

Attachment 1 to Officer Reply of Hannah Goslin:

Table showing Regional and District Consents for quarries consented post earthquake in Greater Christchurch area.

Consent holder	Consent number	Activity and location	Date and duration	Operating hours and days	Limits on vehicle movements	Setback from bunds to site boundary	Setback from quarry faces to site boundary	Total area and allowable open area	Dust monitoring	Groundwater quality monitoring
K B Contracting & Quarries Limited	CRC130764	Discharge contaminants to air from extraction, processing and transportation of gravel from unconsolidated surfaces McLeans Island Road, Harewood	Granted 13 December 2012 12 year duration		N/A	No setbacks	No setbacks	No limit on total allowable area	No dust monitoring	N/A
	CRC130762	To excavate land McLeans Island Road, Harewood. Legally described as Lot 47, 49, 53 and 55 DP 402292	13 December 2012 13 year duration		N/A	No setbacks	20 metre setback between excavation and site boundary	40 ha in total area, no limit on allowable open area.	N/A	No groundwater quality monitoring
	CRC173390	To discharge stormwater to land, contaminated water to land and contaminants into air Site located between McLeans Island Road and Conservators Road, legal described as Lots 43-50, 52-56 DP 402292	Granted 10 November 2016 32 year duration	0600 to 1800 Monday to Friday and 0600 to 1200 Saturday	N/A	No setbacks	No setbacks	No limit on total allowable area	No dust monitoring	N/A
	CRC173385	To use land to establish a gravel quarry and deposit cleanfill Site located between McLeans Island Road and Conservators Road, legal described as Lots 43-50, 52-56 DP 402292	Granted 10 November 2016 32 year duration		N/A	No setbacks	No setbacks	No limit on total allowable area	No dust monitoring	N/A
	CCC Consent RM2017/955 Originally RMA92014947 , then split with Fulton Hogan Now RM2017/955	Conservators Road	8 October 2010	0700-1800 M-F 0700-1200 Sat Water to be applied to working areas and road for dust suppression as required. Cease work when wind speed exceeds 7m/s	No conditions re traffic movements	3m bund around the S and West area to be quarried	Excavation shall be at least 10m from site boundaries, except specific stated boundaries which shall be at least 20m. All processing shall be at least 50 from site boundaries.	40ha		

				and there is less than 0.1mm rain per day.							
				No machinery on Sundays/public holidays							
Fulton Hogan Limited	CRC132612	To discharge contaminants to air from quarrying, stockpiling, load out and transportation of aggregates 146 Barbers Road, Christchurch	Granted 27 February 2013 7 year duration	0600 – 1800 Monday to Saturday	N/A	No setbacks.	No setbacks	No limit on total allowable area	Windspeed and direction shall be continuously monitored onsite. If windspeed is 7m/s or greater from W to NW then all excavation, vehicle and machinery movements within 200m of the eastern site boundary shall cease.	N/A	
	CRC132613	To use land to excavate material 146 Barbers Road, Christchurch				N/A	No setbacks	20m setback of undisturbed land along Hasketts Road boundary and 9m setback to all other site boundaries.	No requirement to progressively rehabilitate, excavation must be undertaken in three stages approximately 2 ha per stage.	N/A	No groundwater quality monitoring.
	CRC132614	To use land to deposit material 146 Barbers Road, Christchurch				N/A	No setbacks	No setbacks	No limit on total allowable area	N/A	No groundwater quality monitoring
	CRC173389	To discharge stormwater to land, contaminated water to land and contaminants into air Site located between McLeans Island Road and Conservators Road, legal described as Lot 1 DP 364458 & Lot 40-42, 51 DP 402292	Granted 10 November 2016 32 year duration	0600 to 1800 Monday to Friday and 0600 to 1200 Saturday	N/A	No setbacks	No setbacks	No limit on total allowable area	No dust monitoring	N/A	
	CRC173384	To use land to establish a gravel quarry and deposit cleanfill Site located between McLeans Island Road and Conservators Road, legal described as Lot 1 DP 364458 & Lot 40-42, 51 DP 402292				N/A	No setbacks	No setbacks	No limit on total allowable area	N/A	No groundwater quality monitoring

	CCC RMA92014947 , varied by RMA92020873 then split with KB Construction Now RM2017/953	Conservators Road	8 October 2010	0700-1800 M-F 0700-1200 Sat Water to be applied to working areas and road for dust suppression as required. Cease work when wind speed exceeds 7m/s and there is less than 0.1mm rain per day. No machinery on Sundays/public holidays	No conditions re traffic movements	3m bund around the S and West area to be quarried	Excavation shall be at least 10m from site boundaries, except specific stated boundaries which shall be at least 20m. All processing shall be at least 50 from site boundaries.	40ha		
	CRC168020	To discharge contaminants into air from extraction, handling, processing and conveying of bulk material. 146 Barbers Road & 35 Hasketts Road, Templeton, Christchurch	Granted 10 November 2016 10 year duration		N/A	No setbacks	No setbacks	No limit on total allowable area	No dust monitoring	No groundwater quality monitoring
	CRC168019	To use land for the deposition of material into excavated land over an unconfined aquifer or semi-confined aquifer 146 Barbers Road & 35 Hasketts Road, Templeton, Christchurch			N/A	No setbacks	No setbacks	No limit on total allowable area	N/A	Conditions require representative samples be taken from upgradient and downgradient bores at six- monthly intervals for first two years, then yearly thereafter. Samples shall be compared with contaminant values in Table 1. A contaminant concentration is deemed an exceedance if: a. The concentration is in excess of the trigger values for a contaminant given in Table 1 if the same upgradient concentration is less than the Table 1 values; or b. Any contaminant concentration in the upgradient bore exceeds the upgradient bore contaminant concentration by more than 10% of the Table 1 value. If an exceedance is identified, then a second round of sampling occurs. If an exceedance is confirmed, then the consent holder must immediately:

