

RESOURCE CONSENT*Pursuant to Section 137 of the Resource Management Act 1991***The Canterbury Regional Council (known as Environment Canterbury)****TRANSFERS TO:** Blackstone Quarries Limited**A DISCHARGE PERMIT** to discharge contaminants onto land and into air from the deposition of hardfill material.**DATE COMMENCED:** 6 March 2002**DATE TRANSFERRED:** 9 January 2007**EXPIRY DATE:** 4 March 2017**LOCATION:** 325 Old West Coast Road, Yaldhurst**SUBJECT TO THE FOLLOWING CONDITIONS:**

- 1) The discharge shall only occur at the quarry site at the corner of Old West Coast and Miners Roads, Yaldhurst, at or about map reference NZMS260 M36:652-445, as shown on the attached plan CRC011717.
- 2) Material deposited shall be only uncontaminated soil, rock, gravel, sand, silt and clay, bricks, concrete, ceramics, weathered dry asphalt, tiles, road metal, untreated wood comprising less than one percent of any load by volume, vegetative material comprising less than five percent of any load by volume, and metals such as reinforcing rods that cannot be reasonably separated from demolition materials listed above. All other material shall be excluded from the site, including but not limited to: asbestos, wet asphalt, cables, carpet, containers, contaminated soils, dredging spoil, electrical insulation, 'Formica' board, glass, glass fibres, gypsum, hardboard, fibreboard, particle boards, chip boards, plywood, laminated wood, treated wood, hazardous materials, household waste, medical waste, radioactive waste, separated metals, wet paint, wet or dry lead-based paint, plastics, tar and tyres.
- 3) Each person delivering waste to the hardfill site shall sign a written declaration or formal agreement with the consent holder that the deposited material meets the acceptance criteria specified in Condition 2. These records shall be held at the hardfill site and shall be provided to the Canterbury Regional Council on request.
- 4) The delivery of material onto the site shall be supervised by the consent holder or their representative at all times. Loads shall be inspected randomly at the despatch office and all loads shall be inspected by the operator burying fill material. All loads shall be deposited in front of the tip face to enable inspection of loads before filling occurs.
- 5) A record of all material deposited at the site shall be kept. This record shall include the name of the person and company that delivered the material to the site, the date of deposition, the source of the material, a description of the type of material and the approximate quantity of material. This record shall be provided to the Canterbury Regional Council on request and shall be held for at least five years after waste deposition has ceased at the site.
- 6) The site shall be surrounded by fencing and lockable gates to prevent as far as practicable unauthorised deposition of material.
- 7) All entrances to the site shall be securely locked when the site is not supervised.

Environment Canterbury is the promotional name of the Canterbury Regional Council

- 8) Warning notices that can be read at a distance of five metres shall be erected and maintained at all entrances to the site. The notices shall state:
 - (a) groundwater in this area is vulnerable to contamination and is a source of drinking water;
 - (b) all persons depositing waste at this site must have signed a declaration that only cleanfill material is delivered according to consent conditions. Disposal of waste by any other person is prohibited.
- 9) Material shall not be deposited below a level one metre above the highest recorded groundwater level on the site.
- 10) Surface water drainage in the areas adjacent to the sites where hardfill is being deposited shall be arranged so that surface water is directed away from these sites.
- 11) Prior to this consent being exercised, two monitoring bores of minimum diameter 50mm shall be installed on the down-gradient, in relation to the direction of groundwater flow, side of the hardfill site as generally indicated on the attached plan CRC011717. One monitoring bore of minimum diameter 50mm shall be installed on the up-gradient, in relation to the direction of groundwater flow, side of the hardfill site as generally indicated on the attached plan CRC011717. The bores shall enter the aquifer immediately underlying the site, and shall be screened over an interval of 0.5m above the highest recorded groundwater level at the site and 0.5m below the lowest recorded groundwater level at the site. The bores shall be made accessible to the Canterbury Regional Council at all times for the purpose of groundwater sampling.
- 12)
 - (a) From the date of commencement of this consent representative samples of groundwater shall be taken three monthly from the two down-gradient bores specified in Condition 11.
 - (b) All samples shall be taken by a suitably qualified and experienced person using methods approved by the American Public Health Association (APHA) or the American Society for the Testing of Materials (ASTM), for such sampling.
- 13)
 - (a) All samples taken in accordance with Condition 12 shall be analysed to determine concentrations of contaminants and the values of parameters listed in Table 1, attached to this consent.
 - (b) Every fourth sample taken from each down-gradient bore in accordance with Condition 12 shall be analysed for volatile organic compounds and semi-volatile organic compounds, using methods approved by the United States Environmental Protection Agency or the American Public Health Association for the analysis of such compounds.
 - (c) All samples taken in accordance with Condition 14 shall be analysed to determine concentrations of contaminants and the values of parameters listed in Table 2, attached to this consent.
 - (d) The laboratory carrying out analyses for the purpose of this consent shall be accredited to International Organisation for Standardisation/International Electrotechnical Commission (ISO/IEC) Guide 25: (1990) or equivalent defined by an accreditation body recognised as operating to ISO/IEC Guide 58.
 - (e) The results of these analyses, the name of the person taking the samples and the date and time of sampling shall be provided to the Canterbury Regional Council within 10 working days of the receipt of the analytical results by the consent holder.
- 14) If the results of analysis of samples taken in accordance with Condition 12 show that any of the concentrations of contaminants or values of parameters determined exceed those given in Table 1, the consent holder shall:
 - (a) obtain a second sample of groundwater from the bores sampled in accordance with Condition 12, and obtain a sample of groundwater from the up-gradient bore specified in Condition 11; and
 - (b) have these samples analysed in accordance with Condition 13.

