radio (analogue and digital), digital television and digital voice based technologies such as mobile phones (often called Global System for Mobile Communications, or GSM phones), and fourth and fifth generation phones (often called 4G and 5G phones). These services are generally unaffected by wind farm development. In some instances, a reduction in receiving signal caused by WTGs may necessitate the installation of higher-powered radiocommunications equipment or a booster station. These situations are difficult to quantify during the project planning stage. Therefore, a suitable mitigation strategy is put in place for a project's detailed design and construction stages to rectify unwanted losses in reception.

3.1.1.3 Citizens' Band (CB) Radio

This class licence lets you use citizen band (CB) radios to communicate over short distances. CB radios may only be used on designated channels in the follow narrow frequency bands (ACMA 2025):

- HF – 26.965 MHz to 27.405 MHz (inclusive)
- UHF – 476.4125 MHz to 477.4125 MHz (inclusive).

Given their relatively short range application, CB Radio operations are generally not affected by wind farm operations. It should also be noted that the use of CB Radio does not require an ACMA licence and therefore the extent of its use in the vicinity of the Project development area is difficult to quantify.

3.1.1.4 Radar Services

Radars send out electromagnetic waves in short pulses which may be reflected by objects in their path back to the point of transmission. The reflected signal is used to detect the presence of objects in the lower atmosphere, such as aircraft and precipitation (rainfall) (Bureau of Meteorology 2025). Wind turbines, when sited within a radar station's operating range, are large targets that can create unwanted radar reflections. These targets can create 'clutter' on a radar image which reduces the image quality.

Radar services are used in the Mid-West region of Western Australia for meteorological and aviation operations. The Bureau of Meteorology operates a nationwide network of over 60 Weather Watch radars, the closest to the Project being Geraldton. The radar images on the Bureau's website display rainfall echoes from clouds located between 2,500 m and 3,500 m above ground. At this height, the optimal radar coverage extends to 200 km from each radar (Bureau of Meteorology 2025).

Aviation radar is not presented in this report. Refer to the Project's Aviation Impact Assessment.

3.1.1.5 Trigonometrical Stations

Trigonometrical stations are used for recording geospatial measurements with Global Positions System (GPS). These systems use Electronic Distance Measuring (EDM) devices, some of which are designed for use over long distances (>100 km).

In Australia there are eight permanent trigonometrical stations equipped with EDM devices and GPS receivers that form the Australian Fiducial Network (AFN) – a crucial component of Australia's spatial data infrastructure which transmits data to Geoscience Australia via phone lines, internet and/or satellite.

The nearest AFN stations to the Project is located at Yarragadee (Depot Hill), operated by Geoscience Australia, approx. 16 km in a southeasterly direction from the boundary of the Project area.

3.1.1.6 Radio Astronomy

There is one radio astronomy site located in the Mid-West Region of Western Australia, which is the Murchison Radio-astronomy Observatory (Geoscience Australia, CSIRO). It comprises the Square Kilometre Array (SKA) and the Australian Radio Quiet Zone (WA), where outside radio-frequency signals shall be kept to levels that will ensure any emissions do not damage the operation of highly sensitive radio-astronomy activities. Any development project up to 260 km from the Australian Radio Quiet Zone (WA) centroid (26° 42'15" South, longitude 116° 39' 32" East, GDA94 datum) has a duty to consult with Geoscience Australia, depending upon its equipment transmission frequency, through coordinating activities defined by the Radiocommunications Assignment and Licensing Instruction (RALI) MS32 (ACMA 2025).

The proposed Mid-West Wind Farm is located approx. 235 km from the Australian Radio Quiet Zone (WA). While this is beyond the relevant Coordination Radius (RALI MS32), consultation has been undertaken with Geoscience Australia to verify there are no EMI issues with the Project. Refer Appendix C for further details.

3.2 Identification of Services Potentially Affected

Having determined the licensed radiocommunications services in the vicinity of the Project and reviewed any known exclusion zones defined by the organisations listed above, SLR determined which services may be affected by the Project. A mitigation strategy using broad screening-type avoidance measures was first considered. This identified the WTG locations that required greater scrutiny using analytical methods.

3.2.1 Recommended Criteria to Mitigate EMI using Avoidance Measures

The National Wind Farm Development Guidelines – Draft (EPHC 2010) includes general recommendations for where WTGs should avoid being sited:

- **within the maximum second Fresnel zone of a point-to-point radio link.** Several WTG locations with respect to their nearest point-to-point radio link have required second Fresnel zone calculations to verify the potential for EMI. This has also triggered a requirement for stakeholder consultation.
- **within 2 km of a radiocommunications site or a receiver.** Ten WTGs proposed on the Project are sited closer than 2 km from the nearest radiocommunications site. This has also triggered a requirement for stakeholder consultation.

- **within 250 nm of Aeronautical and Weather Radar operations.** The Project is within this range of the nearest weather radar station, as discussed further below. This has also triggered a requirement for stakeholder consultation.

Further details on setting an appropriate avoidance criteria for specific types of services is provided as follows.

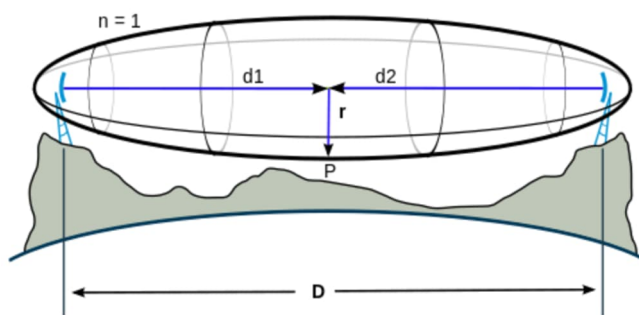
3.2.1.1 Point-to-Point Services – Obstruction to Line-of-Sight Path

When the location of a WTG causes point-to-point radiocommunications signals to be partially or fully obstructed, it can result in a reduction or loss of signal.

From prior consultation with radiocommunications operators on wind farm projects, it is generally accepted that effects from obstruction by wind turbines can be avoided by placing the turbines, including their blade swept area, outside the Second Fresnel Zone (SFZ) of the line-of-sight path of a point-to-point radio link. Additional conservatism is often requested by service operators with the inclusion of a margin of error in the calculations, typically in the order of 100 to 200 m, to account for factors such as the geospatial tolerance on licensed radiocommunications sites registration with ACMA.

- The SFZ is calculated using the frequency of the signal and the length of the path. The maximum SFZ radial extent of a link (worst case for detecting potential interference) occurs at the mid-point along the path. The SFZ clearance is equal to 141.4% of the first Fresnel Zone radius (i.e., $\sqrt{2} \times r_1$), as shown in

Figure 1, where the Fresnel Zone is an ellipsoidal shape.



At mid – distance (D) :

$$\text{1st Fresnel zone radius, } r_1 \text{ (m)} = 17.31 \sqrt{\frac{D}{4f}} \quad (\text{eqn. 3.2.1.1})$$

where,

D = distance between point-to-point antenna locations (km)

f = transmitted signal frequency (GHz)

Figure 1. Fresnel Zone radius (r_n)

1. There are nine point-to-point radio links within the Project area transmitting to/from five sites, as listed in Table 3. The licensees (project stakeholders) were identified as requiring consultation on the Project based on their proximity (<400 m) to the proposed WTGs listed in Table 3, there is one point-to-point link passing through the Project development area with its transmitter and receiver sites located outside the Project development area. This link is tied to Site ID's 10002128 (Mungarra Power Station DBP Site 31 km East of Walkaway West Casuarinas) and 36527 (Telstra Exchange Nangetty via MINGENEW). It was included in the assessment that identified some of the WTGs shown in Table 4.

Table 4.

Table 3. Radiocommunications Sites within the Project area with point-to-point links

Site ID	Site Name	Licensee(s)
9027094	Mungarra GT Substation Tower Walkaway-Nangety Rd WEST CASUARINAS	Electricity Networks Corp. (Western Power / Synergy)
10002128	Mungarra Power Station DBP Site 31 km East of Walkaway West Casuarinas	DBNGP (WA) Nominees Pty Ltd (Dampier Bunbury Pipeline)
30964	Dampier to Bunbury Gas Pipeline Nangetty Road via	DBNGP (WA) Nominees Pty Ltd (Dampier Bunbury Pipeline) Electricity Networks Corp. (Western Power)
37662	Telstra Customer Campbell via ALLANOOKA	Telstra Limited (Radio Transport Engineering)

2. Further to the sites listed in Table 3, there is one point-to-point link passing through the Project development area with its transmitter and receiver sites located outside the Project development area. This link is tied to Site ID's 10002128 (Mungarra Power Station DBP Site 31 km East of Walkaway West Casuarinas) and 36527 (Telstra Exchange Nangetty via MINGENEW). It was included in the assessment that identified some of the WTGs shown in Table 4.

Table 4. Proposed WTG locations within 400m perpendicular distance of ACMA-licensed point-to-point links

WTG Tag #	Perpendicular Distance to Nearest Point-to-Point Link from WTG Centreline (m)
11	340
23	295
37	275
41	340
56	292
57	110
70	108
83	27
87	65
97	290

3.2.1.2 Radar Services – Obstruction to Line-of-Sight Path

Meteorological radar services may be affected by wind turbines if they are located within a radar operating range and line of sight. The nearest meteorological radar station to the Project is located at the Geraldton Meteorological Office (lat. 28.80° S, long. 114.70° E). According to the Bureau of Meteorology (2025):

Geraldton Weather Watch radar has good coverage in all directions.

Intense thunderstorm or cold fronts can be seen up to 250 kilometres away, however at this distance the radar is sensing the upper structure of the system and may give an incorrect approximation of the actual surface rainfall intensity of the system. The radar is susceptible to anomalous propagation (AP) for distances up to 80 kilometres along the coastline and seaward of it. The AP appears as an area of low intensity echoes usually around the Abrolhos Islands (the Abrolhos Islands group stretches from a position approximately 80 kilometres west of Geraldton running north-west, roughly parallel to the coast, for approximately 80 kilometres).

The nearest Project WTGs to the Geraldton Meteorological Office are approximately 36 km away. Therefore, the Project is likely to produce anomalous propagation in the direction of the WTGs. Consultation with the Bureau of Meteorology is ongoing to mitigate adverse effects created by the Project on Geraldton meteorological radar.

3.2.1.3 Near-field Zone of Interference

Transmitting and receiving antennas have a reactive “near-field” zone, which requires freedom from any object that can conduct or absorb radio waves. If a wind turbine is located within the near-field of an antenna, it may adversely alter the antenna’s characteristics. The near-field region around an antenna has a reactive distance from the source. Electrically large antennas (e.g., a parabolic reflector) also have a radiating region (also known as the Fresnel region). The reactive and radiating near-fields for an antenna may be calculated using the following equations:

extent of near field reactive region, $R = \frac{\lambda}{2\pi}$ (eqn. 3.2.1.3a)

extent of near field radiating region, $R = 0.5 \frac{D^2}{\lambda}$ (eqn. 3.2.1.3b)

where,

R = distance (m)

λ = wavelength of radiocommunications signal (m)

D = largest dimension of the antenna (m), usually taken as its length

An antenna’s length, for optimal transmission, should be half the wavelength of the transmitted signal’s frequency. In the absence of receiving stakeholder input on a project, this can be used as a conservative rule-of-thumb to assess whether a WTG is located within the near field of a radiocommunications site. When using equation 3.2.1.3b above, it was found that none of the proposed WTG locations on the Project are sited within this near field of any licensed radiocommunications site.