										<ul style="list-style-type: none"> Notify CRC and all residential occupiers of all adjoining properties within 1km to the S and SE of the cleanfill site; and Implement all necessary measures to reduce the concentration of the contaminant in groundwater.
CRC170262	To discharge contaminants into land arising from the deposition of cleanfill 146 Barbers Road & 35 Hasketts Road, Templeton, Christchurch			N/A	No setbacks	No setbacks	No limit on total allowable area	N/A	Same regime as CRC168019.	
RMA92021283	Barbers Road (35 Hasketts/146 Barbers Road)	21/2/2013 7 years	0600 – 1800 M – Sat, and no movements prior to 0700 No on site processing	50 HVM per day	3m high bund around boundaries	20m setback from Hasketts Road	10.55ha			
CRC150304	To discharge contaminants into air 50 Roberts Road, Islington	Granted 1 October 2014 8 year duration		N/A	No setbacks	No setbacks	No limit on total allowable area	<p>Conditions require continuous monitoring of windspeed and direction.</p> <p>Conditions require the installation of one mobile continuous TSP monitor within 50m of the eastern boundary of the area to be quarried. The TSP monitor must be fitted with an alarm system that, when TSP levels exceed levels in the QMP (no limit set out in conditions), sends a warning to the Quarry Manager to take immediate action necessary to reduce dust emissions from the quarry.</p> <p>Operations shall cease within 50m of the eastern extent of the area to be quarried when:</p> <ol style="list-style-type: none"> The wind is greater than 10m/s (hourly average); and From WSW and NNW; and During the dry weather conditions. 	N/A	
CRC150303	To use land for excavation and deposition			N/A	No setbacks	Setback distances shall be a minimum of: <ol style="list-style-type: none"> 20m of undisturbed 	Aggregate extraction shall be conducted in stages from W to	N/A	No groundwater quality monitoring	

							land along the S, E and N boundary; b. 250m of undisturbed land to residential and rural residential dwellings.	E. Within 6 months of completed a stage or ceasing aggregate extraction of a stage, the site shall be rehabilitate d.		
CCC RMA92026417	50 Roberts Road	29/10/2014 8 years	0700 – 1800 M – F 0700 – 1300 Sat No Sunday/Public Holiday work No quarrying within 50m of E edge of quarry in wind >10m/s, or WSW - NNW or dry conditions No crushing/ Processing on site	Mx 50 truck movements (25 in / 25 out) per hour	3 m high around extraction area.	No closer than 190m to eastern site boundary 20m setback from N, W and S boundaries, and 250m from edge of excavation and any residential unit	19.5ha			
CRC168525	To discharge contaminants into air from extraction, excavation, stockpiling, processing and transportation 26 Miners Road, Yaldhurst	Granted 13 June 2016 26 years		N/A	No setbacks	No setbacks	No limit on total allowable area	The amount of dust deposited shall be measured as follows: a. At four locations and a control location; b. At least once every month; and c. In accordance with method ISO DIS-4222.2 or an alternative, relevant method. The amount of dust deposited at each measurement location shall not be more than 10g/m ² per 30 days above the dust deposition measured at the control location during the same month.	N/A	
RMA 2019/955, being a variation to 2016/365.	582 West Coast Road, incl 552,562,572, 582 West Coast Road and 52, 68, 80 and 92 Kettlewell Drive	Originally granted 27 April 2016. Consent combines Carter site and	RMA 2018/1291 imposes hours of operation across all 3 sites: Ancillary aggregate processing year between 6pm and 10pm	RMA2018/27 provides for a maximum of 900 heavy vehicle movements a day (in a 24 hour period) M – Sat and 250 on	Grass bunds of 3m along West Coast Road and South Kettlewell Road Boundary. Mobile crushing / screening plant to be 400m from any					

			Miners Road East and West into one consent.	is to occur on a maximum of 150 days of each calendar year. Transport of aggregate between 6pm and 6am may occur up to a maximum of thirty vehicle movements per hour. Only 1 loader associated with each of North of Kettlewell and S of Kettlewell 0600 – 0700	Sundays across all 3 sites.	residential unit, screened from any dwelling in the Ru 2 zone by 5m stockpiles or be below GL, and not operate between 0600 and 0700. Mobile conveyor belt shall be 100m from any boundary and be below GL				
The Isaac Construction Company Limited	CRC134935	To discharge contaminants to air from gravel processing operations, stock piles and vehicle movements McLeans Island Road, Harewood	Granted 4 June 2013 35 years		N/A	No setbacks	No setbacks	No limit on allowable open area	No dust monitoring	N/A
	CCC Original consent RM92012793, and subject to various subsequent consents from Isaacs related companies.	160 McLeans Island Road	360ha in total	Extraction, transport and processing 0600-1800, and no activity on Sundays or public holidays.	No traffic movements stated	No bund on E boundary, and a 50m wide grassed strip.	150m setback from Otukaikino Stream			
The Isaac Conservation and Wildlife Trust	CRC147626	To discharge fugitive dust from extraction and transportation of gravel from unconsolidated surfaces 160 McLeans Island Road, Harewood	Granted 28 July 2014 29 years	Dust generating activities shall only occur between the hours of 0600 to 1800 hours from Monday to Saturday.	N/A	No setbacks	Setbacks required as follows: a. 20m of the northern property boundary from 1 May to 30 September in any given year; and b. 100m of the northern property boundary from 1 October to 30 April in any given year.	No limit on allowable open area	No dust monitoring	N/A
	CCC RM92026181	160 McLeans Island Road	53 ha (Stage 10), solely within	0600 – 1800 M-S	19 Truck Movements per hour		No extraction within 100 m of northern boundary until 2m			

