

19 March 2019

Delivered via email: eloise@kineticenvironmental.co.nz

Dear Eloise,

**Proposed Upgrade of McPherson Rd/SH2 intersection in relation to the operation of McPherson Quarry -
47 McPherson Road, Mangatawhiri**

Thank you for submitting your client's proposal to the NZ Transport Agency (Transport Agency) for comment. As you will appreciate, millions of dollars are invested in the transport network each year and the Transport Agency has an interest in ensuring this investment is not compromised, including by ensuring land use and subdivision do not impact on the safety and efficiency of the transport network.

The Transport Agency understands your client is seeking resource consent to extract a yearly tonnage of 492,000 from McPherson Quarry. This proposal includes modifying the McPherson Road intersection with State Highway 2 to include a right turn bay, short deceleration lane for the left turn into McPherson Road and earthworks to maintain sight distances from the intersection.

The key issue for this proposal is achieving appropriate sight distances for westbound traffic on SH2 to slow-moving vehicles that have already turned right out of McPherson Road. Based on Austroads 2016 Part 3, the stopping sight distance for a car travelling at 90 km/h with a reaction time of 2.5 seconds is 151 m. Following initial consultation with the Transport Agency plans have been provided which demonstrate the required 151 metre sight distance can be met.

State Highway 2 in this location is declared a limited access road under the Government Rounding Powers Act 1989 (GRPA). Section 91 of the GRPA enables the Transport Agency to authorise the use of a crossing place on a limited access road, impose conditions on its usage, specify the location of a crossing place or cancel the right to use any crossing place if legal access is available from another road. In accordance with Section 92 of the GRPA, no person may drive or move any vehicle or animal, or permit any vehicle or animal to be driven or moved, on to or from any limited access road except at any crossing place authorised by the Transport Agency.

Based on the information provided, the Transport Agency requires the following conditions to be met so as to avoid/mitigate effects on the transport network. Subject to these conditions being met, the Transport Agency is **not opposed** to the proposal as detailed in the application prepared by Opus for the continued extraction and processing of a high-quality source of aggregate and the associated intersection upgrade, dated 15 August 2017, and further information received 21 January 2019.

Conditions

1. No works shall be undertaken within State Highway 2 without the prior approval of the NZ Transport Agency pursuant to Section 51 of the GRPA. A Traffic Management Plan and Consent to Work on the Highway shall be submitted to and approved by the Transport Agency at least seven working days prior to the commencement of any works on the state highway.
2. The annual haulage from McPherson Quarry shall be limited to 492,000 tonnes per year.
3. Detailed engineering design plans for the intersection must be submitted to the New Zealand Transport Agency for approval prior to any works associated with its construction commencing. Detailed design should consider, but not be limited to the following:
 - Superelevation and drainage for surface water on the pavement as per Austroads guidelines;
 - Heavy vehicle turning paths;
 - Cross-sectional drawings to indicate batter slopes, drainage lane width and property boundaries;
 - Traffic movement at the intersection for calculation of right turn bay length;
 - Re-alignment of guardrail.
 - An advance warning sign for heavy vehicle crossing as per MOTSAM (sign to be located to the west of the SH2/McPherson Road intersection)
4. An independent safety audit shall be conducted during detailed design of the intersection with State Highway 2 and post construction. Each audit shall be carried out by an appropriately qualified auditor experienced with intersection design and appointed in consultation with the Transport Agency. Any recommendations made by the auditor that require changes to design and construction shall be approved by the Transport Agency.
5. Drawings provided indicate the sightlines are extending into private property. The applicant shall provide evidence that batter slopes and vegetation will not obstruct the required sight lines of 151 metres in perpetuity.

To apply for any necessary approvals or for confirmation that the above conditions have been met, please contact the Transport Agency directly on consentsandapprovals@nzta.govt.nz or call 07 958 7220.

Please be aware that this response is the Transport Agency's current view of the situation. If your application changes or is put on hold for any length of time, the Transport Agency may need to review the application again. Thank you for undertaking consultation with us. Please feel free to contact me if you have any questions or require further information.