3.3 Consultation

The radiocommunications sites and their licensees listed in Appendix A were reviewed with Vestas for determining an action plan for stakeholder consultation. The following stakeholders for EMI potential were consulted to support the Project's Development Application:

- Australian Gas Infrastructure Group (regarding their communications systems along their Dampier-Bunbury Pipeline)
- Telstra Base Station Enquiries
- Bureau of Meteorology
- Geoscience Australia
- WA Department of Fire and Emergency Services (DFES)
- WA Police Service
- St John Ambulance
- Synergy (Mungarra Power Station).

All stakeholders consulted on the Project were provided with a letter summarising the details of the proposed Project and a request for their feedback, including any concerns they may have and any preferred mitigations. Also provided was an electronic geospatial data file showing the Project area boundary and proposed WTG locations. A summary of all stakeholder consultation completed is provided in Appendix C.

Feedback received from several stakeholders included a request to relocate some of the Project's WTGs by "up to a few hundred metres" to avoid interference with their existing services. The Project's micro-siting activities will consider the necessary WTG relocations during the engineering design stage. This has been factored into the Project's Development Application and is the subject of ongoing consultation with the affected stakeholders, which will continue into the Project's engineering design process.

3.4 Mitigation Strategy

The required setbacks calculated by SLR for point-to-point services and feedback received from consulted stakeholders has been incorporated into the Project's Development Application. This includes the identification of practical mitigations to limit EMI. The preferred mitigation measure is to adjust spacing and/or relocate WTGs in relation to any affected services (i.e., an avoidance strategy) while avoiding additional impacts the WA Planning and Development Act and WA Environment Protection Act (e.g., avoid clearing native vegetation).

Where WTG relocation is not possible due to other constraints, such as protection of nearby remnant native vegetation, then the affected stakeholders and radiocommunications licensees will be consulted to reach agreement on a set of mutually acceptable solutions, depending on the service type affected. As part of this process, the following mitigation measures may be considered:

- Selection of tower and nacelle shape and available construction materials, the use of absorbing (or non-reflective) materials from those available for blade construction
- Replacement of existing radiocommunications service equipment with another less affected type (e.g., UHF link → Microwave link)

- Relocation of impacted services to another nearby existing radiocommunications transmitter/receiver site, or relocation of services to a new site requiring construction. Note that such a site may need to be established to provide radiocommunications services to the wind farm itself, thereby providing a dual-purpose solution
- Employ underground or overhead optical fibre as the radiocommunications medium in lieu of a radiocommunications service, thereby avoiding the wind farm interference effects
- Install enhanced signal filters in affected systems that adjust for spurious return signals created by WTGs.

Where the EMI effects cannot be easily quantified prior to Project construction, additional mitigation measures may include:

- Carry out baseline testing prior to construction to quantify existing signals where relevant (e.g., residential TV signals for receptors in close proximity to WTGs)
- Carry out post-construction validation monitoring to identify other retrofit mitigations for the affected radiocommunications systems. These may include:
 - o Review and improve the receiving antenna orientation and state of repair
 - o Installation of a more directional and/or higher gain antenna
 - o Relocation of the antenna to a less affected position
 - o Installation of an appropriate amplifier
 - o Installation of a digital TV translator for an affected area
 - o Provision of satellite TV services.

4.0 Key Findings

When applying the Guidelines (EPHC 2010), as included in the EMI assessment outlined in this report, it was found that no significant EMI impacts from the Mid-West Wind Farm are anticipated when the mitigations recommended by the Project stakeholders are incorporated. There are no WTGs proposed within the radiating near field of existing radiocommunications sites. Several of the WTGs will require further micro-siting review (i.e., minor relocation) to avoid the potential for interference from point-to-point radiocommunication links. The installation of additional weather monitoring instrumentation within the Project area will also be required, as evidenced by feedback received from the consulted stakeholders (refer Appendix C).

Further consultation with affected stakeholders will take place during the detailed design stage to verify the positioning of the WTGs with respect to radiocommunications services. These consultation activities will also account for those services that may have been decommissioned, upgraded or introduced after the time of Development Application lodgement. Further consultation is also necessary due to the level of accuracy available in the radiocommunications location data provided by ACMA, thereby requiring verification of exact site geospatial locations with stakeholder assistance. The mitigation strategy included in Section 3.4 will be used to facilitate the stakeholder consultation process for detailed design.

5.0 Closure

This report provides an assessment of the potential for electro-magnetic interference created by the proposed development of the Mid-West Wind Farm. This assessment is designed to support the Project's Development Application lodgement with the relevant authorities.

Sincerely,

SLR Consulting Australia



Ashley Gibson, CPEng

Technical Director – Renewable Energy

Appendix A ACMA Registered Radiocommunications Facilities within 50km

Electromagnetic Interference (EMI) Assessment

Mid-West Wind Farm

Mid-West Wind Farm Pty Ltd

SLR Project No.: 675.072296.00007

11 June 2026



Table A-1: Australian Communications and Media Authority (ACMA), Register of Radiocommunications Licences (RRL) within 50 km of Mid-West Wind Farm (ACMA, retrieved November 2025)

SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
26662	-28.505417	115.698624	Telstra Customer Nungulya Homestead MULLEWA	6630	Unknown
27352	-28.779037	114.629992	329 Pass Street GERALDTON	6530	Unknown
30705	-29.634874	115.090409	Telstra Customer Barrack Energy DONGARA	6525	Unknown
30719	-29.619381	115.31674	Dampier to Bunbury Gas Pipeline Site R33 Arrowsmith Skipper Rd 23 Km N of ENEABBA	6519	Within 100 metres
30724	-29.407778	115.654725	Arrino THREE SPRINGS	6519	Within 10 metres
30735	-29.481869	115.634718	Victoria Location 6522 THREE SPRINGS	6519	Unknown
30752	-29.191676	115.585101	13km East North East of MINGENEW	6522	Unknown
30753	-29.069899	115.3621	Yaragadee West Rd 18 km NW of MINGENEW	6522	Unknown
30756	-29.08626	115.704194	Telstra Customer Broad Locn 1186 via MINGENEW	6623	Unknown
30757	-29.115581	115.718205	Telstra Exchange MERKANOOKA	6623	Unknown
30759	-29.050535	115.558985	Coalseam Rd. 18km North East of MINGENEW	6522	Within 100 metres
30760	-29.036789	115.553826	Holmwood Tank Lot 19 Coalseam Rd MINGENEW	6522	Within 100 metres
30762	-28.8632	115.50346	Lot 10 Hebitons Rd MENDEL	6630	Unknown
30765	-29.203151	115.442554	South Rd MINGENEW	6522	Within 100 metres
30768	-29.320561	115.569939	Ward YANDANOOKA	6522	Unknown
30769	-29.197087	115.348482	10km West of MINGENEW	6522	Unknown
30770	-29.272383	114.9243	2 Carroll St PORT DENISON	6525	Within 100 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
30771	-29.258383	114.9273	Dongara Taxis Site 12 Hope Street DONGARA	6525	Within 10 metres
30772	-29.263436	114.929111	5 Richardson Rd PORT DENISON	6525	Within 100 metres
30780	-29.46343	115.141224	Beharra Springs Well ENEABBA	6525	Unknown
30791	-29.21868	115.091725	Telstra Exchange monopole IRWIN	6525	Unknown
30793	-29.269413	114.925883	Lot 480 Russ St DONGARA	6525	Within 100 metres
30794	-29.169502	115.105258	Low Hill IRWIN	6525	Unknown
30795	-29.549887	115.078389	Telstra Customer Micro Algae ENEABBA	6525	Unknown
30796	-29.25213	114.956604	Midlands Road DONGARA	6525	Unknown
30798	-29.115434	115.001441	Mt Horner DONGARA	6525	Unknown
30799	-29.112617	115.105665	Mt Horner Gwn Site DONGARA	6525	Within 100 metres
30800	-29.548782	115.068091	Telstra Customer P Summers via ENEABBA NORTH	6525	Unknown
30801	-29.498074	115.042805	Telstra Customer Perkins via ENEABBA NORTH	6525	Unknown
30802	-29.253177	114.930861	Police Station DONGARA	6525	Unknown
30810	-29.245822	114.945413	Railway Station DONGARA	6525	Within 100 metres
30811	-29.524071	115.375179	Robinson Road THREE SPRINGS	6519	Unknown
30812	-29.332116	115.06808	Telstra Customer via IRWIN	6525	Unknown
30813	-29.405276	115.14121	Dampier Bunbury Gas Pipeline Mount Adams Rd 30km S of DONGARA	6525	Within 100 metres
30814	-29.124851	115.140381	Dampier to Bunbury Gas Pipeline Site R31 Mt Horner DONGARA	6525	Within 100 metres
30816	-29.262689	115.008203	Wang Site DONGARA	6525	Unknown



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
30819	-28.363587	114.881001	Woolanooka WALKAWAY	6532	Unknown
30821	-28.770138	114.624183	109 NW Coastal Highway GERALDTON	6530	Within 100 metres
30823	-28.775868	114.587577	11 Fishermans Wharf GERALDTON	6530	Within 100 metres
30826	-28.770076	114.615552	12 Lewis Street GERALDTON	6530	Within 100 metres
30827	-28.772673	114.617029	13 Gummer Ave GERALDTON	6530	Within 100 metres
30847	-28.772076	114.613868	26 Anzac Tce GERALDTON	6530	Within 100 metres
30849	-28.764372	114.632372	275 Fifth St GERALDTON	6530	Within 100 metres
30856	-29.198748	115.884927	Telstra Customer White 30 km W of MERKANOOKA	6623	Unknown
30861	-28.778431	114.600821	361 Marine Tce GERALDTON	6530	Within 100 metres
30863	-28.747328	114.627638	2 Newman Street GERALDTON	6530	Unknown
30876	-28.775428	114.619731	7 Caprice Rd GERALDTON	6530	Within 100 metres
30877	-28.796404	114.622327	7 Highbury St GERALDTON	6530	Within 100 metres
30879	-28.769827	114.614227	72 Chapman Rd GERALDTON	6530	Within 100 metres
30886	-28.769396	114.625603	Ambulance Centre GERALDTON	6530	Unknown
30890	-28.77719	114.602078	Burges Street GERALDTON	6530	Within 100 metres
30891	-28.415428	115.251401	Telstra Customer Campbell Vic Locn 8581 EAST YUNA	6532	Unknown
30895	-28.784475	114.616044	Cathedral Ave GERALDTON	6530	Unknown
30896	-28.778038	114.599038	Cbh Complex GERALDTON	6530	Within 100 metres
30898	-28.777054	114.599521	Cbh Terminal Office Marine Terrace GERALDTON	6530	Unknown