	S127 variation to original		Conservation Park.				<p>bund established between extraction area and Northern internal boundary.</p> <p>Once established, no excavation between 1 October and 30 April each year.</p> <p>Between 1 May and 30 September each year, may go to 20m of walkway</p>			
Isaac Conservation Trustees Limited	CRC156891	<p>To discharge contaminants into air from quarrying and cleanfilling activities</p> <p>360 McLeans Island Road, Christchurch</p>	<p>Granted 27 September 2016</p> <p>35 year duration</p>	<p>Works authorised by this consent shall be carried out only:</p> <ol style="list-style-type: none"> Between 7:00am and 6:00pm Monday to Saturday; There shall be not activities authorised by this consent undertaken on Sundays and public holidays 	N/A	No setbacks	No setbacks	<p>The total area of topsoil stripping, excavation and cleanfilling activities shall not exceed 10ha at any time.</p>	<p>Conditions require Installation of an anemometer at a height of 6m to continuously record windspeed and direction.</p> <p>Quarry operations, except dust suppression activities, shall cease within 250m of 301 McLeans Island Road when:</p> <ol style="list-style-type: none"> The wind is greater than 7m/s (hourly average); The prevailing wind direction is from the NW to W; During dry weather conditions such that dust is being lifted from the site 	N/A
	CRC190584	<p>To use land to establish and operate a quarry extension, including:</p> <ul style="list-style-type: none"> Extraction of topsoil and aggregate; Stockpiling; and Rehabilitation of the site <p>360 McLeans Island Road, Christchurch</p>	<p>Original consent granted on 27 September 2016, change of conditions granted in 17 August 2018</p> <p>35 year duration</p>		N/A	No setbacks	20m setback from road boundary along western, southern and eastern site boundary.	No limit on allowable open area	N/A	No groundwater quality monitoring
	CRC190101	<p>To use land to undertake cleanfilling in excess of 5m below ground level</p> <p>360 McLeans Island Road, Christchurch</p>	<p>Granted 17 August 2018</p> <p>33 years duration</p>		N/A	No setbacks	No setbacks	No limit on allowable open area	N/A	No groundwater quality monitoring
	CCC RM92029369	McLeans Island Road	9 May 2016	0700-1800 M-S	110 HV Movements per day	3m bund along Western boundary, with bund along S boundary progressively	No excavation within 20 m of the bank of the water race Minimum 400m between processing an residential activity	92ha		

				No activity Sundays or public holidays except for dust mitigation		extended so always 200m east of the quarry pit.				
Isaac Construction Limited	CRC185177	To cleanfill a quarry site 413-443 McLeans Island Road, Christchurch	Granted 13 June 2018 3 year duration		N/A	No setbacks	No setbacks	No limit on allowable open area	N/A	No groundwater quality monitoring
Road Metals Company Limited	CRC153827	To excavate and deposit material over an unconfined or semi-confined aquifer 290 & 316 West Coast Road, Yaldhurst	Granted 17 June 2015 8 years duration	0700 to 1700 Monday to Friday 0700 to 1200 Saturdays There shall be no works on Sundays or Public Holidays	N/A	No setbacks	Excavation of aggregates shall occur within 10m of the northern, southern and eastern boundary of the site.	No limit on allowable open area	N/A	No groundwater quality monitoring
	CRC153828	To discharge contaminant associated with quarrying activities to air 290 & 316 West Coast Road, Yaldhurst	Granted 17 June 2013 8 years duration		N/A	No setbacks	No setbacks	Aggregate extraction shall commence in Stage 1 and move in an easterly direction until all aggregate authorised to be moved has been extracted.	<p>Conditions require installation and maintenance of equipment onsite, that accurately monitors and records windspeed and direction.</p> <p>Quarry operations shall cease, except for dust suppression activities within 250m of a dwelling when:</p> <ol style="list-style-type: none"> The wind is greater than 7m/s (hourly average); From the NW to NE; and During dry weather conditions such that dust is being lifted from site surfaces. <p>Quarry operations shall cease except for dust suppression activities within 250m of a dwelling located at 581 Buchannans Road, Yaldhurst, approximately 60m north of stage 2 when:</p> <ol style="list-style-type: none"> The wind is greater than 7 m /s (hourly average); From south to WSW; and During dry weather conditions <p>Quarrying operations shall cease except for dust suppression activities when:</p> <ol style="list-style-type: none"> The wind is greater than 10 m/s (hourly average); From the S to NE; and 	No groundwater quality monitoring