Environment Canterbury is the promotional name of the Canterbury Regional Council

- 15) If the results of analysis of samples taken in accordance with Condition 12 show that petroleum hydrocarbons or other organic compounds are present, the consent holder shall:
- (i) Undertake further analysis of the sample to determine what organic compounds are present; and
 - (ii) Undertake the measures set out in Condition 16(a)(i) to (iii);
- 16) (a) If the results of analysis of groundwater in down-gradient bores sampled in accordance with Condition 14, or part (e) of this condition show that the concentration of any contaminant analysed for or the value of any parameter exceeds the value specified in Table 2, the consent holder shall immediately:
- (i) Notify the Canterbury Regional Council; and
 - (ii) Notify the occupiers of all adjoining properties to the south and south-east of the hardfill site; and
 - (iii) Implement all necessary measures to reduce the concentration of the contaminant in groundwater. Such measures may include:
 - - cessation of activities that may have caused the excessive concentrations
 - - removal of contaminant source(s),
 - - stabilisation or capping of contaminant source(s),
 - - revision of stormwater management procedures,
 - (b) Any material removed in accordance with (a) shall be disposed of at an appropriate facility, and the consent holder shall provide the Canterbury Regional Council with written confirmation of such disposal within 10 working days.
 - (c) Following the implementation of any measures undertaken in compliance with (a) or (e), a validation sample shall be taken from the same bore as the previous sample was taken. The validation sample shall be analysed to determine the concentration of any contaminants for which the concentrations in Table 2 were exceeded in the previous sample. Results of this analysis shall be reported to the Canterbury Regional Council within two working days of receipt of the results by the consent holder.
 - (d) If the results obtained in accordance with (c) show that the concentrations of contaminants or parameters analysed do not exceed the maximum values specified in Table 2 then, notwithstanding Condition 12, further samples shall be taken thereafter from the same bore as the further sample was taken at the following frequencies:
 - (i) Three monthly for the first two years after the further sample was taken in accordance with (c) and at least once every six months for the next two years; and
 - (ii) 12 monthly following the four year period specified in (i). Such samples shall be analysed for the contaminant or parameter that exceeded the values specified in Table 2 in the previous sample, and the results reported to the Canterbury Regional Council within 10 working days of receipt of the results by the consent holder.
 - (e) If the results obtained in accordance with (c) or (d) show the concentrations of contaminants do exceed those specified in Table 2, then the consent holder shall implement further measures as set out in (a).
- 17) (a) At the times of the first four occasions of sampling of groundwater in accordance with Condition 12 the depth to groundwater in all the bores from which samples are taken shall be determined to the nearest centimetre from a surveyed datum point.
- (b) These depths shall be recorded and provided to the Canterbury Regional Council within 20 working days of the time when the depths were determined.
- 18) There shall be no burning of any waste material.

