



**Notes:**

1. FOR INFORMATION PURPOSES ONLY.
2. BOUNDARIES, CONTOURS AND OTHER BASE INFORMATION SHOWN IS INDICATIVE ONLY AND PRIMARILY INFORMED BY AERIAL LIDAR SURVEY BY SYNERGY POSITIONING SYSTEMS LTD IN APRIL 2016.
3. COORDINATES SHOWN ARE IN TERMS OF MT EDEN 2000 CIRCUIT AND LEVELS ARE RELATIVE TO THE AUCKLAND 1946 VERTICAL DATUM.
4. THE PROPOSED ROAD ALIGNMENT, TURBINE PLATFORMS, AND OVERALL EARTHWORKS ARE BASED ON AN INDICATIVE ROAD ALIGNMENT AND REMAIN SUBJECT TO DETAILED DESIGN.

**LEGEND**

- EXISTING PROPERTY BOUNDARY
- HDC/MPDC TERRITORIAL BOUNDARY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- - - - - EXTENT OF EARTHWORK
- ⊗ PROPOSED TURBINE LOCATION
- EXISTING TRANSPOWER NATIONAL GRID LINES
- PROPOSED STAGE 1 ROAD CENTER AND EDGE OF CARRIAGEWAY
- EXISTING FENCE
- ⊗ POTENTIAL QUARRY SITE
- ⊗ POTENTIAL CLEANFILL SITE
- EXISTING CULVERT
- PROPOSED UPGRADED CULVERT

DESCRIPTION OF WORKS	UNIT	TOTAL
TOTAL ROAD LENGTH	m	18,900
TOTAL EARTHWORKS AREA	m <sup>2</sup>	460,000
TOTAL CUT VOLUME	m <sup>3</sup>	900,000
TOTAL ENGINEERED FILL VOLUME	m <sup>3</sup>	113,500
TOTAL CLEANFILL VOLUME	m <sup>3</sup>	786,500

NOTE ALL VOLUME ESTIMATES ARE BASED ON A COMPARISON BETWEEN EXISTING LEVELS AND PROPOSED FINISHED SURFACE LEVELS, AND DO NOT ACCOUNT FOR SUBGRADE CUT, BULKING OR COMPACTION FACTORS.

OVERALL EARTHWORKS AREA AND VOLUME ESTIMATES INCLUDE 20% CONTINGENCY FOR ADDITIONAL EARTHWORKS AS MAY BE NECESSARY THROUGH DETAILED DESIGN.

A	RESOURCE CONSENT	JT	15.06.18
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REV:	DESCRIPTION:	BY:	DATE:
	STATUS:		
	<b>RESOURCE CONSENT</b>		

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**CLIENT:**  
 VENTUS ENERGY (NZ) LTD  
 10/215 ROSEDALE ROAD, ALBANY  
 AUCKLAND 0632

**SURVEYOR:**  
 SYNERGY POSITIONING SYSTEMS LTD  
 3/52 ARRENWAY DRIVE, ALBANY,  
 AUCKLAND 0632

**SITE:**  
 KAIMAI WIND FARM  
 ROTOKOHU ROAD, PAEROA

**TITLE:**  
 PRELIMINARY CIVIL ENGINEERING  
 DRAWINGS

**SUBTITLE:**  
 GENERAL ARRANGEMENT PLAN

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:20000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:		REVISION:
T15022	200		A