									c. During dry weather conditions such that dust is being lifted from site surfaces.	
CRC181273	To use land for excavation 581, 619, 635 Buchanans Road & 290-394 West Coast Road, Yaldhurst	Granted 22 May 2018 8 years duration	0730 and 1800 Monday to Friday; and 0730 to 1300 Saturday No activities, except for dust mitigation measures shall take place on Sundays or public holidays.	N/A	No setbacks	No setbacks	Conditions require excavation to be undertaken in stages, but no open area limits included in conditions.	N/A	No groundwater quality monitoring (conditions only allow deposition of clean soil)	
CRC181274	To discharge contaminants to air from quarrying activities 581, 619, 635 Buchanans Road & 290-394 West Coast Road, Yaldhurst	Granted 15 February 2019 8 years duration	Quarrying activities authorised under the consent shall be carried out between 0800 and 1800 Monday to Friday. No activities, except for dust mitigation measures shall take place on Sundays or public holidays.	N/A	No setbacks	No setbacks	Combined area for excavation and land being rehabilitated shall not exceed 4ha.	<p>Conditions require installation of anemometer at least 6m above natural ground level to continuously record wind speed and direction, rainfall and temperature.</p> <p>Conditions require installation and operation of a nephelometer for the purpose of monitoring PM10. The monitor shall be located between the bund and road frontage of either 581 or 619 Buchanans Road.</p> <p>The nephelometer shall be co-located with a reference standard PM10 monitor to provide calibration information for 24-hour average PM10 concentrations.</p> <p>Should the reference method or calibrated nephelometer 24-hour average PM10 levels reach or exceed 48 µ/m³, the consent holder shall advise CRC and the CLG.</p> <p>The consent holder shall make the compiled 24-hour average PM10 results available online at the end of every month.</p> <p>All quarrying activities shall cease when:</p> <ol style="list-style-type: none"> Windspeeds are greater than 7m/s (rolling 1-hour average); and Wind is blowing from the S to the WSW; and Weather conditions are dry (1mm of rain or less has fallen 	N/A	

									<p>during the past 24 hours or ground conditions are visibly dry).</p> <p>If quarrying ceases due to the above, they may resume once the rolling one-hour average windspeed fall back to or below 7m/s.</p> <p>All extraction, bund formation and dis-establishment activities shall cease when;</p> <ol style="list-style-type: none"> a. Windspeeds are greater than 5m/s; and b. Wind is from the S to WSW; and c. Weather conditions are dry (1mm of rain or less has fallen during the past 24 hours or ground conditions are visibly dry). <p>If bund formation or dis-establishment activities cease due to the above, they may resume once the rolling 1-hour average wind speed falls back to or below 5m/s.</p> <p>When wind is blowing from the S to WSW, and when continuous PM10 monitoring indicates the following trigger levels have been reached, the Consent Holder shall adopt the following response:</p> <ol style="list-style-type: none"> a. 1-hour average at 55 μm^3 or higher shall require immediate actions to investigate and reduce dust emissions; b. 1-hour average at 65 μm^3 shall require immediate cessation of all quarry activities and taking action to investigate and reduce site emissions. <p>If quarrying activities cease under (b) above, the consent holder may resume activities once the 1-hour average falls back to or below the level in (a).</p>	
--	--	--	--	--	--	--	--	--	--	--

									Where any trigger is exceeded, the consent holder shall provide the monitoring records and summary report to CRC and the CLG.	
	CCC RMA92027835 RMA92028575 (s127)	West Coast Road	20/5/2015 8 years	0700-1700: M-F 0700 – 1200 Sat No activities other than dust mitigation on Sundays or public holidays	None stated in conditions	3m bunds around E, N and S boundaries and W boundaries of dwellings to remain. Bund 2 m back from Cemetery boundary	10m setback between N, S & W boundary and quarry face.			
Winstone Aggregates – A division of Fletcher Concrete & Infrastructure	CRC160067	To change conditions 1 and 8 of CRC020238.1 – to discharge contaminants to land and into air from deposition of cleanfill	Original consent granted 27 March 2002, first change of conditions granted 15 July 2011, second change of conditions granted 13 April 2016 Expired 12 December 2016 now has S124 continuance		N/A	No setbacks	No setback	No limit on allowable open area	No dust monitoring	<p>Conditions require three monitoring bores shall be installed downgradient, one monitoring bore shall be installed upgradient.</p> <p>Representative samples of groundwater shall be taken three monthly, all samples shall be analysed to determine concentrations of contaminants and the values of parameters in accordance with Table 1. If results show that any samples exceed the Table 1 parameters, the consent holder shall obtain a second sample of groundwater from the bore and a sample from an upgradient bore and analyse against the parameters in Table 1.</p> <p>If the results of samples show that petroleum hydrocarbons or other organic compounds are present, then the consent holder must undertake further analysis to determine what organic compounds are present, or undertake a range of mitigation measures including:</p> <ol style="list-style-type: none"> Notification of CRC; Notification of all occupiers of all adjoining properties to the S and SE of the site; and Implementation of necessary measures to reduce the concentration of the contaminant in groundwater (e.g: cease activities, remove contaminant source) <p>Undertake validation samples and analyse in accordance with Table 2. If results show that concentrations do not exceed maximum values in Table 2, then further samples are taken at higher frequency.</p>

										If results of validation sampling show that Table 2 parameters are still exceeded, the consent holder shall implement further measures as set out above.
	CRC150531	To excavate more than 100 cubic metres of aggregate material and deposit more than 50 cubic metres of material into excavated land 199 Old West Coast Road, Yaldhurst	Granted 11 November 2014 6 year duration		N/A	No setbacks	Separation distances to site boundaries as follows: a. 10m from the N, E and part of W boundaries to excavation face; b. 4 m from southern boundary	No limit on allowable open area	N/A	No groundwater quality monitoring
	CRC150532	To discharge contaminants into air from extraction, handling, processing and conveying of bulk materials as part of quarrying activity 199 Old West Coast Road, Yaldhurst	Granted 10 February 2015 5 year duration	The hours of operation shall be only between 0800 and 1800 Monday to Friday No activities except dust mitigation can take place on weekends and public holidays.	N/A	No setbacks	The consent holder shall ensure that there is an excavation setback distance of: a. 10m to W boundary; b. 4m to S boundary; c. 30m to E and N site boundaries.	No limit on allowable open area.	Windspeed and direction shall be continuously monitored. If windspeed is measured as 7m/s or greater from N during dry conditions, then all operations on site shall cease.	N/A
	RMA92026416	199 Old West Coast Road 4ha	10 February 2015 5 years from commencement of excavation	0800 – 1800 Monday – Friday No activity other than dust suppression on weekends or public holidays. Operations shall cease when wind speed exceeds 7 m/s from 176 – 291 degree arc	12 truck movements per hour	3m bunds around boundaries.	Excavation limits” - 10m from W boundary - 4m from southern boundary 30m from E + S boundaries	4ha		
Frews Quarries Limited	CRC153917	To discharge contaminant into air from quarrying and cleanfilling activities 61 Savills Road, Yaldhurst	Granted 10 August 2016 35 year duration	Works shall be carried out only: a. Between 0700 and 1800 Monday to Friday; b. Between 0700 and 1300 on Saturdays; and c. There shall be no activities authorised by	N/A	No setbacks	No setbacks	Excavation shall be undertaken in six stages, sequential sub-stages shall not commence until all aggregate authorised to be	Conditions require installation of a meteorological instrument capable of monitoring wind speed and direction, rainfall and temperature. The anemometer shall be installed at a height of at least 6m above natural ground level. Results shall be available to the consent holder in real time and	N/A

