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18 March 2024

Michele Schitko-Saboonchi / Vanessa Leddra Auckland Council By email to: <u>michele.schitko-saboonchi@aucklandcouncil.govt.nz</u> <u>vanessa.leddra@aucklandcouncil.govt.nz</u>

Dear Michele and Vanessa

Bombay Commercial Vehicle Safety Centre – Response to Section 92 RMA Request for Further Information

Thank you for your further request for information dated 29 February 2024, received 01 March 2024. Our response to the request is attached.

All of the information requested in the Council's letters of 30 November 2023 and 29 February 2024 has been provided. In this case, please can you complete your notification determination and statutory processing to recommend confirmation of the designation and grant of the consents sought.

The statutory process to date has been longer than anticipated. Waka Kotahi is now underway with procurement for the construction phase, Please can you provide a specific timeframe for next steps in the statutory process, with reference to the statutory timeframes as set out in the RMA.

Yours sincerely

Belinda Petersen Principal Planner – Poutiaki Taiao / Environmental Planning

Attachment: Memorandum from WSP dated 18 March 2024.



Memorandum

То	Michele Schitko-Saboonchi and Vanessa Leddra, Auckland Council
Сору	Belinda Petersen, Nitin Sahare, Burges Daruwala, Alisdair Simpson
From	Tina Kalmar
Office	Auckland
Date	18 March 2024
File/Ref	1-C1875.08
Document Code	5C4353-WRP-04-MM-PL-1002_Rev C (<u>WSP-WRP-RFI-015</u>)
Subject	Bombay CVSC Notice of Requirement and Resource Consent BUN60427410 - s92 Further Information Request 29 February 2024

This memorandum provides responses with further information as requested from processing planners, Michele Schitko-Saboonchi (Resource Consent, RC) and Vanessa Leddra (Notice of Requirement, NOR) for Auckland Council, in regard to the consent application dated 24 October 2023, as summarised in Table 1.

The request follows the first information response provided by Waka Kotahi on the 26 January 2024 to Auckland Council.

Each request and its number is detailed, followed by the response provided by WSP in Table 3.

Table 1 - Summary Information for Consent No BUN60424934

Information	Details
Application number(s)	BUN60424934
Applicant	New Zealand Transport Agency Waka Kotahi (requiring authority)
Address:	253 Mill Road, Bombay Auckland

1. List of Attachments

Table 2 lists the Appendices provided with this response. As a number of drawings have been updated post-lodgement, or new drawings added to provide further information, a Drawing Schedule with document codes, identifying those that are new or have been amended is provided in **Attachment H**.

Table 2 - Attachments

Attachment No.	Description	New or Updated Report/ Appendix
А	Attachment A – Copy of s92 response submitted to Auckland Council 26 January 2024	Reference copy, as Lodged
В	Attachment B – Further Information responses submitted to Auckland Council 18 March 2024 (Tabled within this Memorandum)	New
С	Attachment C – Terramesh Wall Drawing Sheet <u>C-3011</u>	Updated
D	Attachment D – Indicative Erosion and Sediment Control Plan (includes amended Drawings <u>C-300</u> and <u>C-3101</u>)	Updated
E	Attachment E – Geological Cross section $\underline{C-0041}$	Updated
F	Attachment F – Bombay Interchange Signalisation Plans	New
G	Attachment G - Site Distance Assessment	Updated
Н	Attachment H - Drawings Schedule	Updated

Attachment B. Response to Further information request received 29 February under s92 RMA