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
30902	-28.767516	114.615703	Chapman Rd nearest cnr Bayly St GERALDTON	6530	Within 100 metres
30908	-28.776571	114.625747	Cnr Grey & NW Coastal Hwy GERALDTON	6530	Within 100 metres
30909	-28.774372	114.626411	Coastal Hwy GERALDTON	6530	Unknown
30911	-28.848962	114.850784	Colvin Stud Loc M205 ROUND HILL	6530	Unknown
30913	-28.729567	114.623229	Crowtherton St GERALDTON	6530	Unknown
30916	-28.126782	115.117304	Dartmore MULLEWA	6532	Unknown
30918	-28.775844	114.587261	Fishermans Wharf GERALDTON	6530	Within 100 metres
30919	-28.716279	114.684118	Flat Topped Range GERALDTON	6530	Unknown
30920	-28.776462	114.645247	Flores Rd GERALDTON	6530	Within 100 metres
30935	-28.932138	114.750608	Lot 9 Gaskin Road GREENOUGH	6530	Unknown
30938	-28.785124	114.596673	Lot 2629 Barker Street GERALDTON	6530	Within 100 metres
30940	-28.776673	114.603421	Marine Terrace Cnr Francis St GERALDTON	6530	Within 100 metres
30944	-29.046682	115.346745	Telstra/Geoscience Moblas 5 Site Depot Hill Road Yarragadee 18.5 km NW of MINGENEW	6522	Within 10 metres
30945	-28.776541	114.616378	Mount Scott GERALDTON	6530	Within 100 metres
30950	-28.870993	115.281135	Telstra Customer FW Newman via MINGENEW	6630	Unknown
30951	-28.775174	114.595263	No 4 Berth Port Area GERALDTON	6530	Within 100 metres
30953	-28.775766	114.592997	No5 Berth GERALDTON	6530	Within 100 metres
30958	-28.771602	114.612548	Police Station GERALDTON	6530	Within 100 metres
30959	-28.765653	114.618008	Police Station GERALDTON	6530	Within 100 metres
30961	-28.782315	114.61128	Regional Hospital GERALDTON	6530	Within 100 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
30963	-28.770374	114.647473	SECWA Depot S10 GERALDTON	6530	Within 100 metres
30964	-28.889158	115.143081	Dampier to Bunbury Gas Pipeline Nangetty Road via MINGENEW	6630	Within 100 metres
30966	-28.784565	114.616042	St John of God Hospital Hermitage St GERALDTON	6530	Within 100 metres
30970	-28.807323	114.627508	Tarcoola Tank Site lot 324 Matthew street GERALDTON	6530	Within 100 metres
30973	-28.33843	115.141	Telstra Exchange EAST YUNA	6532	Unknown
30974	-28.763492	114.626412	Television Studio GERALDTON	6530	Within 100 metres
30981	-28.779894	114.596793	Wharf Area GERALDTON	6530	Unknown
30982	-28.779517	114.59588	Wharf Area GERALDTON	6530	Within 100 metres
30983	-28.777024	114.587643	Wharf Area GERALDTON	6530	Within 100 metres
30984	-28.783367	114.619756	Wells Street GERALDTON	6530	Within 100 metres
30987	-28.769304	114.615263	Cnr Lewis and Chapman Roads GERALDTON	6530	Within 100 metres
30988	-28.773488	114.610027	Telstra Exchange near Post Office Lane GERALDTON	6530	Within 100 metres
30991	-28.881297	114.678925	NW Coastal Hwy GREENOUGH	6530	Unknown
30998	-28.315464	115.001715	Flavel Enterprises 5 km NE of YUNA	6532	Unknown
31004	-28.796096	114.702364	Terminal Building Airport GERALDTON	6530	Within 100 metres
31012	-28.762789	114.822245	Bringo GERALDTON	6530	Within 100 metres
31013	-28.735004	114.694862	ML Communications G/S 1 Mt Fairfax MOONYOONOOKA	6532	Within 100 metres
31016	-28.816626	114.695728	Control Centre NARNGULU	6530	Unknown



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
31017	-28.347405	114.917071	Telstra Customer Ryan YUNA	6532	Unknown
31019	-28.794633	114.670228	Edward Rd GERALDTON	6530	Within 100 metres
31028	-28.835732	114.700287	Lot 11750 Narngulu Road GREENOUGH	6532	Within 10 metres
31030	-28.732759	114.692864	ML Comms Group Site 2 Mt Fairfax MOONYOONOOKA	6532	Within 100 metres
31032	-28.814159	114.699163	Kiln NARNGULU	6530	Unknown
31033	-28.695591	114.845047	Defence/Telstra Site Kojarena GERALDTON	6532	Within 100 metres
31034	-28.694112	114.86673	Yanget Yanget Rd was Kojarena North Rd KOJARENA	6530	Unknown
31041	-28.820784	114.675147	Lot 7 Goulds Rd NARNGULU	6530	Within 100 metres
31042	-28.820164	114.691552	Lot 1 Edward Road NARNGULU	6530	Within 100 metres
31044	-28.804667	114.697449	Met. Bureau Airport GERALDTON	6532	Within 100 metres
31048	-28.819882	114.675167	Mineral Sands Loader NARNGULU	6530	Unknown
31049	-28.780427	114.74261	Water Corp Site MOONYOONOOKA	6530	Unknown
31052	-28.683059	114.677791	State Service site Moresby Range GERALDTON	6532	Within 100 metres
31058	-28.812158	114.687713	Railway Yard NARNGULU	6530	Within 100 metres
31061	-28.501109	114.789068	Shire Office NABAWA	6532	Within 100 metres
31070	-28.724605	114.865301	Telstra Radio Site KOJARENA	6530	Within 100 metres
31071	-28.681969	114.676873	Broadcast Australia Site Moresby Range off Chapman Valley Rd WAGGRAKINE	6532	Within 10 metres
31072	-28.724627	114.865526	Telstra/SECWA Site Geraldton-Mullewa Road Kojarene East of GERALDTON	6530	Within 100 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
31078	-28.746885	114.959359	Water Corp Site WICHERINA	6530	Unknown
31081	-28.709984	114.877685	Defence Site Yanget Rd KOJARENA	6530	Unknown
31083	-28.318306	115.152175	Wandana Hill 15 Km East of YUNA	6532	Unknown
31084	-28.429908	114.716416	12km South East of NORTHAMPTON	6535	Unknown
31108	-28.377457	114.709382	Harvey Road NORTHAMPTON	6535	Unknown
31117	-28.377969	114.739976	Parker Rd NORTHAMPTON	6535	Unknown
31412	-29.199469	115.831845	Morawa Hill MORAWA	6623	Unknown
31420	-29.328482	115.827288	Three Springs Morowa Rd THREE SPRINGS	6519	Unknown
31424	-29.174373	115.828068	Agar 28 km West of MORAWA	6623	Unknown
31430	-28.861547	115.78848	Telstra Customer Kowald via MORAWA	6623	Unknown
31440	-29.607803	115.399156	Skipper Road 24 Km NE of ENEABBA	6519	Unknown
31441	-28.55209	115.499458	22 Km North of MULLEWA	6630	Unknown
31442	-28.632336	115.603924	Dean 3 km East of Wilroy Siding WILROY	6630	Unknown
31443	-29.613429	115.340703	Off Skipper Rd 23 Km NE of ENEABBA	6519	Unknown
31444	-28.777859	114.599093	Grain Terminal Marine Terrace GERALDTON	6530	Unknown
31447	-28.538415	115.513182	Beatty Radio Mast MULLEWA	6630	Unknown
31455	-28.353777	115.465572	Telstra Customer Daisy Downs Station MULLEWA	6630	Unknown
31456	-28.281008	115.415845	Telstra Customer Excel via EAST YUNA	6532	Unknown
31457	-28.254254	115.44376	Telstra Customer Gould via EAST YUNA	6532	Unknown
31458	-28.535675	115.510155	Hospital MULLEWA	6630	Unknown
31459	-28.534918	115.442718	Hospital Elder St MULLEWA	6630	Unknown



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
31461	-28.541078	115.509058	Lot 196 Padbury St MULLEWA	6630	Unknown
31462	-28.540047	115.503104	Lot 22 Main St MULLEWA	6630	Within 10 metres
31468	-28.566015	115.515811	Long Craggs Farm Old Mingenew road MULLEWA	6630	Unknown
31473	-28.551234	115.503777	Broadcast Australia Site off Geraldton - Mt Magnet Rd 1.5km SSW of MULLEWA	6630	Within 100 metres
31474	-28.486253	115.622234	Old Pindar Rd Beatty MULLEWA	6630	Unknown
31477	-28.582508	115.501317	Police Station MULLEWA	6630	Unknown
31482	-28.825966	115.516523	Telstra Exchange MENDEL	6630	Unknown
31484	-28.617091	115.134535	Telstra/Epic Dampier-Bunbury Pipeline nr Eradu 40 km E of GERALDTON	6630	Within 100 metres
31486	-28.333532	115.121203	Dampier to Bunbury Gas Pipeline Wandana 30 km NW of MULLEWA	6532	Unknown
31487	-28.552392	115.247243	Cnr Brenkley & Tenindewa Rd TENINDEWA	6630	Unknown
31488	-28.352802	115.673915	Telstra Customer Tutawa Stn Mullewa Area MULLEWA	6630	Unknown
31490	-28.552126	115.503536	Comms Tower Telstra Site off Geraldton - Mt Magnet Rd 1.5km SSW of MULLEWA	6630	Within 10 metres
31501	-28.527079	115.779552	Tardun Rd MULLEWA	6630	Unknown
31504	-28.822385	115.256962	Telstra Customer Kitto Loc 9960 via MINGENEW	6630	Unknown
35086	-28.731624	114.692428	Geraldton TV and Radio Site MOONYOONOOKA	6530	Unknown
36499	-28.34292	115.545501	Telstra Customer Urawa Station MULLEWA	6630	Unknown



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
36527	-29.003495	115.338914	Telstra Exchange Nangetty via MINGENEW	6522	Unknown
36528	-29.042937	115.631686	Telstra Exchange Guranu via MINGENEW	6522	Unknown
36530	-29.613508	115.336974	Telstra Exchange ENEABBA NORTH	6519	Unknown
37661	-29.015716	115.100025	Telstra Exchange Allanooka via MINGENEW	6530	Unknown
37662	-28.924692	115.150244	Telstra Customer Campbell via ALLANOOKA	6630	Unknown
38553	-28.328325	115.0043	Telstra Exchange YUNA	6532	Unknown
38873	-29.379771	115.339548	Telstra Exchange Arrowsmith via MINGENEW	6519	Within 10 metres
38925	-28.568772	114.940302	Telstra Northern Gully Exchange GERALDTON	6532	Unknown
38944	-28.94787	115.868066	Telstra Exchange GUTHA WEST	6623	Unknown
41175	-29.252185	115.399421	Broadcast Site 8 km SSW of MINGENEW	6522	Within 10 metres
43507	-28.766342	114.616149	Cnr Chapman Rd/View St 72 GERALDTON	6530	Unknown
44666	-28.751807	114.633516	26 Boyd Street cnr Anderson St GERALDTON	6530	Unknown
44802	-28.777764	114.598839	Marine Tce GERALDTON	6530	Unknown
44827	-29.358999	115.23772	Comm Site Mt Adams MINGENEW	6525	Unknown
44834	-28.49934	114.768033	Consolidated Farms 5 km NW of NABAWA	6532	Within 100 metres
44897	-29.199824	115.495602	Erregulla Farms MINGENEW	6522	Unknown
44937	-28.774283	114.606036	Marine Tce GERALDTON	6530	Unknown
45215	-28.742404	114.61956	62 Kempton St GERALDTON	6530	Unknown
45298	-28.852494	114.790246	Quarry Georgina Rd GREENOUGH	6530	Unknown
45407	-29.129129	115.325931	Stokes 13 km NW of MINGENEW	6522	Unknown
45434	-28.451525	114.824169	Diadiloa NABAWA	6532	Unknown



