

**BEFORE THE INDEPENDENT COMMISSIONERS APPOINTED BY
CANTERBURY REGIONAL COUNCIL AND CHRISTCHURCH CITY COUNCIL**

IN THE MATTER OF the Resource Management Act 1991

AND

IN THE MATTER OF Applications by **SOL Quarries Limited** for all resource consents necessary to establish, operate, maintain and close an aggregate quarry at 93 Conservators Road and 133 Conservators Road, Yaldhurst, as an extension to an existing quarry at 81 Conservators Road, Yaldhurst.

CRC193563
CRC193564
CRC193773
RMA/2019/373

**MEMORANDUM:
CONDITIONS OF CONSENT
RESPONSE TO COMMENTS FROM CHRISTCHURCH CITY COUNCIL**

**On behalf of:
SOL Quarries Limited**

15 March 2021



INTRODUCTION

1. In accordance with the Direction of the Independent Hearing Commissioners (the Commissioners) at the adjournment of the Hearing related to resource consent applications by SOL Quarries Ltd (SOL) – CRC193563; CRC193564; CRC193773; and RMA/2019/373 – I submitted a Memorandum to the Commissioners, dated 2 March 2021.
2. The Memorandum provided a response to annotated comments on the proposed Conditions of Consents provided by Canterbury Regional Council (ECan) and an assessment of the suggestions and comments received from Ms Bealey, on behalf of Christchurch City Council (CCC), on 23 February 2021.
3. As at the date of submitting the Memorandum on 2 March 2021 SOL had not received annotated comments from Ms Bealey to the final draft Conditions for Consent RMA/2019/373.
4. Accordingly, on behalf of SOL, I reserved the right to provide an addendum to the Memorandum of 2 March 2021 in order to address any matters raised by Ms Bealey in the annotated comments on behalf of CCC.
5. This Memorandum, dated 15 March 2021, is restricted to a response, on behalf of SOL, with respect to the annotated comments submitted on behalf of CCC.

CHRISTCHURCH CITY COUNCIL

RMA/2019/373 – Land Use Consent – Quarry and Cleanfill Activities

6. *Condition 2.* For consistency with the ECan consents, SOL supports a 7-years lapse date from the date of grant of consent. Ms Bealey does not object to this lapse date.
7. *Condition 8.* SOL has mirrored the certification process agreed with ECan; however, from Ms Bealey's comments are:
 - i. That it is not necessary to set a timeframe for certification.
 - ii. That the condition, as drafted, only allows CCC one (1) opportunity for input to amendments of the Landscape Plan / Planting Plan.

8. As such, Ms Bealey is seeking a process which would, in effect, be a circular loop. The process proposed by Ms Bealey would potentially involve SOL submitting and re-submitting a Landscape Plan / Planting Plan multiple times with no certainty of approval of the Plan.
9. In an extreme situation where SOL and a CCC staff member were unable to agree with respect to the Plan, SOL would be unable to exercise the Consent granted by the Commissioners. This would mean the approval for the commencement of works and the exercise of the Consent is, in effect, delegated to a third party, a CCC staff member (Council Officer) – a condition which would clearly be *ultra vires*.
10. SOL agrees that the purpose of the Landscape Plan / Planting Plan “... *should be made clear* ...”. Accordingly, SOL volunteers to amend Condition 8 (amended Conditions attached), including the following wording as Condition 8(c) ...

(c) The purpose of the Planting Plan is to ensure that planting is provided along each of the above boundaries to provide sufficient screening of the site, ensure the planting can be maintained and thrive, and to ensure the landscaping is planted in accordance with the landscape assessment submitted with the application.

11. However, SOL would contend that the Landscape Plan / Planting Plan is a tool designed to guide adherence with the robust conditions of consent, specifically Conditions 9 through 13 [RMA/2019/373], rather than the ultimate determinant of compliance.
12. The performance standard required to regulate the quarry operations and mitigate effects, in this case the landscape planting (shelter belts) are set in the core Conditions. SOL has proposed Conditions which:
 - i. are lawful in all regards; and
 - ii. provide certainty; and
 - iii. are relevant to the resource management issues under consideration; and
 - iv. are fair, reasonable, and practical; and
 - v. are able to be monitored.
13. Put simply, the Conditions proposed by SOL are lawful, robust, targeted, detailed, prescriptive and enforceable.

14. Similarly, Condition 15 and Condition 21 require SOL to prepare and submit a Quarry Management Plan (QMP) and a Remediation Action Plan (RAP) to CCC for certification prior to any works occurring on-site.
15. SOL has mirrored the certification process agreed with ECan; however, from Ms Bealey's annotated comments, CCC is seeking an unlimited timeframe for certification. As with the Planting Plan, the process proposed by CCC would require SOL to submit and re-submit the QMP or the RAP to CCC multiple time in order to address any/all matters to the satisfaction of a CCC staff member. The process proposed by CCC provides no certainty with respect to the exercise of the Consent granted by the Commissioners.
16. SOL consider it appropriate that Council has an opportunity to identify and advise potential amendments to the QMP or seek further information relating to the RAP; however, the lack of a time limit and finality to the certification process may result in SOL continuous making amendments and submitting the QMP or the RAP to Council for certification. The process would, as stated earlier, mean that the approval for the commencement of works and the exercise of the Consent is delegated to a third party, a Council Officer. A condition to this effect would be *ultra vires*.
17. All the parties agree that the Management Plans (QMP, RAP, Planting Plan) should be prepared by a suitably qualified and experienced professional (SQEP).
18. SOL and ECan are also agreed that the Conditions should not rely on a Management Plans as the ultimate determinant of compliance. Management Plans are a tool, the detailed contents of which are specified by the Conditions.
19. Ms Bealey has accepted the amendments SOL has proposed to the Conditions relating to the Quarry Rehabilitation Plan (QRP); however, Ms Bealey remains of the opinion that the Rehabilitation Plan should include a "... *discussion of the general availability of cleanfill and the impact of availability (or lack thereof) ...*".
20. Ms Bealey has recognised that SOL has incorporated further details relating to the contents and the requirements of the QRP. The additional detail is based in the provisions of the *Quarry Rehabilitation Guidance*; CCC; 2018; and the *Winstone Aggregates Quarry Rehabilitation Management Plan*; August 2020.

21. In particular, the amended proposed Conditions require the QRP to include details of the quarrying and rehabilitation staging, the timeframe for rehabilitation, and the finished landform. SOL considers that proposed Condition 34(e) addresses Ms Bealey’s concern and requires the Rehabilitation Plan to contain “... *a detailed description of rehabilitation procedures, the key principles and the proposed final landform*”.
22. The amendments to Condition 34 and Condition 35 will ensure the QRP is a comprehensive guide to the rehabilitation of the proposed SOL quarry extension.
23. Furthermore, SOL has appointed a Business Development Manager; whose role includes maintaining existing Client relationships and sourcing new Clients. In doing so the Business Development Manager is tasked with sourcing cleanfill, even at a cost to SOL, to ensure compliance with the Conditions of Consent (infilling and rehabilitation).
24. Ms Bealey has raised a concern (annotated comment – Condition 35) relating to the “... *timeframe for the completion of cleanfilling ...*”. However, Ms Bealey proceeds to suggest that limiting “... *the total area of open surface ... may be one way of controlling this issue.*”
25. I would refer the Commissioners to Condition 68 [RMA/2019/373], which limits the “unconsolidated area”, as follows:

The maximum unconsolidated area shall be limited at any one time to:

- a. *Nine hectares for the total quarrying activities area, defined as including the internal unsealed roading network, the Crushing Area, the excavated Quarry Pit, the area stripped in preparation for quarrying; the active Cleanfill Area, and the area currently undergoing rehabilitation.*
 - b. *Two hectares at any one time for the active quarrying operations area, defined as the Crushing Area, the excavated Quarry Pit and the active Cleanfill Area.*
26. Accordingly, rehabilitation **must** occur as the quarry excavation proceeds, with no more than 9-hectares of the Quarry comprising unconsolidated area. Significantly this 9-hectare area includes the area stripped in preparation for quarrying, the quarry pit, the active cleanfill area and the Area undergoing rehabilitation.