Table 3 – Unresolved requests and Further Information responses

ltem	Original Information request (30 November 2023)	Applicant's Response (26 January 2024)	Council further information request (29 February 2024)	Applicants R (18 March 202
Landsca	ape (NOR)	·	·	
RFI 5	Clarification: Please confirm the maximum height of the terramesh walls. The LVA and AEE note that the terramesh walls are to have a maximum height of 3.7m and 1.8m high. However, the detail drawings (page C-3011 (Rev 0A)) annotates the walls as having a maximum height of 4.2m and 2.5m high. An additional 500mm and 700mm on top of already high walls and fencing is a significant structure to mitigate the effects of the increase in height from 1.8m – 2.5m and 3.7m – 4.2m may impact on the assessment undertaken in the LVA or the planting required for mitigation.	Refer to separate Memorandum dated 26 January 2024 in Attachment A, specifically response on p.6.	The response notes that the height of the walls are to be a maximum of 3.7m and 1.8m high as shown on the detail drawings (C-3005 and C-3006 Rev A). However, Appendix 15 in the further information response (Appendix 15_5C4353-WSP-54-DR-C-3011 Retaining Wall Detail) still annotates the walls at heights of 4.2m and 2.5m high. Therefore, it is still unclear in the documentation what the final height of the walls will be.	For clarification visible max. He is 3.7m (due to concerned an height/elevation The retaining 4.2m max as as Attachment The dimension Appendix B – been updated consistent with plan is provide
Transpo	ort (NOR)			
RFI 15	Traffic Modelling Provide evidence that demonstrates that the base traffic model for the SH1 interchange, including the Great South Road / Mill Road roundabout is calibrated and represents actual operating conditions.	Refer to separate Memorandum dated 26 January 2024 in Attachment A ., specifically response on p.10.	No further information provided. Need to better understand model calibration. RFI Response 15 states that the applicant does not have access to the models. However, RFI response 16 indicates that the models have been updated.	WSP have che and confirm t been updated analysed as b conclusions th CVSC on the t
RFI 16	Traffic Modelling Update the modelling to include the correct number of inbound trucks (8) at the northbound	Refer to separate Memorandum dated 26	States modelling has been updated and confirms that the revised number of trucks can be accommodated.	Response to F made to the F AADT, not the

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on, the landscape response refers to the eight of the Terramesh (Type 1) wall which to the incline), as the key matter ny visual or landscape effects from ion.

height including base is confirmed as shown on <u>C-3011</u> submitted with 🗛 as Appendix 15.

ns shown in <u>C-3006</u> (Application – Part C-General Arrangement Plans) have now d to the actual design height to be th other drawings supplied. The updated ed in Attachment C.

ecked the response to RFI 15 and RFI 16 this did not mention the modelling had d but rather the data checked and eing sufficient to support the TIA and the herein that the potential effects of the traffic network are less than minor.

RFI 12 and RFI 16 had noted an update was HCV volumes in the reassessment of the model (i.e. phasing and timing). This was

ltem	Original Information request (30	Applicant's Response	Council further information request	Applicants R
	November 2023)	(26 January 2024)	(29 February 2024)	(18 March 202
	trucks from the CVSC site	Sanuary 2024 In Attachment A,	Modelling should be provided.	to ensure the
	Drevide or concernent of the creation	specifically response on p.n.		
	of the SUI interchange including the			RELIZIESPOIS
	Great South Doad / Mill Doad			
	roundabout with the rovised modelling			AS RELIZ MEN
	Touridabout with the revised modelling.			vobiclos in op
				arrivals at the
				assessment u
				confirms that
				right turn lane
				minimal impa
				interchange.
				The reasons fo
				following:
				1. In Section
				result sł
				movem
				reach ca
				meters
				Assumi
				turn lan
				length r
				HCVs) a
				Howeve
				lane wit
				290 me ⁻
				it affect
				the stop
				Additional 9 yeb

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e data was updated to reflect the increase nes since 2021. We also refer back to the se (and Table 1) for a description of this.

ntioned, up to 17 vehicles will be directed which means an average of 8.5 HC ich direction (northbound/southbound) e Interchange from SH1. A further desktop undertaken by WSP to address RFI 16 c an additional 9 traffic movements in the e of the northbound off-ramp will have a act on the operation of the SH1

or this assessment are described in

ion 6.1.5 of the TIA report, the modelling hows that with 6 additional vehicle hents in the northbound off-ramp, it will capacity and result in a queue length of 43 (Deg. 0.974).