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
45449	-29.464156	115.15767	APT Parmelia 35 km SE of DONGARA	6525	Within 10 metres
47238	-28.722698	114.632801	Chapman Sub Station GERALDTON	6530	Unknown
47276	-28.729049	115.003724	Pump Stn Wicherina Dam GERALDTON	6530	Unknown
50768	-28.77354	114.609944	Telstra Site Chapman Rd GERALDTON	6530	Unknown
53235	-28.787728	114.631741	19 Hardman St GERALDTON	6530	Unknown
53291	-28.505483	114.812847	Chapman Valley Rd NABAWA	6532	Unknown
53507	-28.736001	114.624823	441 Chapman Road GERALDTON	6530	Within 100 metres
53524	-28.772741	114.610679	TAB Office 20 Durlacher St GERALDTON	6530	Within 100 metres
53672	-28.483629	114.803954	Nabawa Hill NABAWA	6532	Unknown
53835	-28.537094	114.63142	Telstra Exchange Howatharra via GERALDTON	6532	Unknown
53840	-29.264854	114.933301	Dongara Hospital Blenheim Road DONGARA	6525	Unknown
53962	-29.310429	115.116968	Mondarra Gas Site DONGARA	6525	Unknown
54661	-29.463068	115.649406	Grandview Vic Loc 5777 ARRINO	6519	Unknown
55367	-28.774596	114.588109	South Pens Fishermans Wharf Road GERALDTON	6530	Unknown
100048	-28.695216	114.676448	Geraldton TV and Radio Site WAGGRAKINE	6532	Within 10 metres
100175	-28.944386	115.421245	Location Victoria 4121 MINGENEW	6522	Unknown
101081	-28.776971	114.598848	CBH Silo Ian Bogle Rd GERALDTON	6530	Unknown
131427	-29.257195	114.922343	Lot 4 Golfcourse Rd DONGARA	6525	Unknown
131978	-29.252322	115.399025	Telstra CDMA The Midlands Rd MINGENEW	6522	Within 10 metres
132024	-29.045757	115.348614	USN Yatharagga Site Depot Hill Road Yarragadee 18.5 km NW of MINGENEW	6522	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
132296	-29.193513	115.45031	Telstra Radio Base Station CBH Silos Lot 106 The Midlands Road MINGENEW	6522	Within 10 metres
132347	-29.272341	114.931453	Telstra CMTS Site Dee Street Port Denison DONGARA	6525	Within 10 metres
132503	-28.754767	115.127914	Telstra Site Lot 23 Ambania Road SOUTH ERADU	6630	Within 10 metres
132578	-28.931626	115.825051	Telstra Radio Base Site Loc 8608 Mullewa- Wubin Road CANNA	6623	Within 10 metres
134209	-28.756454	114.631988	80 Flores Road GERALDTON	6530	Within 10 metres
135370	-28.808063	114.627491	Optus Site Tarcoola 324 Mathews St MOUNT TARCOOLA	6530	Within 10 metres
136039	-28.682937	114.677445	Amateur Repeater Site Moresby Range 10.9km NNE of GERALDTON	6532	Unknown
136196	-28.770008	114.613189	Suite 2 65 Chapman Road GERALDTON	6530	Within 10 metres
136390	-29.045289	115.351946	Australian TDRSS Facility Depot Hill Road Yarragadee 18.5 km NW of MINGENEW	6522	Within 10 metres
136415	-28.662765	115.13741	Camp Site No 7 TX site WA Natural Gas Pipeline Project 53 km NE of Geraldton AMBANIA WA	6630	Unknown
137295	-28.77705	114.639111	St John Ambulance - Wonthella Eastward Road WONTHELLA	6530	Within 10 metres
137296	-28.732341	114.627568	St John Ambulance - Bluff Point Green Street BLUFF POINT	6530	Within 10 metres
137302	-29.242557	114.929666	St John Ambulance - Dongara Tulloch Drive DONGARA	6525	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
137455	-28.692861	114.837856	NPOESS Installation Defence Site Yanget Road KOJARENA	6532	Within 10 metres
137463	-28.753618	114.634417	Espinos 87 Anderson Street WEBBERTON	6530	Within 10 metres
137858	-29.272455	114.924836	Bass Marine 32 Duval St PORT DENISON	6525	Within 10 metres
138158	-28.80145	114.674174	Cnr Goulds Road and Meru Road Geraldton	6532	Within 10 metres
138236	-28.53969	115.512491	Broadcast site 1 Maitland Road Mullewa	6630	Within 10 metres
138420	-28.693746	114.843079	Earth station site Geraldton	6532	Unknown
138576	-29.046005	115.342998	SSC Site Depot Hill Road Yarragadee 18.5 km NW of MINGENEW	6522	Within 10 metres
138707	-28.666863	114.619584	Quayside Vista DRUMMOND COVE	6532	Within 10 metres
138729	-28.827955	114.634581	Southgate Forum Shops 2 Oceanside Drive WANDINA WA	6530	Within 10 metres
139084	-28.782264	114.613473	43 Shenton Street GERALDTON	6530	Within 10 metres
139123	-28.792004	114.626002	Durlacher St MT TARCOOLA	6530	Within 10 metres
139362	-28.777883	114.599912	DGPS Opp Cnr Marine Tce & Burges St GERALDTON	6530	Within 10 metres
139411	-29.193172	115.442623	28 Victoria Road MINGENEW	6522	Within 10 metres
139676	-28.705736	114.645658	122 David Road NORTH WAGGRAKINE	6530	Within 10 metres
139758	-29.045997	115.348995	SSC Dongara Station Depot Hill Rd 18 km NNW of MINGENEW	6522	Within 10 metres
139890	-28.804718	114.697297	Geraldton Met Bureau Radar Arthur Road GERALDTON	6532	Within 100 metres
140078	-28.674115	114.613333	26 Seacrest Way DRUMMOND COVE	6532	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
140079	-28.827097	114.635543	16 Portacello Circle WANDINA	6530	Within 10 metres
140173	-29.045999	115.349098	USN Yatharagga Depot Hill Rd MINGENEW	6522	Within 10 metres
140236	-28.792129	114.666761	142 Stansfield Road GERALDTON WA	6532	Within 100 metres
140275	-29.251932	114.949571	Dongara Base 54 Vincent Street DONGARA	6525	Within 10 metres
140560	-28.5398	115.505274	Radio MAMA Mast Recreation Centre 26 Main Rd MULLEWA	6630	Within 10 metres
140588	-28.775904	114.634487	HPON AM Mast Racing & Wagering WA Site Utakarra Racecourse Eastward Rd UTAKARRA	6530	Within 10 metres
140611	-29.046	115.349201	USN Yatharagga Site North Depot Hill Road MINGENEW	6522	Within 10 metres
140932	-28.78152	114.746929	2 Abattoir Rd MOONYOONOOKA	6532	Within 10 metres
141081	-28.659036	114.709224	Standby mast BA site 1276 Chapman Valley Rd NARRA TARRA	6532	Within 10 metres
141330	-28.74309	114.618562	Shipping channel Lead Lights Site 60 Kempton St BLUFF POINT	6530	Within 10 metres
141447	-29.339521	115.444049	Thomas Farm Mingenew South Rd MINGENEW	6522	Within 10 metres
142092	-29.044922	115.356221	WA Space Centre North Depot Hill Rd - RSN 2142 MINGENEW	6522	Within 10 metres
142146	-29.033333	115.333333	AMSA Cospas Sarsat Meolut Depot Hill Road DONGARA	6522	Within 10 metres
142165	-29.04567	115.348775	USN Yatharagga Site North Depot Hill Rd MINGENEW	6522	Within 10 metres
142465	-29.046459	115.342487	AMSA COSPAS-SARSAT MEOLUT Site Depot Hill Road 18.5 km NW of Mingenew DONGARA	6522	Within 100 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
150514	-28.731473	114.623902	Nominal Planning site Crowtheron St Bluff Point GERALDTON	6530	Within 10 metres
150654	-29.251554	114.930894	Cnr Morten Tce & Waldeck St DONGARA	6525	Unknown
151375	-28.786254	115.843595	Broadcast Site Pallottine Mission 10 km E of TARDUN	6630	Unknown
151378	-28.65839	114.709974	Main mast BA site 1276 Chapman Valley Rd NARRA TARRA	6532	Within 10 metres
152981	-28.683777	114.676004	Commercial Site Moresby Range off Chapman Valley Rd WAGGRAKINE	6532	Unknown
153153	-29.27226	114.931016	Retransmission Site Council Transfer Station Dee Street PORT DENISON	6525	Unknown
205781	-28.774885	114.588072	Light pole behind Wharf Supervisor office Connell Rd GERALDTON	6530	Unknown
205782	-28.768949	114.609465	Batavia Coast Marina Forrest St GERALDTON	6530	Unknown
205881	-28.774045	114.715027	259 (LOT 3) Edward Rd Meru GERALDTON	6532	Unknown
303827	-28.75516	114.626693	181 North West Coastal Highway GERALDTON	6530	Within 100 metres
304807	-28.804298	114.697351	Met Bureau Office Airport GERALDTON	6530	Within 10 metres
404305	-29.339495	114.990956	Jingemia Production Facility Brand Hwy DONGARA	6525	Unknown
404731	-28.9227	114.9284	Walkaway Windfarm 32 km South East of GERALDTON	6532	Within 100 metres
404814	-29.197218	115.443693	Water Tanks off Victoria Street MINGENEW	6522	Within 10 metres
404981	-28.818762	114.677691	Kelsey Jig Lot 7 Goulds Road NARNGULU	6532	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
405110	-28.842322	115.259828	Telstra Customer Erangy Spring Farm 1 via MINGENEW	6630	Within 100 metres
441355	-28.711772	114.663913	26 Tiltli Rise GERALDTON	6530	Unknown
461606	-28.773499	114.6106	GPS 17 Chapman Rd GERALDTON	6530	Unknown
480789	-28.776359	114.601483	CBH Elevator Building GERALDTON	6530	Unknown
500708	-29.192974	115.441926	Corner Victoria Road and Irwin Street MINGENEW	6522	Unknown
600037	-28.998724	115.892623	27 Km North West of MORAWA	6623	Unknown
600305	-28.559024	115.344235	Lot 100 Doogue Road TENINDEWA	6630	Unknown
600338	-28.765361	114.652828	21 Jenark Rd Woorree GERALDTON	6530	Unknown
600361	-28.505212	115.822758	Telstra Radio Terminal Fegan Rd MULLEWA	6630	Unknown
600618	-28.786873	114.696896	FESA Site Airport GERALDTON	6530	Within 100 metres
600713	-28.775429	114.609594	Water Corporation Office Cathedral St GERALDTON	6530	Unknown
600758	-28.529817	115.640022	Telstra Customer Beatty Farm MULLEWA	6630	Unknown
600774	-28.684329	114.678233	Telstra Site Moresby Range GERALDTON	6532	Unknown
600803	-28.776838	114.597478	Shiploader Wharf Area GERALDTON	6530	Unknown
600805	-29.194612	115.443135	Ambulance Centre Phillip Street MINGENEW	6522	Unknown
600818	-28.796194	114.654133	Water Meter At Lot 11 Stanfield Street GERALDTON	6530	Unknown
600819	-28.787383	114.664715	Water Meter At Lot 26 Edward Road GERALDTON	6530	Unknown



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
600820	-28.802116	114.619227	Water Meter At Lot 10 Broadhead Ave GERALDTON	6530	Unknown
600821	-28.796467	114.662014	Water Meter At Lot 14 Stanfield Street GERALDTON	6530	Unknown
600822	-28.774052	114.608243	Water Meter At Lot 20 Marine Terrace GERALDTON	6530	Unknown
600828	-28.488057	115.741406	Telstra Customer McGreggor MULLEWA	6631	Unknown
600834	-29.415423	115.015175	Telstra Customer G A Oakes DONGARA	6525	Unknown
600866	-28.77254	114.58918	Batavia Coast Fisheries Fishermans Wharf GERALDTON	6530	Unknown
600877	-29.235514	114.932246	Lot 75 Cnr Philbey Road and Brand Hwy DONGARA	6525	Unknown
600912	-28.774562	114.609531	Town Towers Building Cathedral Avenue GERALDTON	6530	Unknown
600998	-29.127128	115.72057	Telstra Customer Collins Franco Road MERKANOOKA	6623	Unknown
601000	-29.164038	115.875309	Telstra Exchange cnr Dreghorn & Ryan Rds MERKANOOKA	6623	Unknown
601079	-29.313992	114.94096	Telstra Site Cockburn Cement 7 km S of DONGARA	6525	Unknown
601118	-29.252005	114.930179	GSM site Armstrong Street DONGARA	6525	Unknown
601231	-29.264495	114.933412	48 Blenheim Road DONGARA	6525	Unknown
601371	-29.02929	114.95824	Mt Hill Borefield Intermediate Repeater Site DONGARA	6525	Unknown
601426	-28.806354	114.671831	5 Goulds Road NARNGULU	6530	Unknown



