

IN THE MATTER OF **The Resource Management Act 1991**

AND **Applications to the Canterbury Regional Council** by SOL Quarries
Limited: ref: CRC 193563, CRC 193564 and CRC 193773.

AND **Application to Christchurch City Council** for land use consent at 93-
133 Conservators Road: ref: RMA 2019/373

STATEMENT OF SIMON HOWARD APPERLEY ON BEHALF OF SOL QUARRIES LIMITED

Dated 17 December 2020

Prudence Steven QC
Canterbury Chambers
PO Box 9344
Christchurch 8149

Telephone: (03) 343 9834
Email: pru@prusteven.co.nz

- 1 My name is **Simon Howard Apperley** and I am the General Manager of the SOL Group of companies. In that capacity I have a detailed understanding and input with respect to the operation of the existing SOL Quarry at Conservators Road.
- 2 In addition to the statement I made at the hearing, I wish to further clarify and outline the practical side of daily quarry management and to give assurance to the Commissioners and residents who spoke at the hearing (in particular) that the company takes seriously our environmental and neighbourly obligations in the operation of our activities on all of the SOL sites.
- 3 The company is committed to employing industry best practice measures (or higher) on all SOL sites, including the quarry at Conservators Road.
- 4 We have heard the residents' concerns and wish to formally record our acknowledgement of what has been said about the operation of the quarry in the past. We have decided to take steps to further reduce the potential for fugitive dust, including fully sealing the light vehicle entrance and extending the sealing of the Haul Road further into the site.
- 5 As to the daily operations on site, the quarry is managed by an onsite Quarry Manager, who is on-site daily. He is qualified with a NZQA – B Grade Quarry Licence and Certificate of Competence.
- 6 Employed by SOL, it is the job of the Quarry Manager to oversee all aspects of the quarry including air quality (dust), traffic management, Health & Safety, environmental compliance, the cleanfill operation and the daily crushing and screening operations.
- 7 He is supported by the Crushing Manager, the Health & Safety Manager, an environmental compliance consultant and myself on a daily basis.

Dust Mitigation

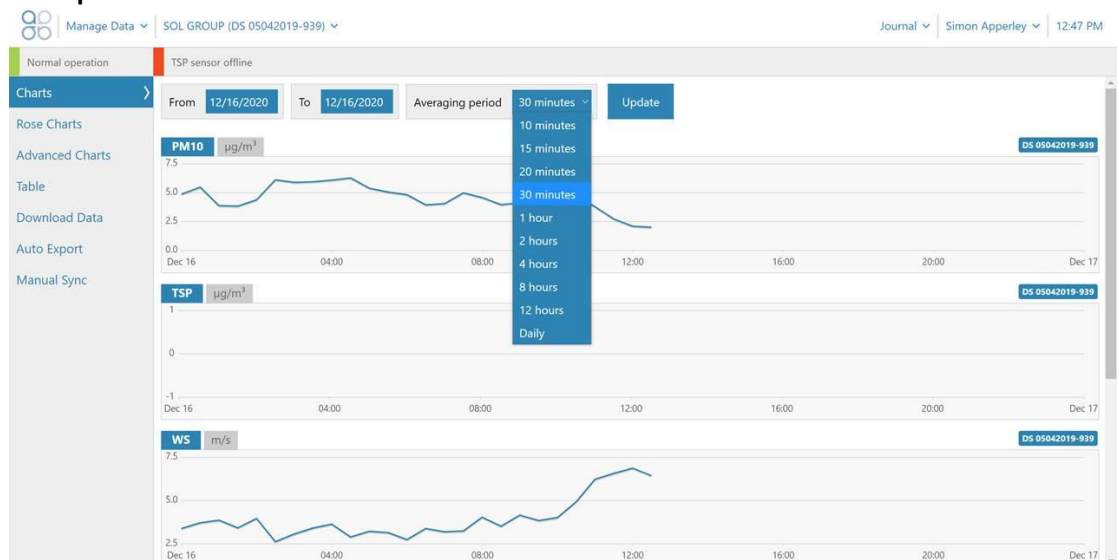
- 8 Currently SOL operates a Harvest Wind Monitor System and an Aeroqual Dust Monitor with a wind speed and direction monitor. Both of these instruments are industry standard.
- 9 Both instruments operate on a 'live' basis allowing the user to log in and see live data along with being able to set triggers for automated text and email alerts. These alerts can be set based on wind speed triggers or PM10 trigger or other factors.
- 10 As a result of the recent outage, we have taken steps to improve the system. We have introduced alerts related to failure of the battery, power, sensors or transmission of data.