27. In order to comply with Condition 68 [RMA/2019/373], SOL will only be able to have approximately 1 – 2 hectares (out of the 9-hectares of unconsolidated area) actually “undergoing rehabilitation”. The practicality of the Condition will necessitate on-going rehabilitation as soon as the cleanfill of an area has bene completed.
28. As such, SOL has considered the comments of Ms Bealey, on behalf of CCC and dated 12 March 2021, and SOL considers the proposed Conditions incorporate a number of amendments which add robustness and certainty to the QRP.
29. However, SOL does not consider that cleanfill availability is a matter to be included as a Condition of Consent. It is simply not possible to prescribe in a Condition of Consent the availability of cleanfill material over the duration of the Consent term, particularly as SOL has agreed to provide a specific review Condition in CRC193563 (Condition 61(c)) relating to any amendments to the national cleanfill acceptance criteria.



Simon JM Hedley

For and on behalf of:
SOL Quarries Ltd

Dated: 15 March 2021

CCC RMA/2019/373 Proposed Conditions

	Condition	CCC Comments
	General	
1	Except where varied by the conditions of this consent, the operation of the quarry and site rehabilitation shall proceed in accordance with the information and plans submitted with the application, including the further information and submitted plans.	
2	The lapsing date for the purpose of Section 125 shall be 7 years from the date of granting of the consent.	
3	The duration of this consent shall be limited to a period of 20 years from the date of grant of consent, including the 7-year lapse period. The site is to be fully rehabilitated in accordance with the Quarry Rehabilitation Plan (Condition 34) of this resource consent within the 20-year period.	
	Enabling Works	
4	The Christchurch City Council's Compliance and Investigations Team shall be notified not less than 48 hours prior to the commencement of site enabling works, along with the contact details (including after-hours contact details) of the person that will be responsible for implementing the Quarry Management Plan (QMP).	
5	<ul style="list-style-type: none"> a. Prior to the commencement of the quarry activities, including Enabling Works, authorised by the conditions of this resource consent commencing, all personnel working on the site must be made aware of and have access to: <ul style="list-style-type: none"> i. The contents of this and all other resource consent documents pertaining to the subject site; and ii. The Quarry Management Plan prepared in accordance with Condition (15) of this resource consent. b. The Quarry Management Plan must include the following Plans: <ul style="list-style-type: none"> i. The Cleanfill Management Plan, prepared in accordance with Condition (24) of this resource consent; and 	

	<ul style="list-style-type: none"> ii. The Quarry Rehabilitation Plan, prepared in accordance with Condition (34) of this resource consent; and iii. The Environmental Site Management Plan, prepared in accordance with Condition (23) of this resource consent; and iv. The Quarry Operational Management Plan, prepared in accordance with Condition (22) of this resource consent; and v. A Planting Plan, prepared in accordance with Condition (8); and vi. The Dust Management Plan prepared in accordance with Condition (71) of this resource consent; and vii. A copy of resource consent RMA/2018/373; CRC193773; CRC193563; and CRC193564 and all associated documents. <p>c. The activity must occur in accordance with CRC193563 and the Dust Management Plan (DMP).</p>	
	<p>Realignment of the Stockwater Race</p>	
6	<p>Prior to excavating aggregate, the Consent Holder shall re-align the stockwater race in accordance with:</p> <ul style="list-style-type: none"> a. Selwyn District Council engineering requirements, specifically Standard No WR 8.0; March 2015 (<i>Water Race Lining Requirements: New and Relocated Channels</i>); and b. The Stockwater Realignment Methodology, detailed in the Aquatic Ecology Limited Report No 172, appended to this resource consent. c. The Selwyn District Council will be notified of the completion of the realignment and provided with the opportunity to carry out an inspection to confirm compliance. d. The new channel is to be of equivalent flow capacity and water depth as the existing channel. e. The new channel is to be constructed offline, with commissioning occurring only after the banks have been stabilised. f. Vehicles and machinery shall not enter the existing channel during the construction of the new channel. 	

	<p>Advice Note: <i>Realignment of the stockwater race shall occur during the Enabling Works and shall be completed prior to the planting of shelter belt in accordance with Conditions 4 - 9.</i></p>	
7	<p>Prior to construction commencing, an Environmental Management Plan shall be provided to rcmon@ccc.govt.nz which includes, but is not limited to:</p> <ul style="list-style-type: none"> a. Dampening of unconsolidated surfaces hourly when wind speeds are in excess of 5 m/s; b. Installation of a filter barrier at the downstream end of the new channel prior to commissioning; c. Translocation of the fish population in the existing channel by a suitably qualified and experienced freshwater ecologist shall occur upon commissioning of the new alignment; d. Cobbles from the existing channel shall also be relocated along the length of the new alignment to assist in the development of the new ecosystem; and e. The connections between the new alignment and the existing channel shall not inhibit fish passage. 	
8	<p>Landscape Planting / Planting Plan</p> <ul style="list-style-type: none"> a. Prior to excavating aggregate, the Consent Holder shall prepare and implement a Planting Plan Illustrating shelter-belt planting along the following boundaries, in accordance with the graphic illustration and cross sections submitted with the application and dated February 2020: <ul style="list-style-type: none"> i. The quarry and the McLeans Island Grassland Park; and ii. The quarry and the property at 133 Conservators Road (Stocks property); and iii. The quarry and the property at 93 Conservators Road (Higgs property); and iv. The quarry light vehicle accessway and 21 Conservators Road (the Harewood Gravels Limited property). 	

	<p>b. The Planting Plan shall be produced by a suitably qualified or experienced person.</p> <p>c. <i>The purpose of the Planting Plan is to ensure that planting is provided along each of the above boundaries to provide sufficient screening of the site, ensure the planting can be maintained and thrive, and to ensure the landscaping is planted in accordance with the landscape assessment submitted with the application.</i></p> <p>d. This Planting Plan shall be submitted to the Resource Consent Unit Manager, Christchurch City Council for certification. If the consent authority has not sent a response confirming certification or seeking amendments to the Planting Plan within 60 working days of the date of submission, or the period determined under (b), the Planting Plan will be deemed to be certified.</p> <p>e. If the response from the Christchurch City Council is that Council is not able to certify the Planting Plan, Council must specify recommended amendments and/or additions.</p> <p>f. The Consent Holder must consider any reasons and recommendations provided by Council, amend the Planting Plan accordingly and resubmit an amended Planting Plan.</p>	
9	<p>a. Tree planting within shelter belts which are required for visual mitigation should be undertaken in the first planting season (1 April – 31 August) following the grant of Consent.</p> <p>b. Tree species used for the shelter belts must be selected from the list contained in the District Plan Appendix 6.11.6 (Chapter 6 – General Rules and Procedures) specific to '<i>... trees suitable for visual mitigation of quarrying activities and planted at maximum 1.5m spacings</i>'.</p>	
10	Shelter belt planting along the boundary shared with the McLeans Grassland Park shall be selected from the same list; however, the tree species shall be restricted to native tree species only.	
11	These shelter belt trees should be planted and managed in such a way that they reach a minimum 3-metres in height within 3 years. The shelter belts should be managed so that they attain a height of 8-metres and should be maintained at this height for the duration of the extraction and rehabilitation activities.	
12	All shelter belts should be planted within a landscape strip which is a minimum of 1.5-metres in width, to allow room for tree growth and tree maintenance.	