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
601432	-29.312595	114.957459	Cockburn Cement Lease Kailis Drive DONGARA	6525	Unknown
601467	-28.811057	114.686631	Weighbridge Railway Yard NARNGULU	6530	Unknown
601503	-28.807971	114.682418	Lot 41 Edward Road GERALDTON	6530	Unknown
601590	-28.786146	114.613599	Hillcrest Lodge 40 Onslow Street GERALDTON	6530	Unknown
601633	-28.598194	115.493283	ML Communications G/S Mingenew Road MULLEWA	6630	Unknown
601643	-28.53792	115.510022	Telstra Customer via MULLEWA	6630	Unknown
601647	-28.366194	115.526787	Telstra Customer Expert Electronics MULLEWA	6630	Unknown
601659	-28.53872	115.583831	262 Park Road MULLEWA	6630	Within 10 metres
601772	-28.827461	114.977256	Doogalook Elendale Road via WALKAWAY	6530	Unknown
601776	-29.198575	115.832884	West Morawa Hill 17 Km West of MORAWA	6623	Unknown
601800	-28.772283	114.61028	8 Durlacher Street GERALDTON	6530	Unknown
601869	-29.190528	115.44114	15 Williams Street MINGENEW	6522	Unknown
601879	-29.284218	115.051013	Telstra Customer Forsyth DONGARA	6525	Unknown
601908	-28.777134	114.629523	Geraldton Golf Club Pass Street GERALDTON	6530	Unknown
601934	-28.76329	114.637516	Lot 6 Allen Street GERALDTON	6530	Unknown
601948	-28.779203	114.588412	409 Marine Terrace GERALDTON	6530	Unknown
602078	-28.758492	114.631481	82 Flores Road GERALDTON	6530	Unknown
602165	-28.222505	115.561095	Telstra Customer Medbury Urawa Station MULLEWA	6630	Unknown
602183	-29.03626	115.554193	Met Bureau Site SOUTH HOLMWOOD	6522	Unknown



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
602186	-29.10905	115.318641	Met Bureau Site ARRADALE	6522	Unknown
602187	-29.06571	115.098368	Met Bureau Site TABLETOP	6525	Unknown
602188	-28.955713	115.00059	Met Bureau Site MOASCAR	6530	Unknown
602189	-28.684411	115.282032	Met Bureau Site TENINDEWA	6630	Unknown
602190	-28.75849	114.938643	Met Bureau Site TIBRADDEN	6530	Unknown
602191	-28.804699	114.697538	Met Bureau Site Airport GERALDTON	6530	Unknown
602272	-28.755588	114.635642	14 Beaver Street GERALDTON	6530	Unknown
602273	-28.770938	114.611734	Court House Marine Terrace GERALDTON	6530	Unknown
602401	-29.549378	115.04352	Telstra Customer Locn 2458 Brand Hwy Arrowsmith ENEABBA NORTH	6525	Unknown
602422	-28.279888	115.569532	Telstra Customer Preston Urawa Station MULLEWA	6630	Unknown
602435	-28.339161	115.574114	Telstra Customer Northover MULLEWA	6630	Unknown
602536	-29.063106	115.176019	Mindarra Farm Winterbottom Road Irwin Shire IRWIN	6525	Unknown
602593	-29.072756	115.357351	Bore 1/01 MINGENEW	6522	Unknown
602594	-28.883757	115.519704	CBH Tank MINGENEW	6630	Unknown
602596	-29.027402	115.556216	Coalseam Road MINGENEW	6522	Unknown
602658	-28.794115	114.620433	28 Waverley st GERALDTON	6530	Unknown
602674	-28.94457	115.787517	Telstra Customer Kowald GUTHA WEST	6623	Unknown
602754	-28.920642	114.806253	Pump House 3 McCarley Road WALKAWAY	6528	Within 10 metres
602792	-28.839569	115.002642	Rocky Peak 35 Km East of GREENOUGH	6530	Unknown



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
602834	-28.77343	114.593563	Location C Reference Station Port Area GERALDTON	6530	Unknown
602835	-28.759352	114.563171	Waverider Buoy Location A Port Area GERALDTON	0	Unknown
602836	-28.755393	114.593977	Waverider Buoy Location B Port Area GERALDTON	0	Unknown
602837	-28.757373	114.578575	Tidal Transmitter Port Area GERALDTON	0	Unknown
602862	-28.158957	115.114195	Brooks Rd YUNA	6532	Unknown
602877	-28.758358	114.562519	Tidal Transmitter Offshore Area GERALDTON	0	Unknown
602878	-28.771126	114.592837	Water Intake Live Crayfish Basin GERALDTON	0	Unknown
602899	-28.333382	115.572111	Telstra Customer Little Big Farm Lot 1 Urawa Stn Road MULLEWA	6630	Unknown
602921	-29.454468	115.524285	Arrowsmith Pump Station ARROWSMITH	6519	Unknown
602922	-29.454445	115.522223	Arrowsmith Bore ARROWSMITH	6519	Unknown
602942	-28.766048	114.564244	Waverider Buoy Location C Port Area GERALDTON	0	Unknown
602980	-28.507578	114.998272	Solar Pump Wicka Farm NABAWA	6532	Unknown
602997	-29.200927	115.792743	Victoria Loc 2016 Morowa Mingenew Road MOROWA	6623	Unknown
603003	-29.536555	115.599126	Water Corporation Headworks DOOKANOOKA	6519	Unknown
603181	-28.791086	114.623073	334 Durlacher Street GERALDTON	6530	Unknown
603200	-28.796375	114.702344	Terminal Building Airport GERALDTON	6532	Unknown
603223	-29.317393	115.03913	Hovea Production Facility Pye Road DONGARA	6525	Unknown