These alerts are currently set to transmit to 4 staff, including myself. In addition, Canterbury Regional Council has direct live access to the Aeroqual Dust Monitor.

How would the above practically work based on the proposed new consent?

- 11 Water would be applied every morning at 6:00am, triggered by a timer, if the day was dry – no rain.
- 12 From 7:00am the wind trigger would take over monitoring and a 'per metre a second' trigger speed would be set with K-lines automatically coming on if wind speed levels reached a trigger point.
- 13 This would then be checked via the PM₁₀ dust monitor to ensure desired end results were achieved.
- 14 Outside normal operation hours the automatic wind based trigger would be active. If for whatever reason we wanted to manually turn on the dust suppression system outside of the normal quarry hours we can remotely turn on the K-lines via a mobile phone app or computer.
- 15 I have included below, for reference, Aeroqual and Harvest Wind data to show the level of detail we get, along with alerts set up.
- 16 Furthermore, SOL has proposed to seal the current light vehicle access and further sealing from the weighbridge area to the proposed crushing and screening area where trucks would be loaded. This would be completed during the "enabling works" associated with the new consent.

Aeroqual



Configure SOL GROUP (DS 05042019-939) Journal Simon Apperley 12:54 PM

Normal operation TSP sensor offline

Settings

Alerts

Sensor List

Data Filters

About

Instrument offline

Email address corey@outbackcommuni SMS +64272775909 Language English

Remove

Instrument offline

Email address simon@solgroup.co.nz SMS 021755410 Language English

Remove

Set point exceeded

Battery Voltage Battery Voltage(V) 30 minutes Set point 25 Reset point 0 Triggering on Rising edge

Disable this alert when service mode is activated or a calibration is being performed