ing 3 more HCVs are added in the right ne of the northbound off-ramp, the queue may extend to 88 meters (43m +15m x3 as illustrated in Figure 1.

er, this queue does not reach the merging th the separated left-turn bypass, which is eters away (as shown in Figure 2), nor does t the SHI lanes, which is 535 meters from p lane (as shown in Figure 3).

icles queue length of 88 meters:



		Figure 2 - Illustr the merging lin
		535m distance k



ation of 290m distance between the stop line and e of the left turn bypass onto Mill Road

between the stop line and the merging line of SH1:



ltem	Original Information request (30 November 2023)	Applicant's Response (26 January 2024)	Council further information request (29 February 2024)	Applicants R (18 March 20)
		(26 January 2024)	(29 February 2024)	Figure 4 - Illustre the intersection
				3. Althoug desktop finds ar (being a mainta describ Figure mover
				4. The tru manage respons CVSC b

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ation of separated left-turn lane before reaching if queues are present

igh WSP could not update the model, the op assessment as part of the s92 response in additional 9 right-turn movements assumption of worst-case scenario) could ain the same level of service (E) as oed in the TIA report section 6.1.5 and 6-4, observed in 6 more right-turn ments.

uck volumes directed to the CVSC can be yed by the operator remotely to ensure sive management of HCVs directed to the based on traffic volume conditions.

ltem	Original Information request (30 November 2023)	Applicant's Response (26 January 2024)	Council further information request (29 February 2024)	Applicants R (18 March 20
RFI 18	Traffic Modelling Provide an assessment of the safety and operational effects of the long delay times for the right turn movement from the northbound off-ramp with the addition of CVSC traffic, including any mitigation proposed to manage potential safety or operational effects.	Refer to separate Memorandum dated 26 January 2024 in Attachment A ., specifically response on p.12.	Response of NZTA has confirmed signalisation in 2024 is noted. Layout of intersection required including interim upgrades mentioned to confirm that the modelling represents the proposed design. Measures for mitigation re. monitoring of ramp and amending operation of the CVSC. A condition may be required in this regard.	Monitoring of needed, ame phasing) occu highway netw Upgrades at t road environr issues. Constr planned for N These improv operating env Plans of the p signalisation F.
RFI 19	Traffic Modelling Provide summary SIDRA Lane and Movement outputs for the signalised arrangements at the northbound and southbound off-ramps in scenarios with and without CVSC development traffic.	Refer to separate Memorandum dated 26 January 2024 in Attachment A ., specifically response on p.13.	Only results with the CVSC have been provided. No results with the CVSC. Due to the poor operation of the without scenario the addition of more heavy vehicles could have a significant impact.	As stated in t established th the CVSC as with or witho scenario is fle on the netwo additional HC managed and CVSC operati
22 [24 in SME's list]	Operational Plan Provide a copy of the recommended Operational Plan as referenced in Section 7.1 of the TIA	Refer to separate Memorandum dated 26 January 2024 in Attachment A ., specifically response on pp.15 - 16.	Operational Plan not provided. Would be helpful as this would help understand measures to manage the effects of the operation of the site.	Waka Kotahi operation of 0 outlines cons procedures for sites (i.e. roles operations, and The general p described in s enable an ass process.
23 [25 in SME's list]	Vehicle Access Provide an assessment of visibility for the:	Refer to separate Memorandum dated 26 January 2024 in Attachment A ., specifically response on p.16.	No assessment (desktop or on-site) provided of the realigned vehicle crossing north of the site.	A Road Safety was undertak Planning Cor Ltd, an indep

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of network performance, and where endments to operation (e.g. signal curs as part of typical operation of the state work. No RMA condition is needed for this.