13	Any trees that are dead damaged or diseased should be replaced with trees of an equivalent variety and size within the next available tree planting season (1 April to 31 August).	
14	<p>Bunds</p> <p>Prior to excavation and processing of aggregate commencing on site, and following the planting required under Condition (7), the following further enabling work is to occur:</p> <ul style="list-style-type: none"> a. Topsoil and overburden must be stored in a bund at least three (3) metres in height along the north-eastern boundary as shown on Plan RMA/2019/373A. The bunding shall be grassed to reduce erosions losses. <ul style="list-style-type: none"> i. Once established, the grass cover should be maintained so that the grass is mown or grazed to achieve a tidy appearance. ii. All topsoil and overburden, which is not used for bunding purposes, shall be stockpiled for use in land rehabilitation on the site. iii. The stored excess topsoil and overburden must not exceed the height of the bunds (i.e. the stored topsoil and overburden must not exceed three (3) metres above ground level). b. A one (1) metre high bund shall be constructed between the light vehicle accessway and the Quarry Pit as detailed in Plan RMA/2019/373A. The one (1) metre bund is primarily for health and safety reasons. c. The bunds shall have a slope of 1:3 (one vertical to three horizontal), on both sides. d. The bunds are to be grassed within the first grass growing season after construction (late summer March/ April or spring September/ October) to achieve 100% grass cover within 60 days after planting, using low-seed generating grass species which do not attract birds. <p>The location of the bunds shall be in accordance with the revised landscape plans and cross-sections, lodged with the Council, 12 February 2020 (Plan RMA/2019/373B).</p>	
	Management Plans	

<p>15</p>	<p>a. At least 60 working days prior to the commencement of quarry activities authorised in Condition (1), the Consent Holder shall prepare and submit a Quarry Management Plan (QMP) for certification to the Christchurch City Council, via rcmon@ccc.govt.nz, Attention: Team Leader, Compliance and Investigations for certification.</p> <p>b. The QMP shall:</p> <ul style="list-style-type: none"> i. Be retained on site at all times; ii. Include a description of the content and purpose of the QMP; iii. Provide details of the operation of the site, including details of the staging of works, the “crushing” area; the proposed excavation depth; the cleanfilling activities and the site rehabilitation works; iv. Provide details of the on-site staff training procedures, including the procedures for training staff delegated to manage the cleanfill operations; v. Provide evidence that the Consent Holder has incorporated any feedback received from Transpower New Zealand Limited and the Christchurch International Airport Limited; <p>c. If the Consent Authority has not sent a response to the Consent Holder confirming certification or seeking amendments to the QMP from the within 60 working days of the date of submission under Condition (16), the QMP will be deemed to be certified.</p> <p>d. In considering the QMP for the purpose of certification in Condition 15(a) above, Christchurch City Council may, due to the scale or complexity of the QMP, and with the agreement of the Consent Holder, extend the time period for certification provided the extended time period does not exceed a further 60 working days.</p> <p>e. If the response from the Christchurch City Council is that Council is not able to certify the QMP, Council must specify recommended amendments and/or additions to the QMP.</p> <p>f. The Consent Holder must consider any reasons and recommendations provided by Council and resubmit an amended QMP to the Council.</p> <p>Advice note. <i>The certification process is confined to confirming that the Quarry Management Plan adequately gives effect to the relevant Condition(s).</i></p>	<p>Comment on earlier draft:</p> <p><i>Looks like the certification clause has been changed again – think we might have to agree to disagree here and we can put it to the commissioner.</i></p> <p><u>Response:</u> The certification process has been agreed with Canterbury Regional Council, and is <i>vires</i>. It is noted that the Management Plans are not the final determinant of compliance; rather the robust and targeted conditions form the basis for mitigating environmental effects and monitoring compliance.</p>
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16	<p>The QMP must include:</p> <ul style="list-style-type: none"> a. The name, experience and qualifications of the person(s) nominated by the Consent Holder to supervise the implementation of, and adherence to, the QMP; b. Details of the contractor's liability insurance held to cover any costs, direct or indirect, associated with any damage to the transmission lines, directly or indirectly caused by works undertaken while undertaking the activities authorised in this resource consent; c. Procedures, methods and measures to demonstrate that all quarrying, cleanfilling and site rehabilitation activities undertaken on the site will meet the safe distances within the New Zealand Electrical Code of Practice for Electrical Safe Distances 2001 (NZECP 34:2001) or any subsequent revisions thereof, including those relating to: <ul style="list-style-type: none"> i. Excavation and Construction near Towers (Section 2); ii. Ground to conductor clearances (Section 4); iii. Mobile Plant to conductor clearances (Section 5); and iv. People to conductor clearances (Section 9). d. Details of any areas 'out of bounds' with which additional management measures are required, such as fencing off, entry and exit hurdles, maximum height limits, or where a safety observer may be required (a safety observer will be at the Consent Holder's cost); e. Demonstrate how the effects of dust (including any other material potentially resulting from construction activities able to cause material damage beyond normal wear and tear) on the transmission lines will be managed; f. Demonstrate how the existing transmission lines and support structures will remain accessible during and after quarrying activities; g. Details of proposed contractor training for those working near the transmission lines; h. Procedures, practices and measures designed to ensure that all quarrying, cleanfilling and site rehabilitation activities undertaken on site avoid any increased potential for the risks associated with bird strike, the potential distraction of aircraft and pilots from fixed lighting, 	
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	<p>and the potential for quarry related dust to affect Christchurch International Airport Limited (CIAL) infrastructure or operations;</p> <ul style="list-style-type: none"> i. Demonstrate how bird strike management will be implemented to protect CIAL operations; j. Details of the design and operation of any fixed lighting that may be installed at the Quarry, and the implementation of a lighting plan for submission to CIAL; k. Identify any other potential effects on CIAL and the management practices in place to minimise these effects. 	
17	<p>The QMP and associated management plans shall be reviewed and updated as necessary and at least every two years. Any amendments shall be:</p> <ul style="list-style-type: none"> a. For the purpose of improving the efficacy of the Management Plans; b. Consistent with the conditions of this resource consent; and c. Submitted in writing to the Christchurch City Council, via rcmon@ccc.govt.nz, Attention: Team Leader, Compliance and Investigations, for certification in accordance with Condition 16 of this consent prior to any amendment being implemented. 	
18	<p>Remediation Action Plan</p> <p>Prior to the commencement of quarrying activities on site in accordance with Condition (1), the Consent Holder must engage a Suitable Qualified and Experienced Practitioner (SQREP) to undertake a Detailed Site Investigation (DSI) and prepare a Remediation Action Plan (RAP) and supervise remediation of the site.</p> <p>The DSI and the RAP must be provided to the Christchurch City Council, via rcmon@ccc.govt.nz, Attention: Team Leader, Compliance and Investigations, at least 60 working days prior to the commencement of remediation works on-site.</p> <p>The RAP shall:</p>	

	<ul style="list-style-type: none"> a. Outline the approach to remediating the site including extent of remediation, remediation methodology and scheduling, contaminated material disposal location and validation sampling plan; and b. Be prepared in accordance with the Ministry for the Environment <i>Contaminated Land Management Guidelines No. 1: Reporting on Contaminated Sites in New Zealand</i> (Revised 2011). 	
19	All contaminated site remediation works must be supervised by the SQEP and must be undertaken in accordance with the RAP.	
20	<p>The Consent Holder must:</p> <ul style="list-style-type: none"> a. Dispose of all material removed under the direction and supervision of the SQEP, and in accordance with the RAP off-site at a suitably licenced facility; and b. Provide the Christchurch City Council, Attention: Team Leader, Compliance and Investigations, with written confirmation of the disposal undertaken in accordance with Condition (20)(a) within ten (10) working days of the disposal taking place. 	<p>Comment on earlier draft:</p> <p><i>This is good – but doesn't seem to be in the ECan consent.</i></p> <p><u>Response:</u> With respect to site remediation (pre-existing contamination), this falls within the jurisdiction of CCC (NESCS).</p>
21	<p>On the completion of the site remediation works the Consent Holder must provide the Christchurch City Council, via rcmon@ccc.govt.nz, Attention: Team Leader Compliance, with a Site Validation Report (SVR) prepared by the SQEP to confirm that the site has been remediated in accordance with the RAP.</p> <ul style="list-style-type: none"> a. Quarrying activities shall not commence until certification has been received from Christchurch City Council that the site has been remediated in accordance with the SVR. b. The SVR must: <ul style="list-style-type: none"> i. Be prepared and undertaken by a the SQEP; and ii. Be prepared and undertaken in accordance with the Ministry for the Environment Contaminated land management guidelines No. 5: Reporting on Contaminated Sites in New Zealand (Revised 2011); and iii. Confirm that the levels of soil contaminants at the Site are equal to or less than the background levels of contaminants at the Site. 	