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
9000244	-29.431441	114.999781	Cliff Head Oil Filed Brand Highway 20 km South of DONGARA	6525	Within 10 metres
9000245	-29.45014	114.870025	Cliff Head Oil Field 12 km Offshore and 20 km South of DONGARA	null	Within 10 metres
9000935	-28.79461	114.891789	Kojerana Minnenooka Road 28km East of GERALDTON	6532	Within 100 metres
9001038	-28.49882	114.802591	Water Supply Service Tank 1.4 Km East of Shire Office NABAWA	6532	Within 10 metres
9001150	-28.78679	114.622474	Rangeway Substation Hutchison Street Rangeway GERALDTON	6530	Within 10 metres
9001211	-28.920296	114.926806	Tower 35 Alinta Wind Farm Williams Rd Walkaway 32 km SE of GERALDTON	6532	Within 10 metres
9001776	-29.472687	115.013203	Telstra Customer Lot 102, Brand Highway ARROWSMITH	6525	Within 10 metres
9001802	-28.623766	115.133543	CS7 Dampier - Bunbury Pipeline Near Eradu 40km East of GERALDTON	6630	Within 10 metres
9001817	-28.76865	114.626141	105 Pass Street GERALDTON	6530	Within 10 metres
9001938	-28.74966	114.632004	Telstra BTS Site Lot 2 - 20 Box St WEBBERTON	6530	Within 10 metres
9002204	-29.262412	115.00844	Arc Energy Process Plant Brand Highway DONGARA	6525	Within 10 metres
9003395	-28.760851	114.636307	1 Vulcan Way WEBBERTON	6530	Within 10 metres
9003968	-28.137341	115.286503	DB Gas Pipeline Site 12 27 km NE of WANDANA HILL	6532	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
9004103	-28.861345	115.232839	DB Gas Pipeline Site 13 6.5 km NNE of THE CASURINAS	6630	Within 10 metres
9004104	-29.308684	115.209831	DB Gas Pipeline Site 14 9.6 km SW of WATSONS LOOKOUT	6525	Within 10 metres
9004210	-28.443359	115.172418	DB Gas Pipeline Site 12A 9.5 km NW of BINDOO HILL	6532	Within 10 metres
9004420	-28.776702	114.603001	Port Area Dust Monitoring System Marine Terrace GERALDTON	6530	Within 10 metres
9007146	-28.515559	114.644998	Water Corporation site Off East Bunter Road, Howatharra, 18 km S of NORTHAMPTON	6532	Within 10 metres
9007147	-28.725478	114.630282	Waggrakine Tank & Pump Station North West Coastal Highway, 5.5 km NNE of GERALDTON	6530	Within 10 metres
9008285	-28.70676	114.629965	Telstra Site 169 Alexander Dr GLENFIELD	6532	Within 10 metres
9008303	-28.77346	114.626074	Telstra IBC 74 North West Coastal Hwy WONTHELLA	6530	Within 10 metres
9008533	-28.77736	114.596371	Wharf area Geraldton Port GERALDTON	6530	Within 100 metres
9008536	-28.686776	115.483901	Glenleigh Farm 1 Butterabby Road MULLEWA	6630	Within 100 metres
9009315	-29.287409	115.53111	Fairlands Farm The Midlands Road, 14 km SE of MINGENEW	6522	Within 100 metres
9009358	-28.327692	115.002945	Water Tank Behind hotel, Yuna-Tenindewa Road YUNA	6532	Within 10 metres
9009359	-28.33053	114.999588	Pump Station S of Yuna-Tenindewa Road behind silos YUNA	6532	Within 10 metres
9009719	-28.773555	114.591963	Lot 10 Reg Clarke Road GERALDTON	6530	Within 100 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
9009979	-28.79377	114.703361	Airservices VHF Tower Geraldton SGS Compound GERALDTON	6532	Within 10 metres
9010393	-28.754683	114.633421	Webborton 79 Anderson Street WEBBERTON WA 6530	6530	Within 10 metres
9010668	-28.790339	114.706087	Airservices VOR/DME Nav Site Geraldton Airport GERALDTON	6532	Within 10 metres
9010669	-28.798423	114.701787	Airservices NDB Site Geraldton Airport GERALDTON	6532	Within 10 metres
9010682	-28.948308	114.7762	Optus Guyed Mast Martin Farm Hill East 1059 Hamersley Road WALKAWAY	6528	Within 10 metres
9010866	-28.166286	115.185653	Nixon MDB 6-1 Site (90 km NE of) GERALDTON	6532	Unknown
9010871	-28.890763	115.143566	Nixon MDB 6-2 Site Walkaway-Nangetty Road (50km ESE of) GERALDTON	6630	Within 10 metres
9010872	-29.358735	115.234789	Nixon MDN 7-1 Site (90km SE of) GERALDTON	6525	Within 10 metres
9011452	-28.77754	114.625484	Telstra RBS Site Cnr Gray St and NW Coastal Hwy GERALDTON	6530	Within 10 metres
9011731	-28.779866	114.590148	Transport shed 11 Ocean St GERALDTON	6530	Within 10 metres
9012262	-29.231524	114.929776	20 Massingham Place DONGARA	6525	Within 10 metres
9012946	-29.621409	115.22593	Telstra Site Brand Hwy - 22 km North of Eeabba ARROWSMITH	6525	Within 10 metres
9013108	-28.78484	114.594868	Rail Site, Geraldton Port Boundary Opposite Shenton Street GERALDTON	6530	Within 10 metres
9013109	-28.723718	114.864553	Rail site, Geraldton Mount Magnet Road 40 m E of Kojarena Road Sth KOJARENA	6532	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
9013110	-28.708866	114.909528	Rail site, Geraldton Mt Magnet Road 150 m W of Durawah Northern Gully Road NORTHERN GULLY	6532	Within 10 metres
9013111	-28.695586	115.042298	Rail site, 130 m E of level crossing Eradu Road North ERADU	6532	Within 10 metres
9013112	-28.678974	115.210542	Rail site, Geraldton Mt Magnet Road 2.9 km ENE of Casuarinas Road TENINDEWA	6630	Within 10 metres
9013113	-28.617978	115.374556	Rail site, Geraldton Mt Magnet Road 180 m NE of Tenindewa Road TENINDEWA	6630	Within 10 metres
9013114	-28.54862	115.500591	Rail site, Geraldton Mt Magnet Road 290 m E of Lovers Lane MULLEWA	6630	Within 10 metres
9013115	-28.634667	115.644066	Rail site, Mullewa Wubin Road 120 m NW of Wilroy Kockatea Road PINDAR	6630	Within 10 metres
9013116	-28.793912	115.749889	Rail site, Tardun Pindar Road 420 m N of Mullewa Wubin Road TARDUN	6630	Within 10 metres
9013117	-28.899763	115.86348	Rail Site, Canna CBH Near Cnr Canna North East & Fabling Roads CANNA	6623	Within 10 metres
9013554	-28.777024	114.602338	Cnr Ian Bogle Road & Marine Terrace GERALDTON	6530	Within 10 metres
9013780	-29.137229	115.423886	Guyed Mast Telara Rd, 6 Km NNE of MINGENEW	6522	Within 10 metres
9014053	-28.70896	114.991272	ML Communications Site Mullewa Road, 5 km W of ERADU	6532	Within 100 metres
9014140	-28.711711	114.9882	Optus Tower Eradu Lot 11 Geraldton-Mt Magnet Road WICHERINA	6532	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
9014315	-28.548407	115.496694	Optus Guyed Mast Cnr Lovers Lane and Geraldton Mt Magnet Road MULLEWA	6630	Within 10 metres
9014407	-28.594861	115.608745	WNR2 Site off Wubin-Mullewa Rd 11 km SE of MULLEWA	6630	Within 10 metres
9014408	-28.90575	115.830133	WNR3 Site off Wubin-Mullewa Rd 3 km WSW of CANNA	6623	Within 10 metres
9014518	-28.790815	114.670056	Optus Lattice Tower 217 Edward Road MERU	6532	Within 10 metres
9014574	-28.65847	115.662699	Dean Radio Site Drummond Road PINDAR	6630	Within 100 metres
9014892	-28.795939	114.702647	Terminal Building Geraldton Airport, Airport Road MOONYOONOOKA	6532	Within 10 metres
9014956	-29.431783	115.004468	Optus Tower Arrowsmith 27753 Brand Highway ARROWSMITH	6525	Within 10 metres
9014983	-28.777762	114.603755	12 Francis Street GERALDTON	6530	Within 10 metres
9015193	-28.991542	114.960297	Mumbida Substation North of Connolly Road MOUNT HILL	6532	Within 100 metres
9015207	-28.996898	114.958816	Mumbida Windfarm Off Burma Road, 16 km ESE of WALKAWAY	6532	Within 10 metres
9015350	-28.743217	114.747937	NBN Co Site Lot 2406, 460 Giles Road MOONYOONOOKA	6532	Within 10 metres
9015351	-28.854511	114.64357	NBN Co Site Lot 12116, Mersey Drive CAPE BURNEY	6532	Within 10 metres
9015498	-29.003045	114.951223	Mumbida Communications Tower off Connolly Road MOUNT HILL GERALDTON	6532	Within 10 metres
9015563	-28.706298	114.629814	NBN Co Site 169 Alexander Dr GLENFIELD	6532	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
9015754	-28.776495	114.591823	Lot 10, Reg Clarke Drive, West End GERALDTON	6530	Within 10 metres
9015939	-29.27109	114.931592	NBN Co Site Lot 302, Dee Street PORT DENISON	6525	Within 10 metres
9015941	-29.199216	115.441709	NBN Co Site Lot M444 Victoria Road MINGENEW	6522	Within 10 metres
9015942	-29.192408	115.236978	NBN Co Site Lot 3558 Midlands Road MILO	6525	Within 10 metres
9015993	-28.777922	114.610254	Nagle College Stanford Street GERALDTON	6530	Within 10 metres
9015994	-28.768679	114.618144	St Patricks College Bayly Street GERALDTON	6530	Within 10 metres
9016024	-28.79317	114.695252	Deepdale Road Power Station Deepdale Road GERALDTON	6532	Within 100 metres
9016393	-28.806004	114.632056	Pump Station Corner of Ackland Road and Iduna Road GERALDTON	6530	Within 10 metres
9016691	-28.771604	114.596902	Geraldton Port 298 Marine Terrace GERALDTON	6530	Within 100 metres
9016740	-28.478111	114.638559	Telstra RBS Site North West Coastal Hwy BOWES	6535	Within 10 metres
9017087	-28.776711	114.591306	Karara Cart Tipper 298 Marine Terrace GERALDTON	6530	Within 10 metres
9017116	-28.770171	114.613748	66 Chapman Rd GERALDTON	6530	Within 10 metres
9017244	-28.889306	115.117918	Mungarra Power Station Nangetty Road, 31 km East of WALKAWAY	6630	Within 100 metres
9017424	-28.894168	114.728884	NBN Co Site 301 Georgina Road GEORGINA	6532	Within 10 metres
9017574	-28.78394	114.597804	Telstra Site 211 Shenton St BEACHLANDS	6530	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
9017579	-28.672521	114.623045	Telstra Site Lot 4 Dulchev Way GLENFIELD	6532	Within 10 metres
9017938	-29.045905	115.350437	Intelsat 11 metre ES USN Yatharagga Site North Depot Hill Road MINGENEW	6522	Within 10 metres
9018078	-29.046027	115.350124	Intelsat 2.4 metre ES, USN Yatharagga Site North Depot Hill Road MINGENEW	6522	Within 10 metres
9018079	-29.046187	115.350118	Intelsat 4.8 metre ES, USN Yatharagga Site North Depot Hill Road MINGENEW	6522	Within 10 metres
9019754	-28.763215	114.649262	14 Jenark Road WOORREE	6530	Within 100 metres
9020539	-28.765764	115.579794	Messina Nominees Comm Site Freeman Road 700 m WSW of Kockatea Road Intersection WONGOONDY	6630	Within 10 metres
9020818	-28.675788	114.631034	Kalbarri Express Freight Office 6 Cooper Street WAGGRAKINE	6530	Within 10 metres
9020924	-28.222881	115.132174	DGPS Site 964 Dartmoor Road East YUNA	6532	Within 10 metres
9021206	-29.140882	115.739427	DGPS Site off Franco Road 3 km North of Mingenew Morawa Road Intersection MERKANOOKA	6623	Within 100 metres
9021426	-28.771951	114.594099	KML Storage Shed Adjacent GPA Berth 6 Reg Clarke Road GERALDTON	6530	Within 10 metres
9021562	-28.888033	115.926563	DGPS Site Fabling Road 1.9 km NNE of Ways Road Intersection CANNA	6623	Unknown
9021563	-29.497506	115.522042	DGPS Site Lot 7093 Hydraulic Road, 12 km WSW of ARRINO	6519	Within 10 metres
9022573	-28.785247	114.732992	Geraldton City Speedway Race Control Building 6 Bernie Clune Drive MOONYOONOOKA	6532	Within 100 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
9022843	-28.78267	114.579444	Point Moore Lighthouse Marine Terrace GERALDTON	6530	Within 10 metres
9023452	-29.125387	115.420665	729 Mingenew-Mullewa Road YARRAGADEE	6522	Within 100 metres
9023613	-29.109847	115.280424	Lot 9574 Allanooka Springs Road Opp. Erangy Spring Road YARRAGADEE	6522	Within 10 metres
9024059	-28.768219	114.612032	Western Australian Museum Geraldton 2 Museum Place GERALDTON	6530	Within 10 metres
9024270	-29.315922	115.066541	Apium Repeater site (18m lattice tower) 353 Pye Rd MOUNT ADAMS	6525	Unknown
9025993	-29.194338	115.443591	Telstra Temporary 80 Phillip Street MINGENEW	6522	Within 10 metres
9026011	-29.336736	115.545305	148 Yandanooka West Road BUNDANOON	6522	Within 100 metres
9026800	-28.911285	114.735504	Greenough Electrical Repairs 190 Georgina Road GREENOUGH	6528	Within 10 metres
9027090	-28.778837	114.596245	ATOM Terminal 401 Marine Terrace West GERALDTON	6530	Within 10 metres
9027093	-28.724882	114.63179	Chapman Substation Monopole Chapman Valley Road GERALDTON	6530	Within 10 metres
9027094	-28.889488	115.118652	Mungarra GT Substation Tower Walkaway- Nangety Rd WEST CASUARINAS	6630	Within 10 metres
9027489	-28.558289	115.522811	Police Radio Site Old Mingenew Road MULLEWA	6630	Within 10 metres
9027493	-28.399295	114.895057	Naraling RBS Chapman Valley Road NARALING	6532	Unknown
9027567	-28.749657	114.619946	Geraldton Serviced Apartments 298 Chapman Road GERALDTON	6530	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
9900079	-28.766498	114.619371	Mobile Spectrum Licensing Site GERALDTON	6530	Unknown
9909281	-29.566503	115.114631	Mobile Spectrum Licensing Site BRAND HIGHWAY	6525	Unknown
9911628	-28.665171	115.264277	Mobile Spectrum Licensing Site GERALDTON - MOUNT MAGNET RD	6630	Unknown
9911648	-28.750573	114.818966	Mobile Spectrum Licensing Site GERALDTON - MOUNT MAGNET RD	6530	Unknown
9911656	-28.899914	114.694402	Mobile Spectrum Licensing Site NORTH WEST COASTAL HIGHWAY	6530	Unknown
9911720	-29.139513	114.902764	Mobile Spectrum Licensing Site BRAND HIGHWAY	6525	Unknown
9911750	-29.292979	115.008758	Mobile Spectrum Licensing Site BRAND HIGHWAY	6525	Unknown
9911761	-29.373224	115.006775	Mobile Spectrum Licensing Site BRAND HIGHWAY	6525	Unknown
9911774	-29.466127	115.016766	Mobile Spectrum Licensing Site BRAND HIGHWAY	6525	Unknown
9911793	-29.532372	115.05597	Mobile Spectrum Licensing Site BRAND HIGHWAY	6525	Unknown
9911817	-29.619626	115.211435	Mobile Spectrum Licensing Site BRAND HIGHWAY	6525	Unknown
9915497	-28.540177	115.51089	Mobile Spectrum Licensing Site GERALDTON MOUNT MAGNET ROAD	6630	Unknown
10000002	-28.77766	114.63426	Optus 50m Lattice Tower 71 Eastward Road Utakarra	null	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
10000361	-29.306817	115.092972	Comms Hut 353 Pye Road Mount Adams	null	Within 10 metres
10000726	-28.49706	114.800231	Telstra Site 3354 Chapman Valley Road Nabawa Chapman Valley	null	Within 10 metres
10002029	-29.271117	114.931749	Council Site Golf Course Road PORT DENISON	null	Within 10 metres
10002128	-28.888708	115.11744	Mungarra Power Station DBP Site 31 km East of Walkaway West Casuarinas	null	Within 10 metres
10002160	-29.191865	115.44315	Structure 2 13 Shenton St Mingenew	null	Within 100 metres
10002264	-28.773133	114.613095	8 Anzac Tce GERALDTON	null	Within 10 metres
10002698	-28.767102	114.61481	Kmart Northgate Cnr Chapman Rd and View St GERALDTON	null	Within 10 metres
10002922	-29.29248	115.59116	Telstra Site 352 Yandanooka Melara Road Yandanooka	null	Within 10 metres
10003368	-29.045764	115.348744	13m S/X band antenna SSC Space US AUWA01 Depot Hill Road Yarragadee	null	Within 10 metres
10003369	-29.045394	115.349303	7.3m S/X band antenna SSC Space US AUWA02 Depot Hill Road Yarragadee	null	Within 10 metres
10003370	-29.045936	115.349339	13.2m Ka band antenna SSC Space US AUWA03 Depot Hill Road Yarragadee	null	Within 10 metres
10003371	-29.045114	115.354314	13.5m S band antenna SSC Space AU YSS01 Depot Hill Road Yarragadee	null	Within 10 metres
10003566	-28.984428	114.964492	WTG16 Mumbida Wind Farm Connolly Road Mount Hill	null	Within 10 metres
10004243	-29.126669	115.717781	433 Franco Road Merkanooka	null	Within 10 metres
10005662	-29.04491	115.356228	WA Space Centre North Depot Hill Rd MINGENEW	null	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
10006601	-28.75783	114.626	The Good Guys Geraldton Geraldton Homemaker Centre 208-210 North West Coastal Hwy GERALDTON	null	Within 10 metres
10007755	-28.7207	114.5902	Waverider Buoy Northern Channel 6.4 km N of Geraldton	null	Within 10 metres
10007756	-28.7767	114.6031	Port Authority Building 298 Marine Terrace Geraldton	null	Within 10 metres
10007757	-28.7568	114.5656	Waverider Buoy Channel Entrance 5 km NW of Geraldton	null	Within 10 metres
10007828	-28.785	115.8446	Site 739 Pallotine Road TARDUN	null	Within 10 metres
10008091	-28.773858	114.626197	70 North West Coastal Highway Geraldton	null	Within 100 metres
10008131	-28.535826	115.262804	Johnson Road Tenindewa	null	Within 10 metres
10008527	-29.230787	115.532501	Erregulla Farms 2 Switchback Road Mingenew	null	Within 10 metres
10009446	-29.253889	114.920578	ACORN RADAR Seaspray Beach Church Street Dongara	null	Within 10 metres
10009447	-29.2825	114.919503	ACORN RADAR Surf Life Saving White Tops Drive Dongara	null	Within 10 metres
10009718	-29.599102	115.35459	DGPS Site Lot 10206 Skipper Road ARROWSMITH EAST	null	Within 10 metres
10009961	-29.311478	114.944437	Cockburn Cement Plant Kailis Drive PORT DENISON	null	Within 10 metres
10010064	-28.7768	114.6269	ALDI Wonthella 81 - 85 North West Coastal Hwy WONTHELLA	null	Within 10 metres
10010836	-28.816188	114.633564	Logic IT Solutions Awanui Street WANDINA	null	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
10010864	-28.593461	114.757408	C. J. Stokes and Son YETNA Chapman Valley Way YETNA	null	Within 10 metres
10011107	-28.77372	114.614	37 Sanford St GERALDTON	null	Within 10 metres
10011728	-28.7729	114.6096	102 Marine Terrace GERALDTON	null	Within 10 metres
10011789	-28.903209	115.107991	Greenough River Solar Farm Dirt Rd WEST CASUARINAS	null	Within 10 metres
10012069	-28.776756	114.603184	MWPA admin building 298 Marine Terrace Geraldton	null	Within 10 metres
10012783	-28.7612	114.62398	BCF Geraldton 175 North West Coastal Highway WONTHELLA	null	Within 10 metres
10013493	-29.21926	115.09195	Telstra Guyed Mast behind Irwin Exchange building Midlands Road Milo	null	Within 10 metres
10013879	-29.010417	115.341708	Capricorn Space AGN-W Site Depot Hill Road MINGENEW	null	Within 100 metres
10014721	-28.571143	115.028894	Seacontainer / 70m Mast 1.6km East of Cnr Baugh Road & Station Valentine Road Valentine	null	Within 10 metres
10014722	-29.358744	115.235531	40m Mast Mt Adams Mount Adams	null	Within 10 metres
10014723	-29.472503	115.340617	20m Mast 1543 Tomkins Road Arrowsmith East	null	Within 10 metres
10014731	-28.771817	114.59675	Shiploader NE end of Graham Road GERALDTON	null	Within 100 metres
10014838	-28.757872	114.625455	Supercheap Auto Geraldton 208 North West Coastal Highway Webberton	null	Within 10 metres
10015577	-28.539487	115.516964	LPON Site 55 Maitland Road MULLEWA	null	Within 10 metres
10015662	-29.044916	115.350806	Antenna AUS01 16.4M GD Satcom Yarragadee	null	Within 10 metres