the Bombay Interchange and interim ment are proposed to address existing ruction commencement of these works is May 2024 and completion by late 2024. vements will ensure a safe and efficient invironment for the proposed CVSC.

proposed Bombay Interchange installations are provided in **Attachment**

the s92 response, the assessment has the base case/status quo scenario without well as two scenarios with the CVSC (either but signalisation). We reiterate the CVSC exible to meet the operational conditions ork at any time such that effects of CVs on the network can be appropriately ad mitigated such that the effects from the ions will be less than minor.

i has a general operational plan for the CVSCs throughout the country. The plan sistent procedural operations and for each CVSC shall be provided across the s and responsibilities for safe workplace and parameters for screening vehicles).

parameters for the Bombay site have been section 2.3 of the AEE in sufficient detail to sessment of effects relevant to the RMA

y Audit (Reference: 19359, October 2022) ken of the detailed design by Traffic nsultants Ltd and Colin Brodie Consulting bendent review and approval by safety

ltem	Original Information request (30	Applicant's Response	Council further information request	Applicants R
	November 2023)	(26 January 2024)	(29 February 2024)	(18 March 202
	Vehicle crossing at the site entry Vehicle crossing at the site exit		sight distance from the exit from the site.	affect the safe
	entry Vehicle crossing at the site exit • Realigned vehicle crossing along the northern boundary of the CVSC site Note: The assessment should be provided for the driver's eye height for both cars and trucks.		sight distance from the exit from the site. Desktop assessment is based on Streetview which has a high view point of each image whereas SISD requires the driver eye height to be 1.1m. This will be a factor given the topography of Great South Road north of the site. Appears that the location of the entrance to the site shown on the aerial on page 5 of the PDF is located more southerly than the proposed entrance. Further assessment is required of the sight distances as outlined above.	affect the safe included a site The safety aud users and qua opportunities A road safety a examination of which affects pedestrians, n independent document roa to the design actions in acc With regards 26 Jan s92 res image may sh southerly that purposes. WS shown in the <i>(Appendix 8, 2)</i> Drawing <u>C-20</u> entry access v Road frontage following a ve response to ta The exit egres width. The ou road frontage The safety des what is neede not provided a
				undertaken. F

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identify any safety concerns that may ety performance of the site. The audit also e visit.

dit team considers the safety of all road alitatively reports on road safety issues or 5 for safety improvement.

audit therefore constitutes a formal of a road project, or any type of project road users (including cyclists, mobility impaired etc.), carried out by an competent team who identify and ad safety concerns that are then referred team. WSP design team confirmed cordance with the RSA in November 2023.

to the SISD provided in *Appendix* 7 to the sponse, it is acknowledged the inset aerial how a proposed entry slightly more n intended, but illustrated for explanatory SP confirms the proposed entrance is as s92 general arrangement plan updates Jan 2024 s92 response), specifically <u>201</u> (revision 0B). This saw a change in the vehicle crossing width at the Great South e, reducing from 16.2m down to 13.5m whicle tracking review as part of the s92 ake into account any possible reductions. ss similarly reduced from 16.7m to 12.0m in atcome is a longer landscaped area at the e.

sign issues are matters of detail beyond ed for the RMA process, and as such were with the February s92 response.

sessment of SISD is considered to be oth a desktop and site visit was For clarity however, the SISD assessment lated on pages 5 and 11 to incorporate the layout and indication of sight distance