	<ul style="list-style-type: none"> c. If the consent holder has not received a response from the Christchurch City Council Attention: Team Leader, Compliance and Investigations within 60 working days of the date of submission of the SVR in accordance with Condition (21), the SVR must be deemed to be certified. d. In considering the SVR for the purpose of certification in Condition 21(a) above, Christchurch City Council may, due to the scale or complexity of the SVR, and with the agreement of the Consent Holder, extend the time period for certification provided the extended time period does not exceed a further 60 working days. e. If the response from the Christchurch City Council is that Council is not able to certify the SVR, Council must specify recommended amendments and/or additions to the SVR. f. The Consent Holder must consider any reasons and recommendations provided by Council and resubmit an amended SVR to Council. 	
22	<p>Quarry Operations Management Plan</p> <p>Prior to the commencement of any activity authorised by this consent, the Consent Holder must prepare a Quarry Operations Management Plan, for incorporation in the QMP. The Quarry Operations Management Plan must:</p> <ul style="list-style-type: none"> a. Include the construction drawings and procedures, methods and measures to address the following: <ul style="list-style-type: none"> i. Dust control, including specific reference to the protection of overhead transmission lines and towers; ii. Earthworks; iii. Maintenance at all times of adequate electrical safety clearances as required by NZECP34 between buildings, structures, earthworks, mobile plant, personnel working near the transmission lines and the conductors of the overhead transmission lines. Maintenance of existing access arrangements to the transmission lines and towers; iv. Potential adverse effects on the structural integrity of the transmission line towers from changes to the drainage and runoff characteristics during the post site development. 	

	<p>b. Describe the procedures and practices designed to avoid any adverse effects associated with the Quarry operations on CIAL assets, infrastructure and/or operations, including:</p> <ul style="list-style-type: none"> i. Ensuring there are no permanent waterbodies created as a result of quarrying operations or site rehabilitation practices. ii. Providing appropriate drainage, ensuring the potential for temporary standing water is minimised, particularly after rainfall events, with respect to all quarrying and site rehabilitation works. iii. Utilising low-seed generating grass species which do not attract birds or insect species that in turn attract birds for all quarry operations that require revegetation. iv. Managing all waste and rubbish on-site through the use of a covered skip. Ensure the waste skip shall be emptied monthly by an approved contractor and the waste disposed of to an approved waste-transfer station. v. Confirm that fixed lighting shall not be installed at the Quarry. <p>NB: In the unlikely event that fixed lighting is required as a result of Health & Safety legislative requirements for quarrying operations, the fixed lighting shall be installed and operated in such a way as to not distract aircraft pilots. The Consent Holder shall submit a Lighting Plan to CIAL for confirmation of compliance with CIAL aircraft safety standards prior to the install of any fixed lighting.</p> <ul style="list-style-type: none"> 1. With respect to a Lighting Plan, if the Consent Holder has not received a response from CIAL within 20 working days of the date of submission under Condition (22), the Lighting Plan must be deemed to be acceptable to CIAL and may be implemented. 2. In the event that CIAL proposes amendments to the Lighting Plan, the Consent Holder must amend the Lighting Plan in order to ensure the safety of aircraft and the CIAL operations. 	
23	<p>Quarry Environmental Site Management Plan (QESMP)</p> <p>The Consent Holder must prepare, maintain and comply with a Quarry Environmental Site Management Plan. The QESMP must:</p> <ul style="list-style-type: none"> a. Describe the operation of the site in relation to its impact on the environment. b. Define the actions to be undertaken to ensure compliance with all Conditions of this Consent (RMA/2019/373) or any Variation of this Consent; 	

	<ul style="list-style-type: none">c. Define the actions to be undertaken in response to any incident that may impact adversely on the environment;d. Identify the staff member or authorised external consultant responsible for each action and specify the name, experience and qualifications of a person nominated by the site owner to supervise the implementation of and adherence to the QESMP.e. Include details of the steps to be undertaken to correct any element of non-compliance.f. Include a code of conduct for drivers of vehicles and visitors to the site, including ensuring all heavy vehicle operators are aware of the heavy vehicle routes from the site to Pound Road.g. Include details of measures to prevent drivers from using the Guys Road/Ryans Road route during the morning and afternoon peak traffic periods.h. Include details of the designated route to and from the Quarry and ensure that all drivers are aware that heavy vehicles shall not take Hasketts Road, School Road or the southern section of Guys Road (School Road to Ryans Road section) when accessing or exiting the Quarry, at any time.i. Include details of the 3-strike warning system and driver ban should the drivers take the incorrect route.j. Include details of the maintenance of the bunds.k. Include protocols for the operation of equipment to avoid excessive noise, to ensure compliance with Conditions (65) to (67).l. Include details as to the nature and staging of the quarrying activities.m. Include details of the staging of rehabilitation to ensure compliance with Conditions (34) to (36).n. Include procedures for recording and responding to complaints, to ensure compliance with Condition (82).	
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24	<p>Cleanfill Management Plan</p> <p>a. The cleanfill operations must be undertaken in accordance with a Cleanfill Management Plan (CMP). The CMP must be retained on site at all times and the Consent Holder must ensure all appropriate personnel working on the site are made aware of and have access to it. The CMP must include:</p> <ul style="list-style-type: none"> i. A description of the content and purpose of the CMP; ii. Demonstrate how Condition 24 to 30 of this resource consent will be complied with; iii. Details of the operation of the site, including details of staging of works, area, depth, cleanfilling activities and site rehabilitation; iv. Details of the on-site staff training procedures; v. The contact details of the staff member(s) responsible implementing the CMP; vi. Details of the actions to be undertaken to ensure compliance with the conditions of this resource consent and actions to be undertaken in response to any incident that may adversely affect the environment; vii. The steps to be undertaken to correct incidences of non-compliance with the conditions of this consent; viii. A description of operational procedures and monitoring that will be used to prevent unauthorised cleanfill material from entering the site; ix. A list of acceptable cleanfill material as defined in Condition 24 of this resource consent; x. How rejected cleanfill material will be stored pending its removal to an authorised landfill or approved disposal facility; xi. The maximum length of time that rejected material can be stored on site pending its removal; xii. Construction procedures to ensure the long-term stability of cleanfill areas; xiii. Procedures for improving and/or reviewing the CMP; and xiv. Procedures for recording and responding to complaints. <p>Advice note. <i>For the avoidance of doubt, the CMP forms part of the Quarry Management Plan (QMP). Accordingly, "certification" will occur under Condition 16.</i></p>	

	Cleanfill Waste Acceptance Criteria	
25	<p>Material deposited in the excavated area as cleanfill is for the purpose of backfilling the excavated quarry in preparation for rehabilitation. The material deposited must:</p> <ul style="list-style-type: none"> a. only include material defined as cleanfill in accordance with the document – “<i>A Guide to Cleanfill Management</i>”; MfE; 2002; and b. not contain more than 3% vegetative matter, in accordance with Rule 5.177(2) of the Canterbury Land and Water Regional Plan; and c. only include soils that meets the Canterbury Regional background levels for the site (SOL Quarry) which are described in: <ul style="list-style-type: none"> i. <i>Background concentrations of selected trace elements in Canterbury soils. Addendum 1: Additional samples and Timaru specific background levels. Environment Canterbury Report R07/1/2, Trace Elements Level 2: Regional – Recent for Heavy Metals; or</i> ii. <i>(reference: Buckland, S., Ellis, H.K., and Salter, R.T. (1998). Organochlorines in New Zealand: Ambient concentrations of selected organochlorines in soils. Wellington, New Zealand: Ministry for the Environment. ISBN 0-478-09034-X; and Tonkin & Taylor (2007). Background Concentrations of polycyclic aromatic hydrocarbons in Christchurch urban soils. Environment Canterbury Report R07/19.); or</i> iii. <i>Tonkin & Taylor (2007). Background Concentrations of polycyclic aromatic hydrocarbons in Christchurch urban soils. Environment Canterbury Report R07/19.);</i> d. not be deposited into groundwater or standing water; and e. be located at least one metre above the highest groundwater level as determined under the Conditions of this resource consent; and f. not include concrete slurry, hydro-excavation, or coal tar wastes. 	