Email address simon@solgroup.co.nz SMS Language English

Remove

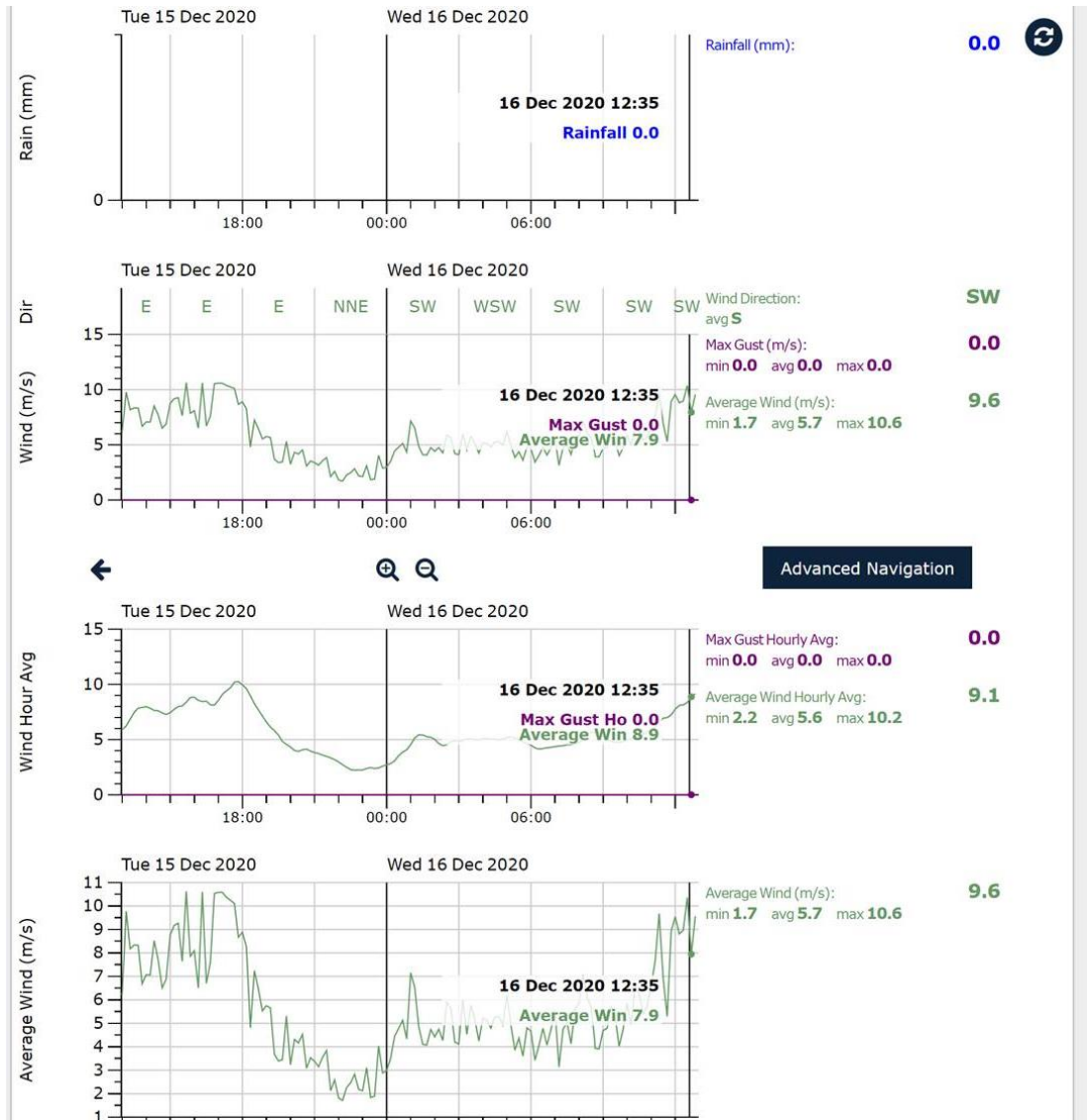
Instrument offline

Email address heather@solgroup.co.nz SMS 021434025 Language English

Remove

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Harvest Wind



Basic Alarms

Only temperature based alarms are editable below. You can modify the alarm level of the alarms as you like, however the level you set must be suitable for the type of alarm. Frost alarms must have a value that is less than the reset level, and heat alarms must have a value that is greater than the reset level.

Private Alarms

Name	Traces	Alarms								
Wind5	Name	Latest @	Message	Custom	Level	Reset	Period	Always	Rosters	State
	Average Wind Hourly Avg	9.1	SOL - Weather Station: Trace Wind > 5m/s use water on unconsolidated surfaces.		>= 5	<= 3.5	0	✓	N/A	🔴
Wind10	Name	Latest @	Message	Custom	Level	Reset	Period	Always	Rosters	State
	Average Wind Hourly Avg	9.1	SOL - Weather Station: Trace Wind > 10 m/s ☐ Stop Works		>= 10	<= 7	0	✓	N/A	🟢