				<p>this consent undertaken on Sundays or public holidays</p>				<p>removed from an active sub stage has been excavated.</p>	<p>logging system shall be able to send alerts to the consent holder via text message.</p> <p>Dust sources and control method shall be reviewed, and additional dust control methods implemented when:</p> <ul style="list-style-type: none"> a. The hourly average windspeeds exceed 5m/s; b. Wind is blowing towards an inhibited dwelling not on the site located within 250m of quarrying activities and potential sources of dust;and c. There are dry weather conditions such that dust is being lifted from site surfaces. <p>Potentially dusty activities taking place within 250m upwind of inhibited dwellings not onsite shall cease, except for dust mitigation activities, when wind gusts (two minute average or less) exceed 10m/s during two consecutive ten minute periods during dry weather conditions such that dust is being lifted from the site. Such activities include:</p> <ul style="list-style-type: none"> a. Stripping of topsoil; b. Formation of bunds; c. Formation of soil stockpiles; d. Spreading of topsoil. <p>Potentially dusty activities shall recommence when wind gusts (two minute average or less) are less than 7.5 m/s during the previous two consecutive ten minute periods.</p> <p>The consent holder shall install and operate an instrument capable of continuously monitoring and recording TSP prior to any stripping of topsoil or excavation taking place within 250m of any inhibited dwelling not on the site</p> <p>TSP monitoring shall be undertaken continuously at a location that provides a representative sample of TSP</p>
--	--	--	--	--	--	--	--	---	--

								<p>concentrations at the boundary of the site down wind of the quarry immediately adjacent to the boundary with 25 Savills Road.</p> <p>Quarry operations and dust control measures undertaken within 250m of an inhabited dwelling not on the site shall be reviewed and additional dust control measures implemented when TSP concentrations recorded by the mobile plan exceed:</p> <ul style="list-style-type: none"> a. 200µ/m³ (1-hour average); or b. 80µ/m³ (24-hour average); <p>All site operations shall cease, except for dust mitigation measures when TSP concentrations exceed:</p> <ul style="list-style-type: none"> a. 220µ/m³ (1-hour average); b. 120µ/m³ (24-hour average). <p>Site operations within 250m of an inhabited dwelling may recommence with additional dust monitoring measures when TSP concentrations measured over two consecutive 10 minute periods are less than 200µ/m³ (1-hour average).</p>	
CRC153916	<p>To use land to excavate gravel from a quarry and deposit cleanfill</p> <p>61 Savills Road, Yaldhurst</p>		N/A	No setbacks	No setbacks		N/A	<p>Representative samples of groundwater shall be taken at six monthly intervals from three downgradient bores and analysed for contaminants shown in Table 1.</p> <p>If samples show an exceedance of any trigger concentrations in Table 1, the consent holder shall obtain a second sample of groundwater from both up and downgradient bores.</p> <p>If the results of analysis of groundwater in downgradient wells exceeds the values specified in Table 2 then consent holder shall immediately:</p> <ul style="list-style-type: none"> a. Notify CRC; b. Notify the occupiers of all adjoining properties to the S and SE of the cleanfill site; and 	

										<p>c. Implement all necessary measures to reduce the concentration of the contaminant in groundwater.</p> <p>Following the implementation of any measures above, a validation sample shall be taken from the same bore as the previous sample was taken from. The validation sample shall be analysed to determine the concentration of any contaminants for which the the concentrations in</p>
	<p>CCC RMA92027872</p> <p>(confirmed in EC Decision)</p>	<p>61 Savills Road, Yaldhurst</p>	<p>10/8/2016</p> <p>35 years, with excavation ceasing 25 years after date of commencement</p>	<p>0700 – 1800 M – F</p> <p>0700 – 1300 Sat</p> <p>No activity on Sunday/Public Holiday unless to address an adverse effect.</p> <p>Crushing may only be undertaken on site for as long as excavation occurs</p>	<p>None stated in conditions, but 300 – 400 HVM per day mentioned in decision text.</p>	<p>3m bunds on E & S boundaries and central location, with a 3m bund established on W & S boundaries prior to Stage 2.</p>	<p>20m back from W, S & E boundaries, and 10m from N boundary.</p> <p>20m from Tiptree Cottage boundary, once shown heritage values can withstand proximity, otherwise 70m.</p>			
<p>Harewood Gravels Company Limited</p>	<p>CRC157162</p> <p>Note – No active CCC land use consents for this site.</p>	<p>To excavate land and deposit material over an unconfined or semi-confined aquifer and to store and use hazardous substances</p> <p>21 Conservators Road, McLeans Island, Christchurch</p>	<p>Granted 28 November 2016</p> <p>30 year duration</p>		<p>N/A</p>	<p>No setbacks</p>	<p>Excavation and deposition shall be setback 50m from property boundaries.</p>	<p>No limit on allowable open area.</p>	<p>N/A</p>	<p>Groundwater upgradient and downgradient shall be field tested each month for pH, DO, temperature and electrical conductivity. If field sampling shows there is an exceedance outside of a “normal” range then additional groundwater sampling shall be undertaken.</p> <p>Groundwater monitoring shall also be undertaken twice per year during the months of June to September and within 48 hours of 10mm rainfall as recorded at Christchurch Airport.</p> <p>Groundwater samples shall be compared to trigger levels. If exceedance is identified (being a contaminant in an upgradient bore exceeds downgradient concentration or if upgradient concentration already exceeds trigger levels then downgradient bore must exceed by 10%), then undertake a second round of sampling.</p> <p>If parameter continues to exceed then, consent holder must engage a suitably qualified and experienced person to propose mitigation measures.</p>
	<p>CRC157163</p>	<p>To discharge contaminants into air</p>			<p>N/A</p>	<p>No setbacks</p>	<p>No setbacks.</p>	<p>Conditions state 'sub</p>	<p>Conditions require an anemometer to be installed at</p>	<p>N/A</p>