	<p>Advice Note:</p> <ol style="list-style-type: none"> 1. <i>The Consent Holder may use Canterbury Maps as a tool to determine whether a source site has the same background levels of contaminants as the SOL Quarry.</i> 2. <i>A definition of cleanfill is attached as Schedule 1.</i> 3. <i>The ambient concentration of DDT in Canterbury soils of 0.431 milligrams per kilogram.</i> 4. <i>The regional background concentration for polycyclic aromatic hydrocarbons in Canterbury soils of 0.922 milligrams per kilogram.</i> 	
26	<p>The Consent Holder must adhere to the following process related to the determination of the acceptability of cleanfill materials, prior to the acceptance of the first load of cleanfill from a site:</p> <ol style="list-style-type: none"> a. All Clients must provide a “Cleanfill Declaration” for each site from which material will be sourced to dispose of as cleanfill to the SOL Quarry Administration Manager at least 24-hours prior to the arrival of the first load of cleanfill materials at the SOL Quarry. The Cleanfill Declaration must include details of: <ol style="list-style-type: none"> i. The name of the Client and the company delivering the material; ii. The date for the deposition of the first load of cleanfill materials; iii. The physical address of the site the material is sourced from; iv. A description of the material; v. Details of the site showing that trace element concentrations are equivalent or less than background levels, a LLUR statement, any available preliminary site investigations, detailed site investigations, remedial action and site validation reports. vi. Any authorisation under which the material is to be removed from the source site (e.g. resource consent); vii. The approximate weight or volume of the delivered material; and viii. A signed declaration or formal agreement between the Client delivering cleanfill to the site and the Consent Holder that the deposited material meets the acceptance criteria specified in Condition (25) of this resource consent. b. Independently of (a) above, review Canterbury Maps GIS database to determine whether soils meet the Canterbury Regional background levels at the SOL Quarry, as described in: 	

	<ul style="list-style-type: none"> i. <i>Background concentrations of selected trace elements in Canterbury soils. Addendum 1: Additional samples and Timaru specific background levels.</i> ii. <i>Environment Canterbury Report R07/1/2, Trace Elements Level 2: Regional – Recent for Heavy Metals;</i> <p>c. If material exceeds the background levels of the site, the material must not be accepted unless the Client provides a Site Validation Report confirming the background levels of selected trace elements referred to in Condition (25)(c) are at or below the background levels at the SOL Quarry.</p> <p>d. If the soils have concentrations that are either equivalent or less than the background levels, the Consent Holder must use the CRC Listed Land Use Register (LLUR) to identify potentially hazardous land uses, either current or historical.</p> <p>e. If the LLUR shows that the material is not from a potentially contaminated site, a preliminary site investigation must be undertaken by a Suitably Qualified and Experienced Practitioner (SQEP) to review available information related to the site history and the likelihood of soil contamination due to of historical land uses and activities.</p> <p>f. If the PSI finds the soil is likely to have been contaminated by historical and/or current land uses or activities, soil must not be accepted as cleanfill unless the owner of the material source site (or Client) undertakes a DSI to confirm soil quality results are acceptable for cleanfill or that contaminated soil has been remediated and validated and provides Site Validation Report.</p> <p>g. If the LLUR shows that the material is from a potentially contaminated site, the owner of the material source site (or Client) must provide fully site assessment and a SVR before material can be accepted.</p> <p>h. Upon acceptance of cleanfill form a site, the site will be allocated a unique Quarry Cleanfill number (QC number). The QC number will be a unique identifier for a site and will be recorded in the electronic register detailed in Condition (26).</p>	
27	The Consent Holder must install a camera at the weighbridge to facilitate an inspection of each load of material, when the material is received on-site for deposition. The Consent Holder must adhere to the following procedures relating to the acceptance of cleanfill:	

	<ul style="list-style-type: none"> a. ALL loads of cleanfill must be weighed and inspected at the site weighbridge; b. Trucks will deposit loads of cleanfill material in an area designated within the Crushing Area for cleanfill management, a minimum of 3-metres above the Quarry Pit floor; c. Dedicated Quarry staff will inspect the load deposited under Condition 26(b) to ensure it meets the cleanfill acceptance criteria specified in Condition (24) and the load description provided in accordance with Condition (25) before the cleanfill is layered into the excavated Quarry Pit; d. Quarry staff will reject any load that does not meet the cleanfill acceptance criteria specified in Condition (24) and/or the load description provided in accordance with Condition (24); e. Update the electronic record referred to in Condition (27), in accordance with Condition (26) by recording the weight and inspection information in Condition (26). 	
28	<p>An electronic record of all cleanfill material deposited at the site must be maintained and held on site for the duration of this resource consent. This record must include:</p> <ul style="list-style-type: none"> a. The unique cleanfill identification number (QC number); b. The name of the Client and the company delivering the material; c. The date for the deposition of the first load and every subsequent load of cleanfill materials from the site; d. The physical address of the site the material is sourced from; e. A description of the material; f. Details of the site showing that trace element concentrations are equivalent or less than background levels, the LLUR statement, any preliminary site investigations undertaken and any Site Validation and Site Remediation Reports. 	

	<ul style="list-style-type: none"> g. Any authorisation under which the material is to be removed from the source site (e.g. resource consent); h. The approximate weight or volume of the delivered material; and i. A signed declaration or formal agreement between the Client delivering cleanfill to the site and the Consent Holder that the deposited material meets the acceptance criteria specified in Condition (25) of this resource consent. <p>The Consent Holder shall maintain a back- up copy of the electronic record. The electronic record shall be provided to Christchurch City Council on request.</p>	
29	<ul style="list-style-type: none"> a. If any material other than cleanfill is suspected or confirmed at the deposition area, the Consent Holder must: <ul style="list-style-type: none"> i. Notify the Team Leader Compliance, Christchurch City Council within 4-hours; and ii. Provide an opportunity for the Team Leader Compliance, Christchurch City Council, or his/her representative, to attend the Quarry and site the material; and iii. Ensure the area is marked and closed off immediately; and iv. Remove this material within five working days of identifying that it should not have been deposited; and v. Arrange for its disposal. b. Any material rejected in accordance with Condition (27) or removed from the site in accordance with Condition (29), shall be disposed of at a suitably licensed facility, and the Consent Holder must provide the Team Leader Compliance, Christchurch City Council, with written confirmation of such disposal within ten (10) working days of the disposal taking place. 	
30	<p>No cleanfill material shall be deposited at the site which has been sourced from a site defined as 'potentially contaminated'.</p> <p>Advice Note: For the purpose of this consent, 'potentially contaminated' means a part of a site where an activity or industry described in the list in Schedule 3 of the Canterbury Land and Water Regional Plan, which is attached as Attachment 1 and forms part of this resource consent, has or is being undertaken on it or where it is more likely than not an activity or industry described in the list in Schedule 3, is being or has been undertaken on it, but excludes any site where a detailed site</p>	

	<i>investigation has been completed and reported and which demonstrates that any contaminants in or on the site are at, or below, background concentrations.</i>	
	Excavation	
31	The maximum depth of quarry must be in accordance with the levels detailed in CRC193563.	
32	Once the final pit depth and suitable working area on the pit floor has been established all excavation of aggregates shall occur from the quarry face in a west to east direction.	
	Community Quarry Liaison Group	
33	<p>The Consent Holder must facilitate the establishment a Community Quarry Liaison Group (CQLG) in accordance with the following requirements:</p> <ul style="list-style-type: none"> a. The purpose of the CQLG is to: <ul style="list-style-type: none"> i. Facilitate the engagement on an on-going and regular basis about matters associated with the quarrying operations as they relate to consent compliance; ii. Promote the flow of information between the local community and the consent holder so as to, wherever possible, address any consent compliance issues that may arise; and iii. Facilitate discussions the results of consent compliance monitoring and any matters that may arise as a result of the monitoring. b. The CQLG must initially comprise up to two representatives of the Consent Holder, and the Consent Holder must invite one representative of the Christchurch City Council, one representative of the Canterbury Regional Council, one representative of the residents along Conservators Road, and representatives of the relevant Kaitiaki Rūnanga. <p>Advice Note: <i>This condition only governs initial establishment for the purposes of convening the first meeting of the CLG. The consent Holder acknowledges that it will be for the Residents along Conservators Road to decide whether or not they want to become involved. On-going membership will also be determined by the CQLG.</i></p> <ul style="list-style-type: none"> c. The consent holder must ensure that members of the CQLG are provided with the opportunity and facilities to meet: 	