Section 9	Section 92 Request for Information: BUN60424934 – tracking 29 February 2024				
ltem	Original Information request (30 November 2023)	Applicant's Response (26 January 2024)	Council further information request (29 February 2024)	Applicants R (18 March 20)	
				from the prop 260m). The up	
				The RSA cove consider as th	
Earthwo	rks (NOR/RC) Not NOR				
42 [44 in SME's list]	The proposed Erosion and Sediment Control Plan (Report) by WSP, dated 29 June 2023 does not have a clear GD05 based earthworks ESC methodology. Please describe the proposed earthworks staging/phasing methodology including the type of controls and why relatively low efficiency Silt Fences (~50% efficient) are proposed. Given the sensitive receiving environment, please justify why more efficient Decanting Earth Bunds (~70-80% with flocculation) and or Sediment Retention Ponds (~80-90% with flocculation) are not proposed. I note the 2 x Lamellas shown in the ESCP Drawings, however the expected use and likely efficiency is not explained.	Refer to separate Memorandum dated 26 January 2024 in Attachment A., specifically response on p.26.	Unresolved as per specialist's feedback: I consider that without a well prepared indicative ESCP that I am not in a position or assess the application for potential advise effects and or be able to recommend appropriate consent conditions. Please provide the requested information through provision of an ESCP for the site.	The indicative is provided as A summary of and Sedimen 1. ESCP drawi treatment de and decantin 2. ESCP report devices used. 3. The staging this stage and engaged. The minimum co 4. The ESCP ut layout to achi sizing of the of in the develop The indicative <u>3100 and C-31</u>	
43 [45 in SME's list]	If the proposed ESCP is to be retained in any form, please ensure that any non-GD05 practices are fully described in a technical report that demonstrates the likely efficiency of the device/s. I note the proposed two ESCP options do not clearly depict how it all works, ie what is the purpose of the Filter Socks? <u>Note:</u> Whilst the option to condition a Finalised ESCP is available, the	Refer to separate Memorandum dated 26 January 2024 in Attachment A ., specifically response on p.26.	Outstanding as per the above.	Please refer to	

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posed site exist to the north (which is updated SISD is provided in **Attachment G**.

ers matters for Waka Kotahi and AT to he Road Controlling Authorities.

e ESCP (and plans) has been updated and s **Attachment D**.

of the proposed changes to the Erosion nt Control Plan (ESCP):

ing has been updated to include GD05 evice including sediment retention ponds ng earth bund.

rt updated to provide more details on the

g of earthworks cannot be confirmed at id will be developed once the contractor is e ESCP update will aim to serve as a ontrol plan regardless of the staging.

updates only show indicative plan and nieve GD05 principles, detailed design and devices will be provided by the contractors opment of the final ESCP.

e ESCP plans are provided as Drawing <u>C-</u> 3101 within **Attachment D**.

to response to RFI 44 above.

ltem	Original Information request (30 November 2023)	Applicant's Response (26 January 2024)	Council further information request (29 February 2024)	Applicants Re (18 March 202
	indicative plan must be capable of being a final ESCP and any subsequent Finalised ESCP will need to meet the same standard or higher.			
Floodin	g (NOR/ RC)			
49 [5] in SME's list]	AEE, pg. 53 The AEE states that the depth of runoff from the site post- development is changed by 25.8mm for 100yr EDC case and 27.6mm for 100y MPD case. Please provide a proposed condition to ensure that the change in runoff will be appropriately managed to ensure the increase in depth of runoff is no more than as stated.	Refer to separate Memorandum dated 26 January 2024 in Attachment A., specifically response on p.30.	 Unresolved as per feedback from HW's: For the catchment area upstream of the southern motorway culvert. The applicant's assessment indicates a flood level increase of less than 30mm because of the relatively steep contours an increase of less than 30mm does not increase flood extent in this area. An increase of less than 30mm in depth will be constrained by the topography of the area. Based on the information provided attenuation is not required. However, Tables 3 and 4 utilise a flood plain area of 28652m² for the 10 and 100yr events with and without climate change. Please review this number as we would expect different floodplain extent areas (+ floodplains) depending on event (10yr or 100yr) and whether climate change rainfall was utilised. Depending on the response to the question above further consideration may be required. 	We understand footprint used calculations per Assessment. If 100-year level basis for the cal increases over the increment We emphasise catchment to development available from area informati inundation. Ge plains and per year data avai The flood plain calculate incre- volumes is bas flood plain wit This is a closed which closely It is significant area) in the vic Flood Prone A representing 1 therefore show