		21 Conservators Road, McLeans Island, Christchurch						<p>area' but no limit included in consent conditions.</p> <p>least 6m above natural ground level and continuously record wind speed, direction and rainfall.</p> <p>All dust generating activities shall cease if:</p> <ol style="list-style-type: none"> The windspeed is greater than 7 km/s (hourly average) during dry weather conditions; and When the wind is blowing from 130 degrees to 320 degrees N; and Dust generating activities are occurring within 250m of an inhabited dwelling, other than a dwelling located on the site. <p>TSP shall be measured at the site. Two monitors shall be located between the quarried area generating dust and two nearest dwellings beyond property boundary.</p> <p>Quarry operations undertaken within 250m of an inhabited dwelling shall be reviewed and additional dust control measures implemented when TSP concentrations recorded exceed:</p> <ol style="list-style-type: none"> 160 μm^3 (1-hour average) or 60 μm^3 (24-hour average). <p>Dust generating activities (except dust mitigation measures) being undertaken within 250m of an inhabited dwelling shall cease, except for dust mitigation measures, when TSP concentrations exceed:</p> <ol style="list-style-type: none"> 200 μm^3 (1-hour average); or 80 μm^3 (24-hour average). <p>Site operations within 250 metres of an inhabited dwelling may recommence with additional dust mitigation measures when TSP concentration measured over two consecutive ten minute</p>
--	--	--	--	--	--	--	--	---

									periods are less than 200µ/m ³ (1-hour average).	
SOL Quarries Limited	CRC184073	To excavate and deposit material over an unconfined or semi-confined aquifer 81 Conservators Road, Christchurch	Granted 18 June 2018 13 year duration	Works shall only occur between the hours of 0630 and 1800 Monday to Friday and 0700 to 1200 on Saturdays; No works shall occur on Sundays or public holidays	N/A	No setbacks.	The quarry area shall be setback a minimum of 20 metres from undisturbed land along all boundaries of the site.	The quarry operation areas including stockpile areas, areas stripped in preparation for excavation and areas under rehabilitation shall not exceed 9ha.	N/A	Groundwater samples shall be taken from one upgradient well and two downgradient wells once per month and analysed for contaminants in Table 1. If the results of sampling show that any of the contaminants exceed concentrations in Table 1, the consent holder shall undertake a second round of sampling. If the results of the second round of sampling shows that the concentration of any contaminant exceeds the value in Table 2, the consent holder shall notify CRC, inform downgradient well owners within 1km and undertake an investigation to determine the cause of the breach.
	CRC184072	To discharge contaminants into air. 81 Conservators Road, Christchurch				No setbacks	No setbacks	No limit on allowable open area.	An anemometer shall be installed at a height of 10m above ground level. When windspeeds exceed 5m/s (1-hour average) the applicant shall begin watering down all unconsolidated surfaces.	N/A
	CCC RMA92028479 RMA2018/505 (s127) RMA2018/2777 (s128)	81 Conservators Road	28 Jan 2016 15 years	0630 – 1800 (M- F) 0630 – 1200 Sat No processing prior to 0700. No other activities except dust mitigation on Sun/Pub Holidays	300 HV movements per day 30 light vehicle movements per day			Excavation at least 20m from boundary	25ha	
Taggart Earthmoving Limited Note Land use consents not included as not for quarrying activity.	CRC185783	To use land for the deposition of material 117 Miners Road, Yaldhurst	Granted 14 August 2018 15 year duration			No setbacks	No setbacks	No limit on allowable open area.	N/A	
	CRC185245	To discharge contaminants to land 117 Miners Road, Yaldhurst				No setbacks	No setbacks	No limit on allowable open area.		Representative samples of groundwater shall be taken at three monthly intervals for the first 12 months of the exercise of resource consent from one upgradient and one downgradient well.