Conditional Alarms

Save Changes

Private Alarms

Name	Groups						State
Wind speed below 8 m/s ☐ (&v1) ok to start works a	Set Condition Type	Condition	Delay	Period	Whole	Repeat	🟢
	Trace Reference	Average Wind Hourly Avg	0	0			
	Trace -> Value	Average Wind Hourly Avg < 8.000000	0	30	✓		
	Set Action Type	Message	Roster				
	Send Message	Wind speed below 8 m/s ☐ ((&v1) ok to start works again.	Default				
	Reset Condition Type	Condition	Delay	Period	Whole	Repeat	
	Trace -> Value	Average Wind Hourly Avg > 9.000000	0	0			
Wind5	Set Condition Type	Condition	Delay	Period	Whole	Repeat	🔴
	Trace -> Value	Average Wind Hourly Avg >= 5	0	0			
	Set Action Type	Message	Roster				
	Send Message	Wind > 5m/s use water on unconsolidated surfaces.	Default M T W T F S S 06:30 - 18:30				
	Reset Condition Type	Condition	Delay	Period	Whole	Repeat	
		Trace -> Value	Average Wind Hourly Avg <= 3.5	0	0		
Wind10	Set Condition Type	Condition	Delay	Period	Whole	Repeat	🟢
	Trace -> Value	Average Wind Hourly Avg >= 10	0	0			
	Set Action Type	Message	Roster				
	Send Message	Wind > 10 m/s ☐ Stop Works	Default				

Rehabilitation

- 17 I would also like to clarify the rehabilitation of the quarry to natural ground levels referred to by Ms Jennifer Dray for Christchurch City Council. As cleanfill volumes are market dependant it could potentially be unrealistic to expect this whole site to be brought up to natural ground level.
- 18 However, it is our intention to rehabilitate and contour the site so that the finished landform mimics the subtle landforms of this locality, as Ms Smetham describes in her evidence on behalf of SOL.

Fuel Storage

- 19 I will clarify the issue of fuel storage at the SOL Quarry raised by Mr Emmerson.
- 20 SOL Quarries Limited holds a Certificate of Compliance relating to a 10,000 litre above ground diesel fuel tank (CRC155100). The 10,000 litre above ground diesel fuel tank referred to by Mr Emmerson complies with the requirements of the Hazardous Substances and New Organisms Act 1996 (HNSO Act). Specifically, I would advise that SOL has:

- 20.1 An Emergency Response Plan (ERP) with copies held in the Quarry Office and the Quarry Manager's Office;
- 20.2 Material Safety Data Sheets (MSDS), held in the same locations, less than 10 minutes from the fuel storage;
- 20.3 An integrity test certificate.
- 21 I would note that the storage of diesel does not require a Location Test Certificate.
- 22 Mr Emmerson raised the issue of secondary containment. I have raised the issue with Southfuels, the owner and supplier of the above ground fuel tanks. Southfuels has confirmed the above ground fuel tank is not double skinned. Accordingly, SOL has constructed a lined containment bund in accordance with the HSNO requirements.
- 23 With respect to the mobile diesel tow tank trailers, I would advise that in preparing the application for resource consent associated with the SOL Quarry in 2014 – 2015 we were advised that a 500-litre diesel tow tank trailer would be appropriate.
- 24 However, Southroads since confirmed that a 500-litre diesel tow tank trailer meeting the consent specifications was not available for use; hence Southfuels supplied the 2,000-litre and 1,300-litre diesel tow tank trailers.
- 25 I can confirm that the diesel tow tank trailers meet the HSNO requirements for mobile tank trailers, have been pressure tested and have a Tank Test Certificate. The diesel tow tank trailers are stored inside the covered workshop on a concrete pad.
- 26 I am currently taking advice regarding the resource consent condition (CRC184073; 45) related to the use of a 500-litre diesel tow tank trailer. However, the issue has been addressed during Compliance Audits with CRC and CCC since the quarry commenced operations in 2016, and the SOL operations have been found to be appropriate.
- 27 I also note that there has been no suggestion that the refuelling procedures are inappropriate (i.e. use of spill pads, access to spill kits, MSDS documentation and staff training).



Simon Apperley