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nd the issue with the same flood plain d as the basis for 100- and 10-year presented in tables 3 and 4 of the Flood If the flood level of 28,652m² is a plausible I (and it is) then using the same as the calculations for 10-year flood level erstates the floodplain area and diminishes ntal depth calculated.

se that without re-modelling the o test the effect of the proposed t upon flood plains, the only information in Geomaps is flood plain and flood prone tion which pertains to 100-year Geomaps does not give 10-year ARI flood erhaps it was too coarse to use the 100ilable.

in area of 28,652m² used in the report to reases in flood levels due to larger runoff ased on a measurement of the 100-year ithin the 155.5mRL contour in Geomaps. ed contour representing a ponding area raligns with the 100-year Flood Plain. It that the majority of the buildings (by icinity of the flood plain lie outside the Area and Flood Plain. A lesser flood plain 10-year flooding (if one existed) would ow more buildings outside the flood plain.

e points made above, we suggest that the be on 100-year effects as discussed in the

ltem	Original Information request (30 November 2023)	Applicant's Response (26 January 2024)	Council further information request (29 February 2024)	Applicants R (18 March 20
				submission. V simply insuffi any meaning Note that we flood plain ra former being
50 [52 in SME's list]	AEE, pg. 53 Please provide further assessment of the flood hazards during construction. And if any effects are identified how will the effects be managed and if a condition is required.	Refer to separate Memorandum dated 26 January 2024 in Attachment A ., specifically response on p.30.	Unresolved – indicative ESCP required at RC stage to enable assessment (see above).	Please refer t
Ground	water Diversion (RC)			
55 [57 in SME's list] 56 [58 in SME's list] 57 [59 in SME's list]	 Groundwater Levels: Please provide all the groundwater level data collected fortnightly and after major storm events referenced above. Wetlands: Could the applicant please provide a more detailed explanation to support the statement "diversion of any groundwater shall not affect the base flow of any rivers or springs and the levels and flows into the wetland." Detailed Cross-section: Could the applicant please provide a critical geological cross-section (from south to north) showing the deepest excavation level, the wetland level, stream beds and the groundwater level throughout the section selected. 	Refer to separate Memorandum dated 26 January 2024 in Attachment A., specifically responses on p.35. A geological cross-section was provided on sheets <u>C-0040</u> and <u>C-0041</u> in Appendix 16 of the response.	Item 57 (59 in SME's list) unresolved as per groundwater specialist's comments: Invertexiewed the updated reports and plans etc. However, the lem 59 needs further deviced 15/01/2024) noted that the maximum excavation depth is 4.2 m as noted in the snip below.	To clarify, the view C-0041 v to existing gra- in figure belo been updated requested. Th

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Without 10-year flood plain levels there is ficient flood level data available to enable gful discussion of 10-year effects.

e have used the outline of the 100-year other than the Flood Prone area, the g a smaller area.

to response to RFI 44 above.

e excavation depths shown in the section were from subgrade level of retaining wall round level (as indicated by purple marker ow) The section views in C-0041) has now ed to show cut/fill to subgrade level, as his plan is provided in **Attachment E**



wsp

Concluding comments

Thank you for the request for further information. All of the information requested in the Council's letter has been provided (or explanation given) and no further requests for information have been received.

This Memorandum has responded to the request in full, providing justifications and reasoning where necessary. As such, completion of the notification determination and statutory processing and grant of the consents sought is requested from Auckland Council. Our assessment finds the NOR can be considered on a non-notified or limited notification basis, and RC application can be considered on a non-notified basis.

Yours sincerely,

Tina Kalmar Intermediate Planner, WSP