SITE ID	LATITUDE (°)	LONGITUDE (°)	NAME	POSTCODE	SITE PRECISION
10015663	-29.044916	115.350447	Antenna AUS02 13M RF Systems Yarragadee	null	Within 10 metres

Table A-2: Radio & TV Broadcast Transmitters – Mingenew (ACMA, retrieved Sept 2024)

Site ID: 41175

Site Name: Broadcast Site 8 km SSW of MINGENEW

Area Served: Mingenew

Latitude: -29.252185°

Longitude: 115.399421°

Distance from this location to nearest Project wind turbine = 30 km.

Purpose	Callsign	Frequency	Power	Polarisation	Antenna Pattern	Antenna Height
National	ABC46	655.500 MHz	50 W	Horizontal	Directional	32 m
National	SBS47	662.500 MHz	50 W	Horizontal	Directional	32 m
Commercial	GTW48	669.500 MHz	50 W	Horizontal	Directional	32 m
Commercial	WOW49	676.500 MHz	50 W	Horizontal	Directional	32 m
Commercial	GDW50	683.500 MHz	50 W	Horizontal	Directional	32 m



Appendix B Figures

Electromagnetic Interference (EMI) Assessment

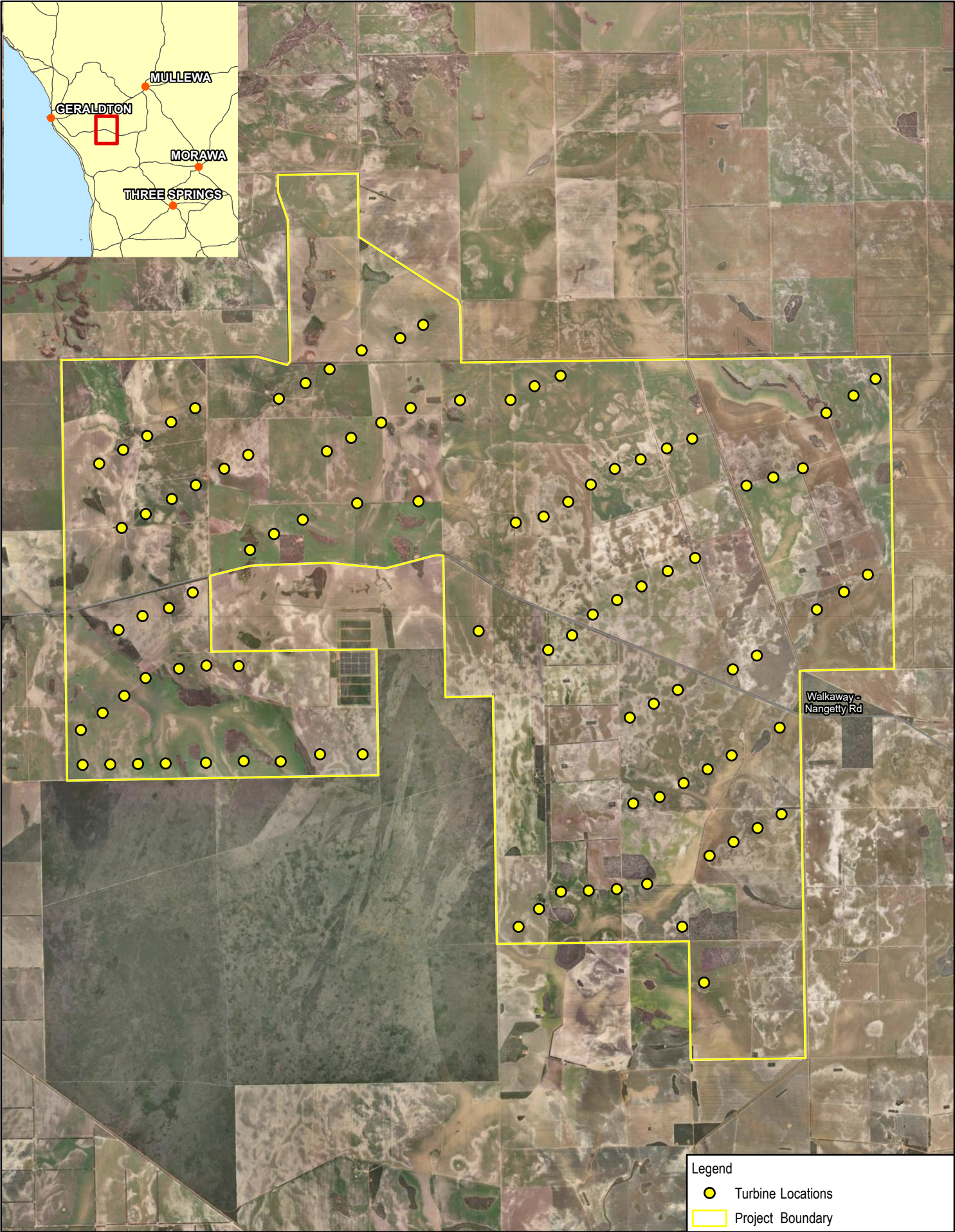
Mid-West Wind Farm

Mid-West Wind Farm Pty Ltd

SLR Project No.: 675.072296.00007

11 June 2026





6800000

6800000



	N
	0 0.9 1.8 km
Coordinate System:	GDA2020 MGA Zone 50
Scale:	1:100,000 at A4
Project Number:	072296
Date Drawn:	28-Apr-2026
Drawn by:	JH
Reviewed by:	AG

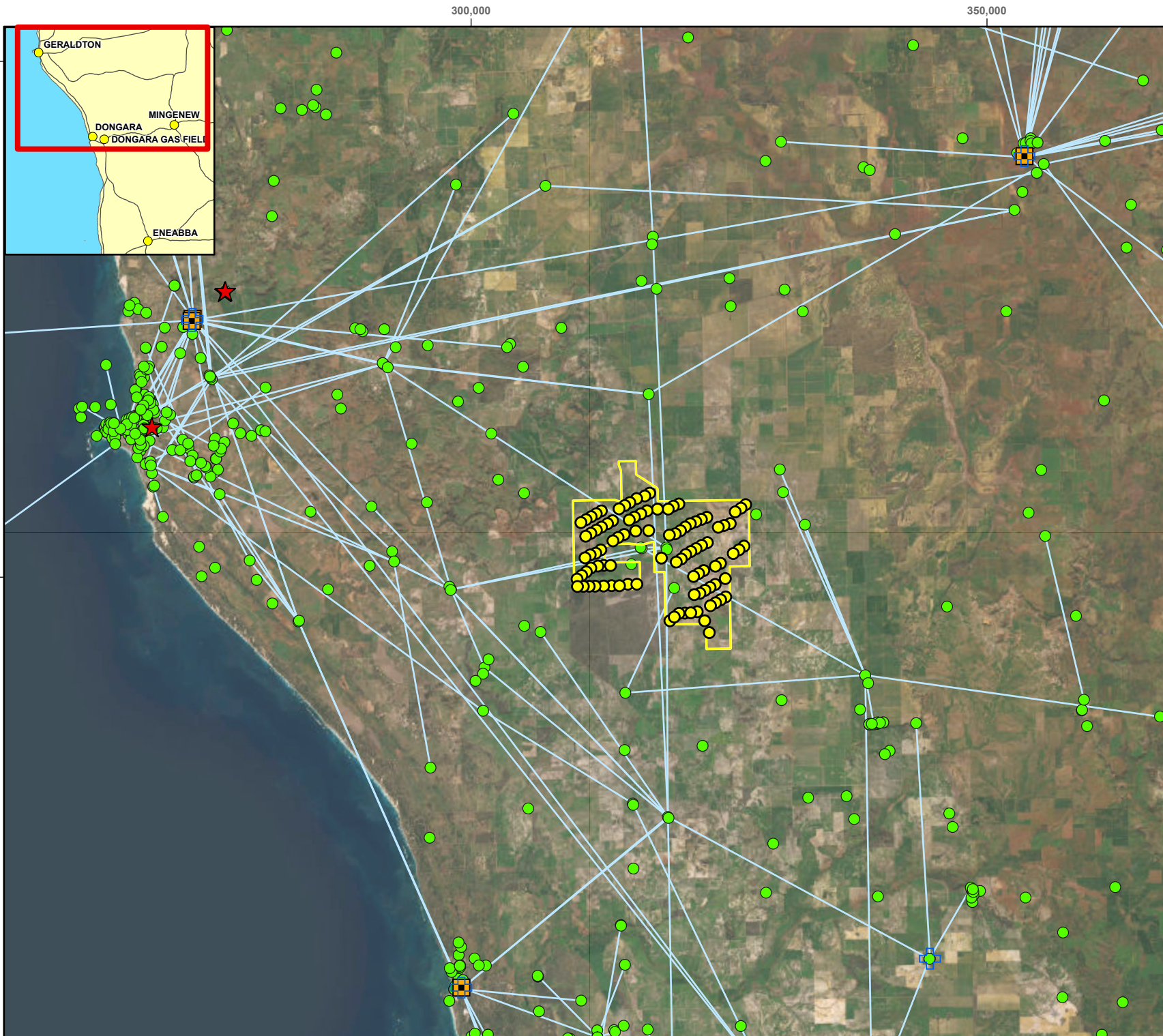
Service Layer Credits:
Earthstar Geographics