	<ul style="list-style-type: none"> i. At least 30 working days prior to the start of any <i>site preparation</i> activities; and Not less frequently than six-monthly during the first four years of quarrying operations and annually thereafter, unless all members of the CQLG agree there is no need for a meeting; d. If the Consent Holder, in progressing any element of the quarry, wishes to call a meeting of the CQLG to obtain community input, the meeting regime may be shifted to accommodate such a request; e. The time, date and venue of proposed meetings must be notified to members of the CQLG at least 15 working days prior to the meeting date; f. Minutes of the CQLG meetings must be kept by the Consent Holder and be made publicly available; g. The Consent Holder must engage an independent chairperson to facilitate CQLG meetings. h. The Consent Holder must meet the reasonable administrative costs of the CQLG meetings (e.g. meeting invitations; meeting venue; preparation of meeting minutes) and facilitation of meetings by an independent chair. <p>Advice Note: <i>In the event that it is not possible to establish a CQLG or convene meetings through lack of interest or participation from the residents, then such failure to do so will not be deemed a breach of these conditions. Should the residents wish to re-establish meetings after a period of inactivity then the conditions above shall continue to apply.</i></p>	
	<p>Rehabilitation</p>	
34	<p>Rehabilitation shall be undertaken in accordance with a Quarry Rehabilitation Plan. The Quarry Rehabilitation Plan shall be retained on site at all times and the Consent Holder shall ensure all appropriate personnel working on the site are made aware of and have access to it. The Quarry Rehabilitation Plan shall:</p> <ul style="list-style-type: none"> a. Be prepared in accordance with the provisions of the Quarry Rehabilitation Guidance; Christchurch City Council; 2018. 	<p>Comment from an earlier draft:</p> <p><i>Still missing details on cleanfill availability, a staging plan, the review process and final land uses. Probably best to let the commissioners decide on the final version of the condition as I know your preference was for the condition to be less prescriptive. I'm also still a bit</i></p>

	<ul style="list-style-type: none"> b. Be prepared by a suitably qualified and experienced person. c. Demonstrate how Condition (35) of this resource consent will be complied with. d. Contain a description of the content and objectives of the Quarry Rehabilitation Plan. e. Contain a detailed description of rehabilitation procedures, the key principles and the proposed final landform. f. Contain a detailed description of rehabilitation staging, including an indication of date for completion of each stage of the rehabilitation. g. Contain a description of the cleanfill material used for rehabilitation. h. Contain a description of potential land use activities including activities that are permitted by the Christchurch District Plan. i. Assess the stability and surface drainage, including methods for reducing the potential for ponding on rehabilitated areas. j. Contain a description of the landscape planting and maintenance. k. Include a process for review of the Quarry Rehabilitation Plan. 	<p><i>concerned about the timeframes being quite general – i.e. just says the land will be rehabilitated when cleanfill is completed – but have provided no estimation of when this would be.</i></p> <p><u>Response:</u></p> <p>SOL has added significantly more detail into the Conditions.</p> <p>SOL is seeking confirmation that the amended Conditions address CCC’s concerns.</p>
35	<p>The Consent Holder shall progressively rehabilitate the site and shall ensure that any area where cleanfilling activities have been completed is rehabilitated within six-months of the completion of cleanfilling. The rehabilitated site will be recontoured to mimic the subtle landforms that characterise the historic riverbed in the immediate locality of the site.</p> <p>The rehabilitation shall include but not be limited to:</p> <ul style="list-style-type: none"> a. Backfilling of the area with cleanfill and contouring to approximate the existing landforms in the immediate locality of the site; 	<p>Comment from an earlier draft:</p> <p><i>I want the condition to make clear that no more than two stages of the quarry are to be open at once (i.e. stage 1 must be fully rehabilitated including all cleanfilling before you start stage 3).</i></p> <p><i>I want the condition to make clear that:</i></p> <ul style="list-style-type: none"> - <i>No more than two stages of the quarry are to be open at once (i.e. stage 1 must be fully rehabilitated</i>

	<ul style="list-style-type: none"> b. Spreading a minimum settled depth of 300mm of topsoil over the site. The Consent Holder shall utilise stored overburden and topsoil from the Quarry and the bunds to rehabilitate the site and shall maintain the recontour described in Condition (35)(a); c. Topsoil is not to be compacted during spreading; rather topsoil is to be tilled or ripped to improve drainage; d. The development of a free-draining and stable landform; e. Re-grassing and re-planting all exposed areas as soon as practicable to prevent erosion losses; f. Any re-grassing or re-planting undertaken in accordance with Condition (34)(e) shall use low-seed generating grass species which do not attract birds or insect species, that subsequently attract birds; g. Monitoring and maintaining rehabilitated areas to ensure they are functioning appropriately post-closure; h. During the final stages of rehabilitation, removing all mobile machinery and plant from the site; i. Ensuring the site is suitable for the future use of the site as detailed in the Quarry Rehabilitation Plan and uses consistent with the <i>permitted activities</i> prescribed in the Christchurch District Plan; j. Rehabilitation of the site shall be undertaken so that a completed grass cover is achieved no later than 6 months from completion of all excavation and cleanfilling activities. Dust mitigation measures must continue to be employed on site until this grass cover is achieved; and k. Monitoring and maintaining the progress of the vegetation and reseedling if necessary, i.e. if the germination rate is satisfactory, controlling weeds, mowing and/or grazing to ensure rehabilitated areas are functioning appropriately, with a minimum 80% grass cover, post-closure, for a period of 24 months. 	<p><i>including all cleanfilling before you start stage 3).</i></p> <ul style="list-style-type: none"> - <i>Site must be fully rehabilitated by end of the consent period (20 years) - Want this in this condition as well as condition 1 to make it really clear.</i> <p><u>Response:</u></p> <p>SOL has amended the Condition, as requested and included an explicit Condition relating to full rehabilitation of the site prior to the expiry of the consent.</p> <p>SOL is seeking confirmation that the amended Conditions address CCC's concerns.</p>
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	<p>i. The cleanfill and Quarry rehabilitation must be completed, in full, on or before the expiry date of the resource consent.</p>	
36	<p>The boundary shelter-belt plantings are not to be removed during the quarry rehabilitation works or at the end of the consent duration. The boundary shelter-belt plantings are to remain in-situ.</p>	
	<p>Transpower</p>	
37	<p>No activity authorised by the consent shall be undertaken unless the Consent Holder has provided adequate evidence that the minimum safe distances required by NZECP 34:2001 will be met or that Transpower NZ Limited has provided written confirmation to the Quarry Manager or other nominated person(s) of it consenting to those distances being reduced.</p>	
38	<p>A copy of the electrical engineer's report confirming that the distances have been met is to be submitted to Transpower NZ Limited.</p>	
39	<p>Where landscaping is to be undertaken, all newly planted low-seed generating grass species which do not attract birds or insect species that in turn attract birds, shall:</p> <ul style="list-style-type: none"> a. Be setback by a horizontal distance of at least 12 metres either side (total of 24 metres) from the centre line of all Transpower transmission lines; and b. When fully-grown, not come within 5 metres of the said Transpower transmission lines and not be able to fall within 5 metres of the said transmission lines. 	
40	<p>The Consent Holder shall:</p> <ul style="list-style-type: none"> a. Ensure that the vertical distance from the ground to the conductors will not be reduced to less than the minimum required by NZECP34 subsection 4.3.1 outlined in Table 4. b. Undertake excavations so there is a batter slope no steeper than 1(v):3(h) between the setback described in Condition (39) and the nearest excavation pit. c. Ensure that the processing plant used for aggregate crushing and screening is not located within 100m from the centre line of the Islington-Kiliwa B National Grid transmission lines. 	