Yours sincerely



Emily Hunt

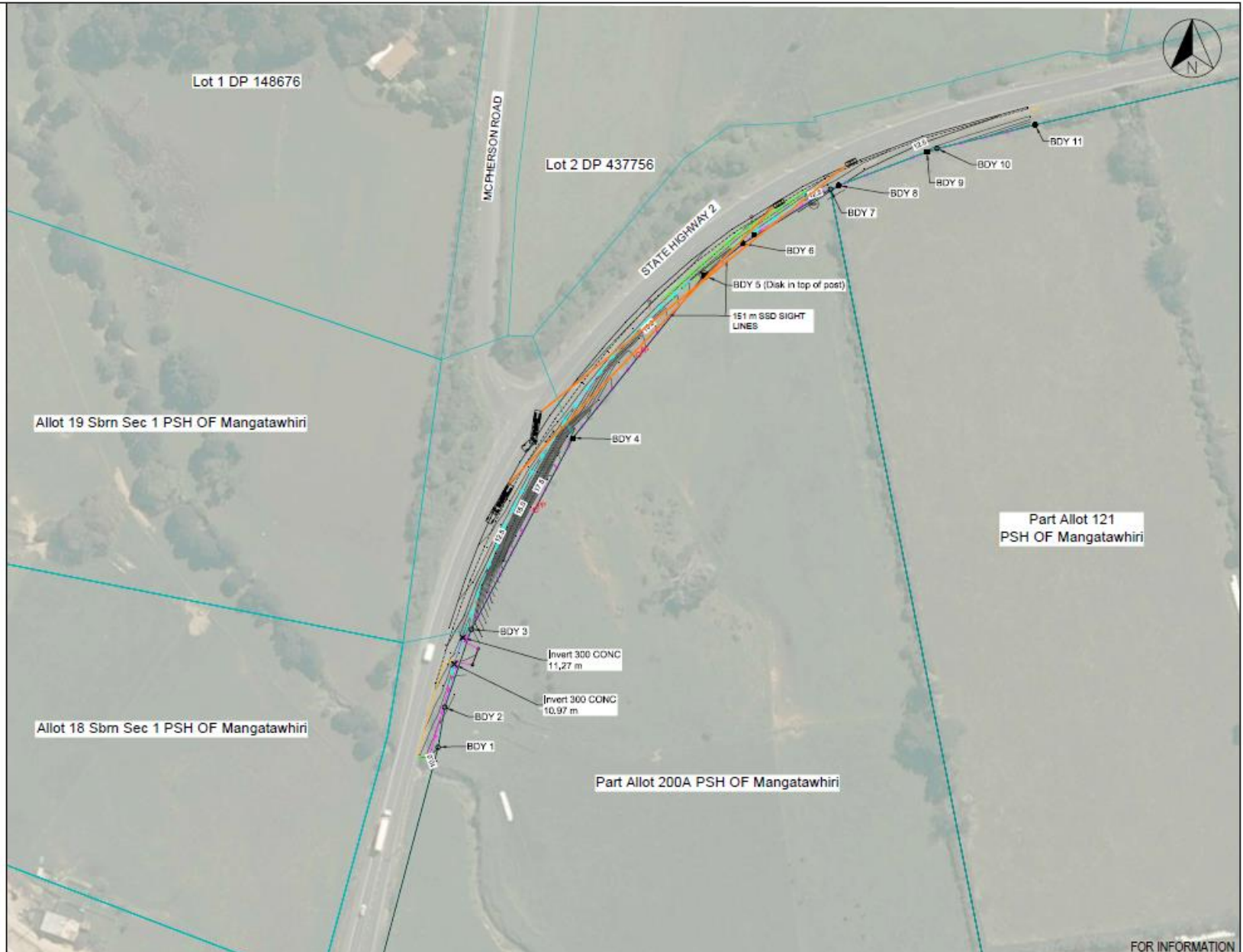
Consultant Planning Advisor

DDI: 07 958 7884

Email: emily.hunt@nzta.govt.nz

SURVEY DETAILS	
SURVEYOR	L. McDONALD
VERIFIED BY	R. WEAVER
SURVEY DATE	11/12/2018
VERIFIED DATE	20/12/2018
EQUIPMENT USED	GNSS VRS- TRIMBLE R10 GN: 5410456475
CLIENT	MCPHERSON ROAD QUARRY
SPECIFICATION	GNSS TORO
CADASTRAL BOUNDARY ACCURACY	SUBJECT TO CADASTRAL SURVEY
DATUM NOTE	
HORIZONTAL DATUM	MTEDEN 2000 - MTEDEN000
SCALE FACTOR @ CENTRAL MERIDIAN	0.9999
HORIZONTAL ORIGIN	IT N OF 14875 (DLS)
VERTICAL DATUM	NDVD2016
VERTICAL ORIGIN	IT N OF 14875 (DLS)
COMMENTS	
THIS WORK INCLUDES DATA WHICH IS LICENSED BY LAND INFORMATION NEW ZEALAND (LINZ) FOR RE-USE UNDER THE CREATIVE COMMONS ATTRIBUTION 4.0 INTERNATIONAL LICENCE.	