										<p>Samples shall be analysed for the contaminants shown in Table 1</p> <p>Representative samples of groundwater shall be taken at six-monthly intervals from one down gradient bore and analysed for the contaminants in Table 2.</p> <p>If the results show any concentrations of contaminants exceed trigger concentrations in Table 2, the consent holder shall:</p> <ol style="list-style-type: none"> Obtain a second sample from all bores; and Analyse samples for the parameters and trigger values in Table 1. <p>If samples from downgradient bores still exceed the values specified in Table 1, the Consent Holder shall:</p> <ol style="list-style-type: none"> Notify CRC; Prepare a report detailing the likely cause of the exceedance; and Notify all occupiers of adjoining properties to the S and SE.
Road Metals Company Limited	CRC153830	To discharge contaminants to air. 350 West Coast Road, Yaldhurst.	Granted 29 June 2015 8 year duration	<p>There shall be no more than one loader extracting at the working face at any one time.</p> <p>There shall be no more than two hoppers servicing the conveyors used to convey the aggregates to the processing plant.</p> <p>The hoppers shall be located within the Rural Quarry Zone and not on the Site.</p> <p>There shall be no stockpiling of aggregates on the Site other than for the servicing of the hoppers.</p> <p>There shall be no processing of aggregates, including crushing/washing/s</p>	No setbacks	No setbacks	No limit on allowable open area	No dust monitoring.		

					creening on the Site.					
Harewood Gravels Company Ltd	CRC120340	The use of land to deposit cleanfill onto and into land. 535 MacLeans Island Road	Granted 18 June 2012 33-year duration			No setbacks	No setbacks	No limit on allowable open area		No groundwater quality monitoring
	CCC RMA9201477 RMA92018625 (s127)	535 McLeans Island Road	35 years	0700-1800 M-F 0700 – 1200 Sat No operations on Sundays or public holidays Cease bund construction, topsoil removal and rehabilitation shall cease when wind exceeds 7m/s and there is less than 0.1mm of rain per day Processing to occur 100m from boundaries	None stated in conditions	3m bunds on all boundaries, except for access and stopbank. Variation enabled 3 bund on E boundary, with bund to be extended along S & W boundary prior to excavation.	Excavation restricted to 20m from site boundaries. Variation limited excavation within 50m unless the bund had been constructed.	45ha		
Scion Limited Note Land use consents not included as not for quarrying activity.	CRC132194	Discharge to air from clean fill site. Templeton	Granted 29 January 2013 20 year duration	Works shall occur between 6am-6pm Monday – Friday		No setbacks	No setbacks	No limit on allowable open area	No dust monitoring	
Selwyn Quarries Limited	CRC145182	Discharge contaminants into air. Selwyn Road, Broadfield.	Granted 30 May 2014 31 year duration	Crushing and screening of aggregate and screening of soil material shall only be carried out using mobile plant and shall only be undertaken between the 0800 to 1800 hours Monday to Friday and excluding public holidays.	Truck movements on the site shall be limited to between 0600- and 1800-hours Monday to Friday and between 0700- and 1300-hours Saturday and excluding any public holidays.	No setbacks	No setbacks	No limit on allowable open area	Dust management plan. Anemometer is installed least 20 metres from any bund. Crushing, screening, stripping operations, soil handling operations, road sweeping, and cleanfill deposition from natural ground level that occurs within 200 metres of the downwind site boundary shall cease when wind speeds exceed 10 metres per second (36 kilometres per hour);	
Selwyn Quarries Limited	CRC145183	To expand the area of land used for quarrying activities Selwyn Road, Broadfield	Granted 30 May 2014 31 year duration	Crushing and screening of aggregate and screening of soil material shall only be carried out using mobile plant and shall only be undertaken	Truck movements on the site shall be limited to between 0600- and 1800-hours Monday to	No setbacks	No setbacks	No limit on allowable open area		No groundwater quality monitoring

				between the 0800 to 1800 hours Monday to Friday and excluding public holidays.	Friday and between 0700- and 1300-hours Saturday and excluding any public holidays.					
	SDC RM135015 SDC RM145099	Wheatsheaf Quarry	14/2/2013 and 16/5/2014 respectively	Truck Movements 0600-1800 M-F 0700-1300. Crusher 0800-1800M-F excluding public holidays 0800 -1300 Saturdays excluding public holidays. Mobile crusher 0800 – 1800 M-F 0800 – 1300 Saturdays and limited to specific areas. Loader shall not operate within 80m of SW boundary of adjacent property prior to 0730. Quarry shall be closed prior to 0700 and after 1800	Maximum of 20 truck movements prior to 0700 M-F	2m bund around perimeter and around boundary of expanded quarry area within 2 months of commencement				
Road Metals	RC105334, amended by RM145436	Quarry, Wards Road, Burnham	3 May 2013	The hours of operation shall not exceed 0630 – 1800 Monday to Friday and 0630-1200 1300 Saturday subject to the following: Except for concrete batching the site shall not be open to the public prior to 0700 or after 1800 hours Monday to Friday and prior to 0700 or after 1300 hours on a Saturday. No outwards deliveries of products other than concrete may leave the quarry prior to 0700. Gravel extraction and crushing and processing	Heavy traffic volumes shall not exceed (a) a maximum of 400 heavy vehicle movements per operating day and (b) 340 heavy vehicle movements per operating day calculated over a 3 month rolling average. The 3 month rolling average shall be calculated by dividing the total heavy vehicle movements over the three month period divided by	(a) Any crushing equipment operated from 0630 to 0730 hours shall be located at least 300 metres from the boundary of any site not owned by the consent holder. (b) Any extraction of gravel between the hours of 0630-0730 shall be at least 70 metres from the boundary of any site not owned by the consent holder.				