Vestas
Mid West Wind Farm

Wind Turbine Generator (WTG) Layout

FIGURE B-1

DISCLAIMER: All information within this document may be based on external sources. SLR Consulting Pty Ltd makes no warranty regarding the data's accuracy or reliability for any purpose.



Vestas

Mid West Wind Farm

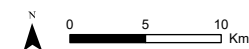
ACMA-Licensed services

FIGURE B-2

LEGEND

- ACMA Sites
- ACMA Links
- ★ AM
- FM
- ⊕ Digital TV
- Turbine Locations
- Project Boundary

Service Layer Credits:
Earthstar Geographics, SLIP



Coordinate System: GDA2020 MGA Zone 50

Scale: 1:500,000 at A4

Project Number: 072296

Date Drawn: 28-Apr-2026

Drawn by: JH

Reviewed by: AG



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Appendix C Stakeholder Consultation Summary

Electromagnetic Interference (EMI) Assessment

Mid-West Wind Farm

Mid-West Wind Farm Pty Ltd

SLR Project No.: 675.072296.00007

11 June 2026



Table C-1. Mid-West Wind Farm Stakeholder Consultation Summary for Electromagnetic Interference (EMI)

Stakeholder Name	Initial Contact Date	Format	Project Information Provided	Stakeholder Response	Project Development Next Steps
Telstra Limited (Wind Farm Enquiries)	19/02/24	Email	Project information letter requesting feedback. Native format geospatial data showing the Project's wind turbine (revised) layout.	There are no expected impacts to Telstra's Mobile network due to this wind farm based on the turbine locations provided. Based on the turbine locations provided, two of our network radio paths is impacted: 1) Nangetty Exchange (36527) to Allanooka Exchange(37661), 1800 MHz. 2) Nangetty Exchange (36527) to Mungarra Power Station (10002128), 10.6 GHz. A detailed analysis of the full power coordination impact (Low Frequency Induction (LFI) and/or Earth Potential Rise (EPR)) of the wind farm development is required. This includes location of the wind farm switch yard, the route and potential of any associated HV transmissions lines and the LFI and EPR impact on any Telstra plant they may affect.	Incorporate Telstra's feedback into the Project's final wind turbine layout to mitigate point-to-point radiocommunications path interference. Adjust (microsite) wind turbine locations as required. The turbine blade extent should be at least 150 m away from the radio path. The 1st and 2nd Fresnel zones of the radio path must be free from obstructions. Provide analysis of LFI and EPR during the Project's detailed design activities.



Stakeholder Name	Initial Contact Date	Format	Project Information Provided	Stakeholder Response	Project Development Next Steps
Australian Gas Infrastructure Group (AGIG)	20/02/24	Email	Project information letter requesting feedback. Native format geospatial data showing the Project's wind turbine layout.	No EMI concerns raised. In their response AGIG stated, "There has been several other windfarms developed in, and around and over land containing the DBNGP and we have managed to mitigate risks created by such developments." AGIG's response also included: - specific electrical design requirements imposed by the S41 approval process under the Dampier Bunbury Pipeline Act, - pipeline corrosion protection design requirements for cathodic protection design, - civil design requirements for pipeline crossings during wind farm construction and operation.	Incorporate AGIG's feedback into the Project's detailed design specifications.
Synergy (Mungurra Power Station) on behalf of Western Power	28/11/24	Email	Project information letter requesting feedback. Native format geospatial data showing the Project's wind turbine layout.	No response received.	Initiate consultation again prior to commencing Project detailed design.



Stakeholder Name	Initial Contact Date	Format	Project Information Provided	Stakeholder Response	Project Development Next Steps
Geoscience Australia	28/11/24	Email	Project information letter requesting feedback. Native format geospatial data showing the Project's wind turbine layout.	No concerns raised. The Project is of sufficient distance away from the CSIRO Muchison-astronomy Observatory to not create any impact.	No further action required.
Dept of Fire and Emergency Services	28/11/24	Email	Project information letter requesting feedback. Native format geospatial data showing the Project's wind turbine layout.	DFES conclude the Project, "should have only a minimal effect on the Department of Fire and Emergency Services (DFES) VHF high-band communication in this region. ... DFES do not have any point-to-point links that would be affected by the proposal, however DFES do have standalone a number of VHF services from several sites where this proposed wind farm falls inside the coverage radius of these services... it is unlikely that these would experience any degradation".	No further action required.
Bureau of Meteorology	11/12/24	Email	Project information letter requesting feedback. Native format geospatial data showing the Project's wind turbine layout.	Impacts to flood warning network (FWN) fixed links are manageable with the proposed WTG layout. Impacts to Geraldton weather radar are more significant. Vestas is engaging with BoM to define a project-specific solution.	Stakeholder consultation ongoing to implement mitigations for managing impacts to Geraldton weather radar. This may include the installation of up to two automatic weather stations with



Stakeholder Name	Initial Contact Date	Format	Project Information Provided	Stakeholder Response	Project Development Next Steps
					cameras at specific locations – technical details to be determined in coordination with BoM.
St John Ambulance	11/12/24	Email	Project information letter requesting feedback. Native format geospatial data showing the Project's wind turbine layout.	No response received.	Initiate consultation again prior to commencing Project detailed design.
Western Australia Police Force	11/12/24	Email	Project information letter requesting feedback. Native format geospatial data showing the Project's wind turbine layout.	WA Police stated, "Content and information supplied in the package was reviewed and deemed to be innocuous to the WA Police network." "Should the content parameters change, please touch base with us for re-assessment." "RES feedback did raise concern about the building (stage zone for cranes etc) and possibility of this interfering with the comms pathways. As such, we request this be kept in mind when building."	Initiate consultation again during Project construction planning activities.
Royal Flying Doctor Service	11/12/24	Email	Project information letter requesting feedback.	Confirmation of receipt of enquiry received by SLR. No further response provided.	Initiate consultation again prior to commencing Project detailed design.



Stakeholder Name	Initial Contact Date	Format	Project Information Provided	Stakeholder Response	Project Development Next Steps
			Native format geospatial data showing the Project's wind turbine layout.		



Appendix D References

Electromagnetic Interference (EMI) Assessment

Mid-West Wind Farm

Mid-West Wind Farm Pty Ltd

SLR Project No.: 675.072296.00007

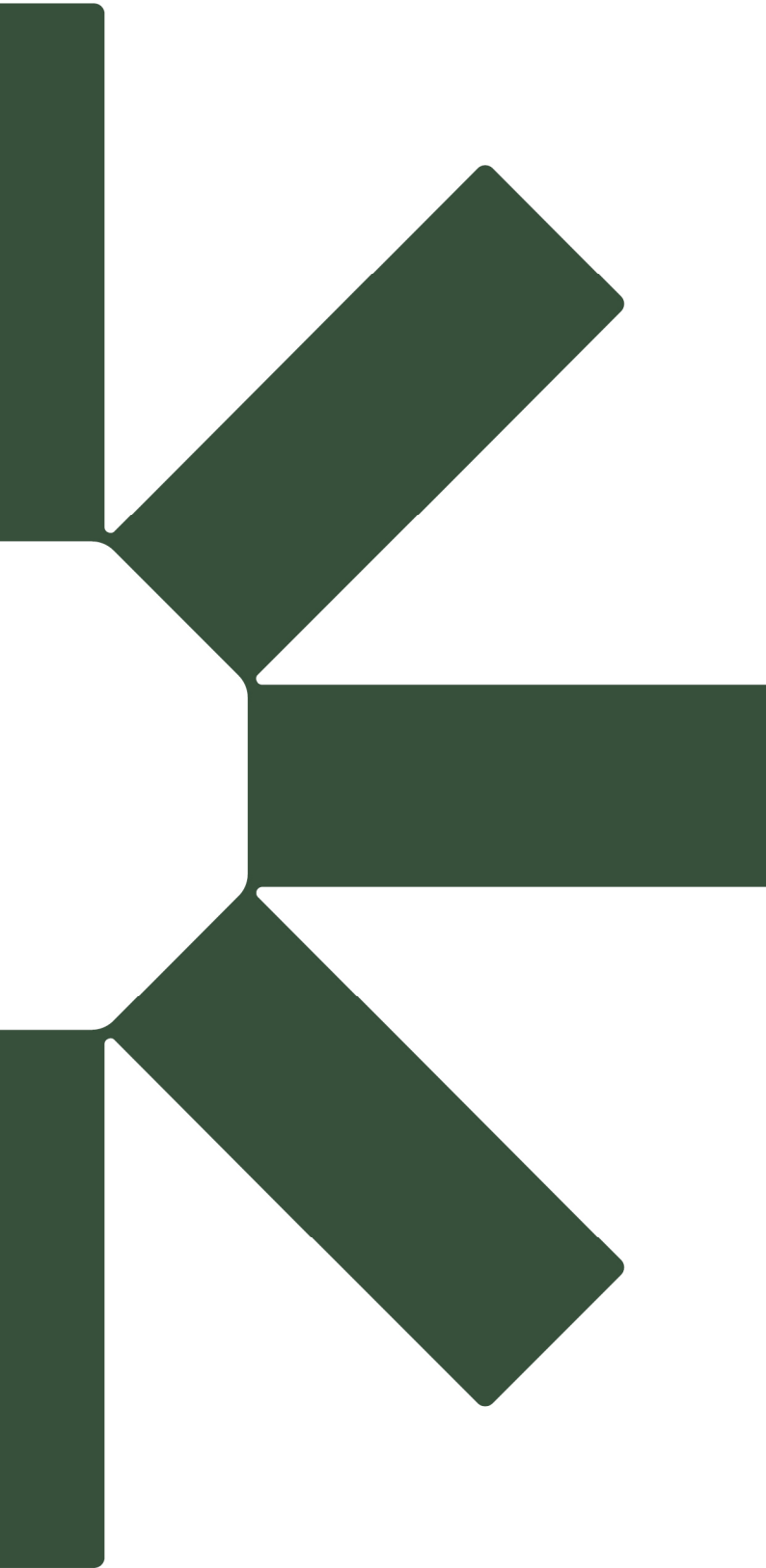
11 June 2026



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