LEGEND	
	PROPERTY BOUNDARY
	TOP OF BANK
	BOTTOM OF BANK
	EDGE OF SEAL
	EXISTING FENCE
	DISH CHANNEL
	DRAIN
	WHITE LINE
	GATE
	GUARD RAIL
	CULVERT
	IGN
	OLD BOUNDARY OSG
	OLD POST
	OLD BOUNDARY PEG
	NEW BOUNDARY STAKE
	POWER POLE
	MANHOLE
	SUMP



0 5m 10m 15m 20m 25m 30m 35m 40m 45m 50m

NOTE

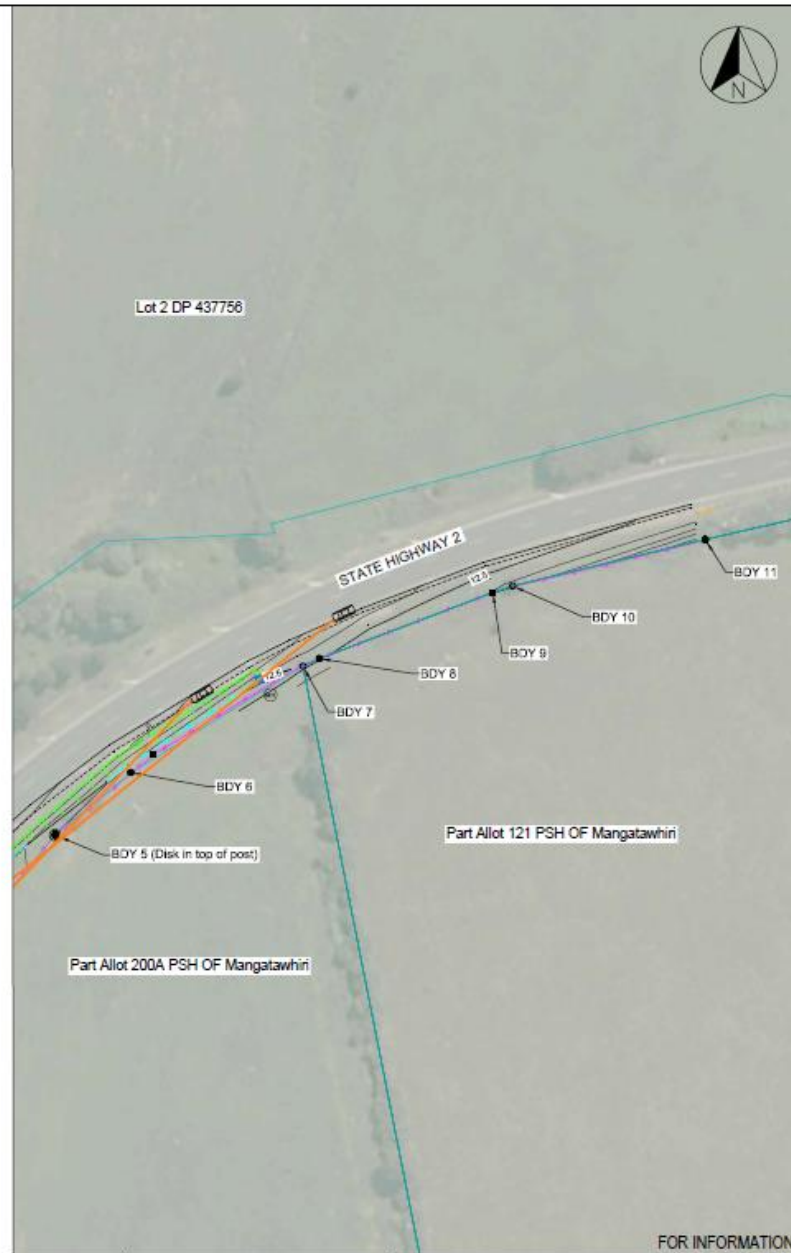
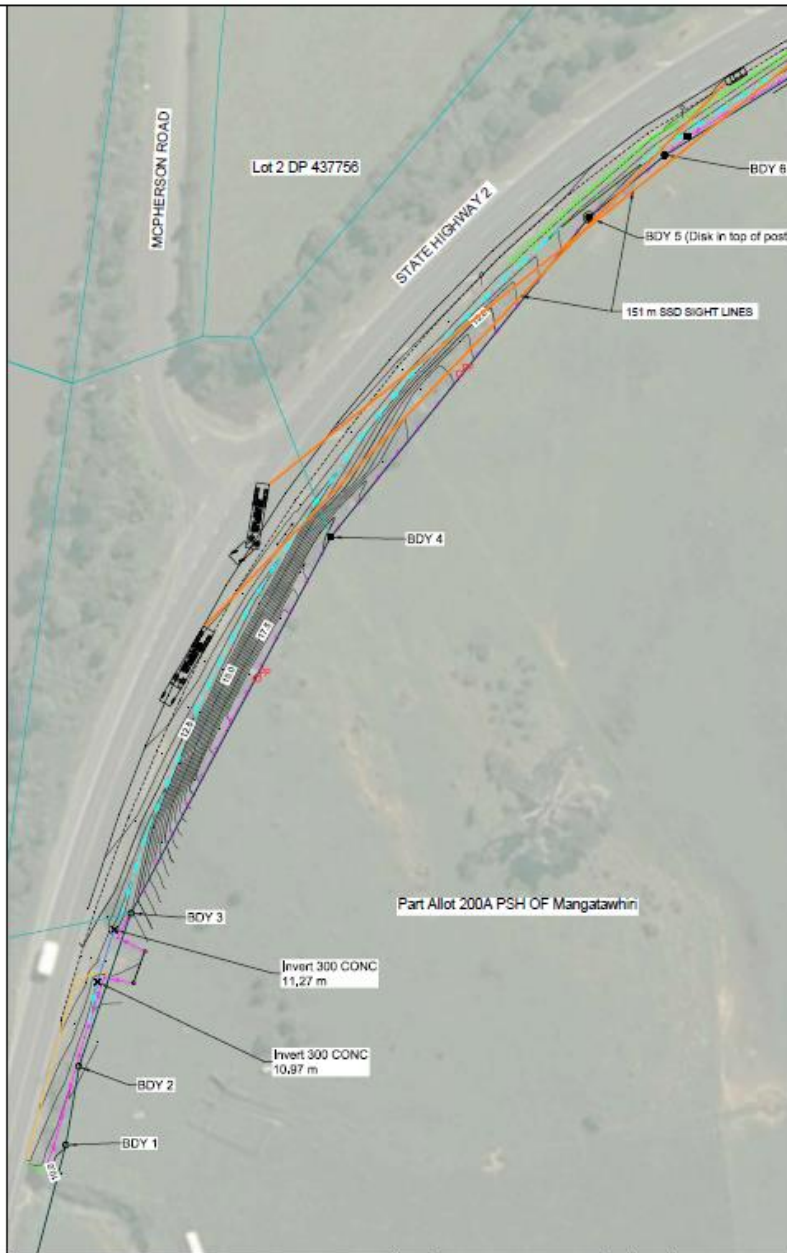
- AERIAL IMAGERY SOURCED FROM LAND INFORMATION NEW ZEALAND AND LICENSED FOR RE-USE UNDER THE CREATIVE COMMONS ATTRIBUTION 4.0 INTERNATIONAL.
- CONTOUR INTERVALS ARE 0.5m MINOR AND 2.5m MAJOR.