				<p>of aggregate shall not commence prior to 0730 and crushing and processing of aggregate shall not occur on a Saturday.</p> <p>Concrete batching may commence at 0500 hours on up to 10 days per calendar year and in addition may commence at 0300 hours up to 5 days per calendar year.</p> <p>The consent holder shall keep records of the number of concrete truck movements into and out of the site prior to 0700 hours and shall provide these to the Council on Request.</p>	<p>the number of operating days within that period. The consent holder shall keep a record of these volumes which shall be provided to the Council on request.</p>						
CRC150795	To change conditions of land use consent CRC110671	27 May 2013 35 years	<p>The hours of operation at the site shall not exceed 0600 to 1900 Monday to Friday and 0600 to 1300 Saturday subject to the following:</p> <ol style="list-style-type: none"> a. The site shall not be open to the public prior to 0630; b. Gravel extraction and crushing and processing of aggregate may occur from 0600 to 1900 Monday to Friday and from 0600 to 1300 Saturday c. Concrete batching may occur from 0500 to 1900 Monday to Friday and 0500 to 1300 Saturday, except this may commence at 0300 hours up to 5 days per year. d. There shall be no operation on Sundays or public holidays 		No excavation of aggregates shall occur within 15m of all site boundaries.	No setbacks	Conditions discuss stages, but no limit on allowable open area.	N/A	No groundwater quality monitoring.		

	CRC110672	To discharge contaminants to land from the Wards Road Quarry										<p>The consent holder shall install 3 monitoring wells and shall have two installed for each area (Areas 1 to 6), prior to the deposition of any cleanfill.</p> <p>Prior to the deposition of cleanfill the consent holder shall undertake baseline sampling for a period of 12 months.</p> <p>The consent holder shall monitor groundwater quality in accordance with condition (11) from the well head of three domestic water supply wells less than 60m deep which have secure well heads, are located in a general SE direction from the area where cleanfill is deposited and within 500m of the quarry boundary.</p> <p>Samples shall be taken between the months of June and August and again between the months of December to February and analyse for a range of contaminant parameters. Should any concentrations or values be exceeded in the downgradient wells and be a significant change from the concentrations in the up-gradient well and the concentrations measured in any down gradient well prior to the placement of cleanfill, the consent holder shall:</p> <ol style="list-style-type: none"> a. Notify CRC; b. Undertake all practicable measures to determine exceedances are attributable to cleanfill operations; c. Complete an assessment of the potential adverse effect on groundwater quality associated with the exceedance including those domestic wells within 500m downgradient of the site. <p>Note: For the purposes of the conditions a "significant change" shall mean a change of more than 15 percent for trigger levels that have a value greater than 3 milligrams per litre, or 100 percent for trigger values that have a value less than or equal to 3 milligrams per litre</p>
--	-----------	--	--	--	--	--	--	--	--	--	--	---

	CRC110675	To discharge contaminants into air				<p>Processed aggregate stockpiles shall be setback 130m</p> <p>Mobile processing plan shall be setback 130m</p> <p>Permanent aggregate processing plan shall be setback 200m</p>		<p>Stripping of overburden and movement of topsoil shall be staged such that the area of exposed soil is limited to no more than 1 ha.</p> <p>The total area of land open to concrete batching, quarrying and associated activities shall not exceed 9.4ha</p> <p>With no more than 5ha used for stockpiles, processing and cement batching</p>	<p>At all times during exercise of this consent, wind speed and wind direction shall be measured by an anemometer established on the site.</p> <p>The consent holder shall operate and record data from at least two ambient total suspended particulate (TSP) monitoring stations. The TSP monitoring stations shall commence operating at least one month prior to the commencement of site preparation works and continue operation for a subsequent period of at least three years.</p> <p>For the first two years of operation the TSP monitoring station shall be located:</p> <p>near the north-eastern corner of the site and the entrance to the Craw property on Wards Road.</p> <p>to the southeast of the quarry and processing area on Kerrs Road downwind of the processing plant and stockpiles within 400 metres of the intersection of Kerrs Road and Wards Road.</p> <p>The TSP monitoring shall be undertaken:</p> <p>with a continuous monitoring instrument approved in writing by the Canterbury Regional Council; and</p> <p>be capable of providing data that can be compared against 1 hour and 24 hour guidelines.</p> <p>After the monitoring has occurred for a continuous three year period the consent holder may apply to the Canterbury Regional Council for a variation to Condition 31 in order to reduce the monitoring.</p> <p>If the Canterbury Regional Council receives and validates more than six dust complaints relating to separate events within a 12 month period, it may seek to review the monitoring requirements set out in Conditions 30 and 31. For the purposes of this condition</p>		
--	-----------	------------------------------------	--	--	--	--	--	---	--	--	--

								<p>the term "validates" means that a person acting on behalf of the Canterbury Regional Council considers that the effects of the discharge from the consent holder's site are offensive or objectionable.</p> <p>The following activities when located within 200 metres of the downwind site boundary shall not occur when the gust wind speed (two minute average or less) measured at the site in accordance with Condition 30 exceeds 10 metres per second (36 kilometres per hour) during the previous two consecutive 10 minute periods:</p> <p>Stripping of topsoil or overburden;</p> <p>Formation of earth bunds and stockpiles using soil and overburden material;</p> <p>Movement or working of soil for the purpose of site rehabilitation;</p> <p>Removal and spreading of silt material from the settling ponds; and</p> <p>Gravel crushing and screening.</p> <p>The above works may recommence when wind gust speeds (two minute average or less) are less than 7.5 metres per second during the previous two consecutive 10 minute periods.</p> <p>The consent holder shall ensure that at all times dust concentrations created by the consented activities leaving the site are less than the trigger level of 100 µg/m³ as a 24 hour average.</p> <p>If TSP concentrations measured in accordance with condition 31 exceed 220 µg/m³ as a 1 hour average at any time the consent holder shall implement appropriate mitigation, up to and including ceasing all operations on the site apart from dust control.</p>	
--	--	--	--	--	--	--	--	--	--