	<p>d. Not undertake cleanfilling or extractions within a horizontal distance of 20 metres from the outside edge of the Islington-Kiliwa B National Grid transmission lines between Towers ISL-KIK-A0018 and ISL-KIK-B00.</p>	
41	<p>Any batter slope between the 20-metre setback, as specified in Condition (39) and the nearest excavation pit shall be designed by a Suitably Qualified Geotechnical Professional, and erosion control measures employed and maintained as necessary, to ensure the long-term integrity of the slope. This shall be confirmed in writing by the geotechnical professional and submitted to Transpower along with the proposed quarry designs for review at least 20 working days prior to Quarry activities occurring within 100-metres of the foundation of any transmission line tower.</p> <p>Any comments provided by Transpower must be submitted to the Council.</p>	
42	<p>Before any quarry activities commences on site, the Consent Holder shall commission a Suitably Qualified Electrical Engineer, who is experienced with high voltage transmission lines, to undertake an assessment of:</p> <ul style="list-style-type: none"> a. The existing clearances between the ground and the conductors; and b. The expected clearances between the ground and the conductors upon completion of the earthworks. 	
43	<p>The Consent Holder shall:</p> <ul style="list-style-type: none"> a. Ensure the activities authorised in Condition (1) do not create any dust hazard or nuisance to the Transpower transmission lines and towers which are within or close to the application site; and b. Ensure the processing plant is not located within 100 metres from the centre line of the Islington-Kiliwa B National Grid transmission lines. 	
44	<p>No filling shall be undertaken within 20 metres of the centre line of the Islington-Kiliwa B National Grid transmission lines between Towers ISL-KIK-A0018 and ISL-KIK-B00.</p>	

	Christchurch International Airport	
45	<p>The Consent Holder shall adopt the following procedures and practices specifically designed to avoid any adverse effects associated with the Quarry operations on CIAL assets, infrastructure and/or operations:</p> <ul style="list-style-type: none"> a. Ensure no activities take place in the base of the Quarry Pit floor which involve the feeding or encouragement of birds; and b. Managing the Quarry Pit floor to ensure that any surface ponding drains freely, while rehabilitated areas shall be designed and finished to be free draining surfaces. No surface water ponding may occur for longer than 48 hours; and c. Ensure there are no permanent waterbodies created as a result of quarrying operations or site rehabilitation practices; and d. All quarrying and site rehabilitation works will provide for appropriate drainage, ensuring the potential for temporary standing water is minimised, particularly after rainfall events and that no ponding occurs for longer than 48 hours; and e. All quarry operations that require revegetation shall utilise low-seed generating grass species which do not attract birds or insect species that in turn attract birds and shall be managed to minimise seed production and long-term dust issues associated with the Quarry operations; and f. All waste and rubbish on-site shall be managed through the use of a covered skip. The waste skip shall be emptied monthly by an approved contractor and the waste disposed of to an approved waste-transfer station; and g. Fixed lighting shall not be installed on the Quarry. However, in the unlikely event that fixed lighting is required as a result of Health & Safety legislative requirements for quarrying operations, the fixed lighting shall be installed and operated in such a way as to not distract aircraft pilots. The Consent Holder shall submit a Lighting Plan to CIAL for 	

	confirmation of compliance with the Civil Aviation Act 1990 and protection of CIAL operations, in particular aircraft safety, prior to the install of any fixed lighting.	
46	<p>An emergency contact person responsible for on-site operations and her/his contact details must be provided to CIAL prior to this consent being exercised.</p> <p>If the emergency contact person should change during the exercise of this consent, the Consent Holder shall advise CIAL of the new contact details of the emergency person.</p>	
47	All refuse bins onsite must be closed and sealed with a flush fitting lid that cannot be propped open to avoid attracting birds or rodents, to shelter the contents from rainfall, and to secure the waste in the event of windy conditions. These bins shall be used to store all refuse and all solid waste. The waste skip shall be required to be emptied monthly by an approved contracted and the waste disposed of to an approved waste-transfer station by an appropriately licenced operator.	
48	Subject to arrangement with the Quarry Manager and compliance with SOL Quarry's Health, Safety and Environmental policies and procedures, CIAL's Planning Staff and/or Wildlife Management Officer, with or without CIAL Ornithological or Pest Management Consultants and their staff, may undertake Site Visit(s) for the purposes of pest bird monitoring or management and to check compliance with Conditions that relate to bird strike risk.	
	Traffic	
49	<p>The activity shall be limited to a maximum of:</p> <ul style="list-style-type: none"> i. 300 heavy vehicle movements per day (150 movements in and 150 movements out); and ii. 30 light vehicle movements per day (15 movements in and 15 movements out). 	
50	<ul style="list-style-type: none"> a. All heavy vehicles exiting the site between the hours of 7:00am until 9:00am and 4:00pm until 6:00pm must not turn right and shall turn left to exit from the site onto Guys Road. b. The vehicle access shall be designed with control gates that are operated between these periods to ensure that heavy vehicles turn left when exiting the site. 	
51	Appropriate signage shall be erected at the weighbridge and at the Heavy Vehicle exit reinforcing the requirement to turn left on to Guys Road during these hours and that vehicles shall not use Hasketts	

	Road, School Road or the southern section of Guys Road (School Road to Ryans Road section). This signage must either be in accordance with the District Plan rules for signage or a separate resource consent for the signage must be obtained.	
52	<p>The consent holder must maintain records, including an electronic record of all vehicles exiting the site and weighbridge records.</p> <p>This logbook and weighbridge records shall be provided to Council's Compliance and Investigations Team on a bi-monthly basis for the first 6 months and on request thereafter.</p>	
53	Heavy vehicles travelling to and from the quarry shall be instructed not to use Hasketts Road, School Road or the southern section of Guys Road (School Road to Ryans Road section), at any time.	
54	<p>To ensure all drivers are aware of the designated route, which avoids the use of Hasketts Road, School Road or the southern section of Guys Road (School Road to Ryans Road section), at all times, all drivers shall be inducted onto the site, have signed the induction acknowledgement and been provided with a copy of the Contractor Policy and Procedure Handbook, prior to driving heavy vehicles to the site.</p> <p>The Handbook must include:</p> <ul style="list-style-type: none"> i. details of the designated route to be used when accessing and exiting the Quarry; ii. an instruction to not use Hasketts Road, School Road or the southern section of Guys Road (School Road to Ryans Road section), at any time; and iii. Details of the 3-strike warning system and driver ban should drivers take the incorrect route. iv. Evidence of the Induction and a record of disciplinary actions taken will be made available to Council monitoring staff on request. 	
55	The Consent Holder must maintain the sealed Heavy Vehicle Road in good condition, including the infilling of potholes as required. Heavy vehicle access to the site shall be only via the existing Guys Road access. The Conservators Road access is for light vehicles only.	

56	The Consent Holder must seal the internal road between the Weighbridge and Crushing Area and the entire length of the Light Vehicle Access prior to the commencement of quarrying activities.	
57	Traffic monitoring shall be required to be undertaken on an annual basis. Monitoring shall be undertaken using count locations in accordance with the existing Quarry specifications (consent RMA/2015/300), using Austroads or NZTA vehicle class. Records of the monitoring shall be kept on site.	
58	The speed limit on the Haul Road is a maximum of 20 km/h.	
	Noise	
59	All construction activities, as defined in this consent will shall be designed and conducted to ensure that construction noise complies with NZS 6803:199 – Acoustics: Construction Noise.	
60	For the purpose of Condition (59), construction activities shall be defined as any work required to prepare the site for excavation and shall include site rehabilitation works. In particular, activity associated with the removal of trees, relocation of the water race, construction of earth mounds and stripping/ reinstatement of topsoil shall be considered construction activities.	
61	The cumulative noise level from quarry and associated activities, including vehicle movements on the quarry site and accessway, will not exceed the following levels at the notional boundary of any existing dwelling on a neighbouring site: <ul style="list-style-type: none"> a. Daytime (0700-1800): 50dB LAeq (1hr) b. Night-time (1800-0700): 40 db LAeq (1hr) 	
	Dust	
62	The discharge of contaminants to air shall be limited to that from: <ul style="list-style-type: none"> a. Site preparation, topsoil stripping, overburden removal and storage; b. Construction and maintenance of bunds and stockpiles; 	