Issue	Description	Original	Revised Date
A	ISSUED FOR INFORMATION	R.M.	20/12/2018
B	REVISED TO INCLUDE SSD INFORMATION	R.M.	19/01/2019
C	SSD SAGIT LINES REMOVED FOR CLARITY	R.M.	19/01/2019

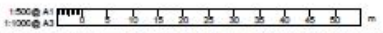
		Auckland Office +64 9 335 9000		PO Box 1040 Auckland 1141 New Zealand
		Project No. 3-39019.01	Issue No. V01	Revision C
Client MCPHERSON ROAD QUARRY STATE HIGHWAY 2, MANGATAWHIRI	TOPOGRAPHIC SURVEY AND BOUNDARY FLAGGING			
Date 11/12/2018	Scale 1:750 @ A1, 1:1500 @ A3	Project No. 3-39019.01	Issue No. V01	Revision C

SURVEY DETAILS	
SURVEYOR	J. McDONALD
VERIFIED BY	R. MEARS
SURVEY DATE	11/12/2018
VERIFIED DATE	20/12/2018
EQUIPMENT USED	GNSS VRS, TRIMBLE R10 DN: 5410456475
CLIENT	MCPHERSON ROAD QUARRY
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HORIZONTAL DATUM	WT EDEN 2000 - MTEEN2000
SCALE FACTOR @ CENTRAL MERIDIAN	0.9999
HORIZONTAL ORIGIN	IT V OF 14875 (E.L.S.)
VERTICAL DATUM	NZVD2016
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	DISK
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	SMITE
	GUARD RAIL
	CULVERT
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Revised	Description	Approved	Revision Date
A	ISSUED FOR INFORMATION	R.M	20/12/2018
B	REVISED TO INCLUDE S&S INFORMATION	R.M	16/1/2019
C	S&S SIGHT LINES REMOVED FOR CLARITY	R.M	16/1/2019



Project: MCPHERSON ROAD QUARRY
STATE HIGHWAY 2, MANGATAWHIRI

Drawn	Approved	Revision Date	Project No.	Sheet No.	Notes
J.M	R.M	20/12/2018	TOPOGRAPHIC SURVEY AND BOUNDARY FLAGGING	V02	C
Date:	Scale:	Project No.:	Sheet No.:	Notes:	
2/11	1:500 @ A1, 1:1000 @ A3	3-39019.01	V02	C	