	<ul style="list-style-type: none"> c. Excavation, loading and transportation of aggregate; d. Stockpiling of excavated aggregate; e. Processing and crushing of excavated aggregate; f. Deposition of cleanfill; g. Rehabilitation activities at the completion of extracting aggregate; h. Movement of vehicles associated with the above activities. <p>at 93 and 133 Conservators Road, legally described as Part RS 3579 and Lot 1 DP 82891 as shown on Plan RMA/2019/373A, attached to and forming part of this resource consent.</p> <p>For the avoidance of doubt, no blasting or the use of a jaw crusher is authorised by this resource consent.</p>	
63	<p>The discharge of contaminants to air associated with Condition (63)(e) shall be limited to a maximum of two crushing plants at any one time.</p> <p>A crushing plant shall include:</p> <ul style="list-style-type: none"> i. A Cone Crusher; and ii. A Powerscreen. <p>The crushing plants shall be located a minimum of 350-metres from the north-east and south-east boundaries of the property, in accordance with the Plan RMA/2019/373A.</p>	
64	<p>The discharge of contaminants into air must not result in an offensive, objectionable, noxious or dangerous effect beyond the site boundaries.</p>	
65	<p>The Quarry Manager, or another nominated person, shall be available at all times (including outside quarry operation hours) to respond to dust emissions complaints and issues. The contact details shall be displayed on signage at the Heavy Vehicle Entrance, the Light Vehicle Entrance and at the Quarry Office adjacent to the Weighbridge. With the exception of the Quarry Office signage, the contact details must be able to be read from outside the gates.</p>	

66	<p>The operating hours of the site shall be:</p> <p>Provided that:</p> <ul style="list-style-type: none"> i. No aggregate processing, including loading, crushing, and screening, shall occur on the site prior to 0700 at any time; and ii. No heavy vehicles shall access or leave the site prior to 0700. The access gate on Guys Road shall be locked at all times prior to 0700. iii. No heavy vehicle shall access the Heavy Vehicle Access Road prior to 7:00am. iv. In order to ensure compliance with Condition 67)(iii), the Consent Holder will construct a swing arm gate proximate to the Weighbridge preventing access to the Heavy Vehicle Access Road prior to 7:00am daily. 	
67	No activities other than dust mitigation shall be undertaken on Sundays or public holidays.	
68	<p>The maximum unconsolidated area shall be limited at any one time to:</p> <ul style="list-style-type: none"> a. Nine hectares for the total quarrying activities area, defined as including the internal unsealed roading network, the Crushing Area, the excavated Quarry Pit, the area stripped in preparation for quarrying; the active Cleanfill Area, and the area currently undergoing rehabilitation. b. Two hectares at any one time for the active quarrying operations area, defined as the Crushing Area, the excavated Quarry Pit and the active Cleanfill Area. 	
	Automated Sprinkler System	
69	During the <i>Enabling Works</i> , and prior to the commencement of quarry operations, the Consent Holder shall have an automated sprinkler system designed, installed, commissioned and maintained in accordance with CRC193564.	

70	<ul style="list-style-type: none"> a. The consent holder shall prepare and submit a Dust Management Plan (DMP). b. A copy of the DMP shall be submitted to Christchurch City Council, Attention: Team Leader, Compliance. 	
71	<p>The Consent Holder shall utilise all reasonably practicable measures to minimise the discharge of dust from quarry activities on-site:</p> <ul style="list-style-type: none"> a. When wind speeds reach or exceed 7 m/s for a one-hour average; and b. On dry days; and c. When there is any visible emission of dust from the site. <p>Advice Note. <i>Dry days means when there is less than 1 millimetre of rain or when less than 1 millimetre of rain has fallen during the past 24-hours or ground conditions are visibly dry.</i></p>	
72	<p>Stockpiles shall be managed as follows:</p> <ul style="list-style-type: none"> a. Stockpiles will be dampened with water to minimise dust emissions; and b. Stockpiles generated during site preparation works shall: <ul style="list-style-type: none"> i. Only comprise of topsoil, overburden and aggregate; ii. Have a height no greater than 3.0 metres above natural ground level; iii. Must not be visible from Conservators Road south of 133 Conservators Road above the bunds; and c. Stockpiles of extracted gravel and processed aggregates shall: <ul style="list-style-type: none"> i. Be located within the Crushing Area, in accordance with the Plan (RMA/2019/373) attached, at a depth of at least five metres below natural ground level; 	

	<ul style="list-style-type: none"> ii. Have a maximum height of 8-metres; iii. Have a maximum volume of 15,000 cubic metres in any stockpile at any one time; and iv. Be located a minimum of 350-metres from the north-east boundary and the south-east boundary of the Quarry; and <p>d. Any long-term stockpiles of topsoil, overburden or aggregate shall be sown with low seed generating grass species which do not attract birds or insect species that in turn attract birds.</p>	
73	The Consent Holder shall use a water suppression system comprising mist sprinklers, on the conveyor arms of the screening plant specified in Condition (64) of this resource consent at all times for the duration of this resource consent, unless water suppression using mist sprinklers is not deemed necessary due to weather conditions, specifically rainfall events of sufficient intensity to compensate for use of the mist sprinklers.	
74	The Consent Holder shall maintain a record of all times when subject to a water restriction of water from the Paparua Stockwater Race.	
75	The Consent Holder shall install and maintain meteorological monitoring instruments.	
	Complaints	
76	The consent holder must keep a record of all complaints and any responses or investigative action taken as a result. This record shall be provided to the Team Leader Compliance, Christchurch City Council, on request.	
	Accidental Discovery Protocol	
77	<p>In the event of any discovery of archaeological material:</p> <ul style="list-style-type: none"> a. The Consent Holder shall immediately: <ul style="list-style-type: none"> i. Cease earthmoving operations in the affected area and mark off the affected area; and ii. Advise the Christchurch City Council and the Canterbury Regional Council of the disturbance; and 	

	<p>iii. Advise Heritage New Zealand of the disturbance.</p> <p>b. If the archaeological material is determined to be Kōiwi Tangata (human bones) or taonga (treasured artefacts) by Heritage New Zealand, the consent holder shall immediately advise the office of the appropriate Rūnanga (office contact information can be obtained from the Christchurch City Council) of the discovery.</p> <p>c. If the archaeological material is determined to be Kōiwi Tangata (human bones) or taonga (treasured artefacts) by Heritage New Zealand, the consent holder shall immediately advise the office of the appropriate Rūnanga (office contact information can be obtained from the Christchurch City Council) of the discovery.</p> <p>d. If the archaeological material is determined to be Kōiwi Tangata (human bones) by Heritage New Zealand, the consent holder shall immediately advise the New Zealand Police of the disturbance.</p> <p>e. Work may recommence if Heritage New Zealand (following consultation with Rūnanga if the site is of Maori origin) provides a statement in writing to the Team Leader Compliance, Christchurch City Council, that appropriate action has been undertaken in relation to the archaeological material discovered. The Christchurch City Council shall advise the consent holder on written receipt from Heritage New Zealand that work can recommence.</p>	
	Covenant	
78	<p>Once all extraction and rehabilitation activities are complete, the land shall not be used for the following activities:</p> <p>a. Intensive pastoral farming, where the stock density or the nature of the activity does not maintain ground cover without irrigation; or</p> <p>b. Intensive animal farming, such as cattle feedlots, pig farms, poultry farms or any other farming operation where animals are housed, and their collected effluent disposed of on the site; or</p> <p>c. Any activity involving the use or storage of hazardous chemicals, including petroleum products, in quantities greater than normal on rural-residential property.</p>	
79	An encumbrance or covenant in favour of the Consent Authority under section 108(2)(d) of the Resource Management Act 1991 shall be registered against all land titles of the site to give effect to	

	the limitations on subsequent land use activities set out in Condition (above), within six months of the commencement of this resource consent.	
	Company (Consent Holder) Commitment to Obligations	
80	A responsible Officer of the Company (the Consent Holder) must provide formal advice, in writing, regarding the financial viability of the Company, with specific reference to obligations of the Company under the Consents in relation to rehabilitation of the Quarry site, at the request of Christchurch City Council.	
	Review	
81	Pursuant to Section 128 of the Resource Management Act 1991, the Christchurch City Council may, once per year, on any of the last five working days of May or November, serve notice of its intention to review the conditions of this consent for the purpose of dealing with any adverse effect on the environment and more particularly any effect associated with rehabilitation which may arise from the exercise of the consent and which is appropriate to deal with at a later stage.	

Advice Note:

The Consent Holder must comply with the following resource consents from the Canterbury Regional Council:

- CRC193564
- CRC193563
- CRC193773