- 19) Within one month of the date when this consent is granted, a site management plan shall be prepared and provided to the Canterbury Regional Council. This management plan shall detail all actions required to ensure compliance with the conditions (2)-(5), (7)-(10) and (12)-(18) of this consent. The management plan shall state the name and position of persons responsible for each action described in the plan. The plan shall be read and signed by all operators working at the hardfill site, shall be updated immediately to include any staff changes, and shall be available for inspection at the hardfill site at all times.
- 20) The Canterbury Regional Council may, on any of the last five working days of January each year, serve notice of its intention to review the conditions of this consent for the purposes of:
- (a) dealing with any adverse effect on the environment which may arise from the exercise of this consent and which it is appropriate to deal with at a later stage; or
 - (b) requiring the adoption of the best practicable option to remove or reduce any adverse effect on the environment; or
 - (c) changing the monitoring requirements of conditions of this consent.

ISSUED AT CHRISTCHURCH ON 26 JANUARY 2007

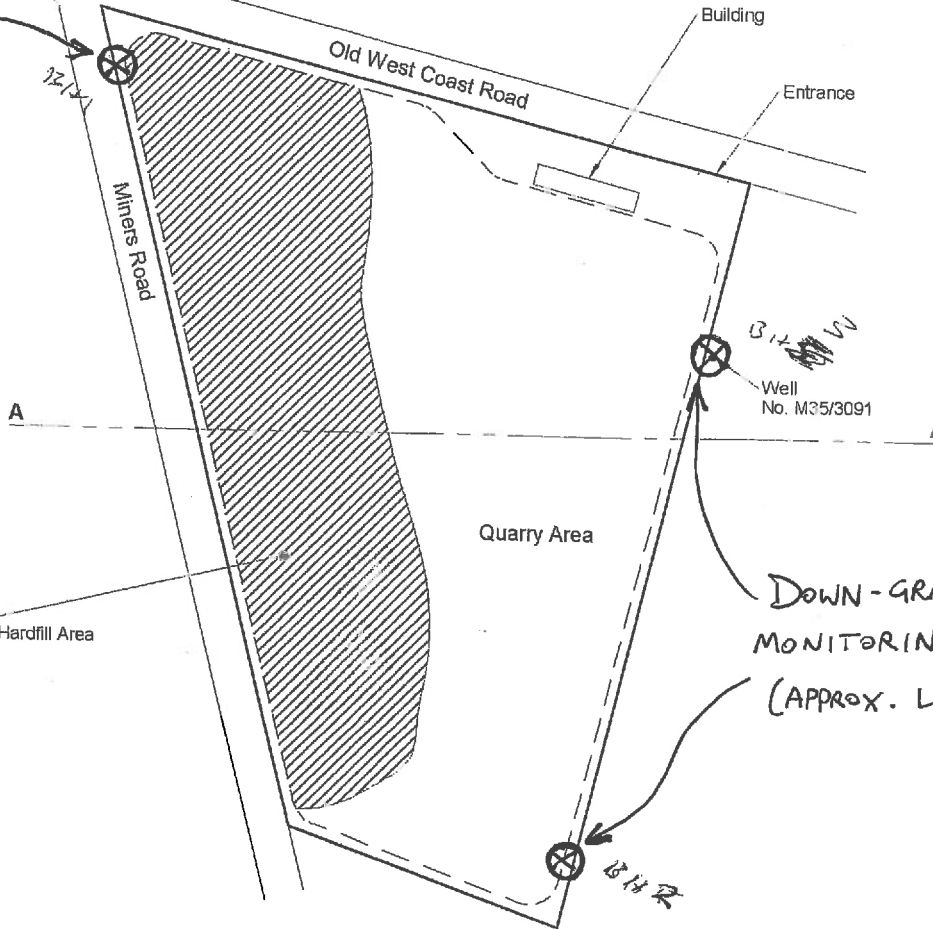


Tania Harris
TEAM LEADER CONSENTS OPERATIONS
on behalf of the Canterbury Regional Council

Environment Canterbury is the promotional name of the Canterbury Regional Council

PLAN CRC 011717

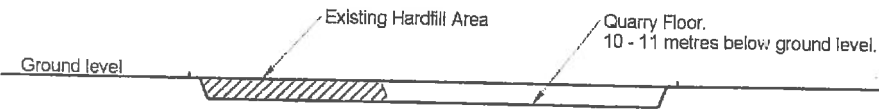
UP-GRADE
MONITORING
BORE
(APPROX. LOCATION)



Existing Hardfill Area

Quarry Area

DOWN-GRADIENT
MONITORING BORES
(APPROX. LOCATION)



Sectional View A-A

Rev	Desc	Date	By

Dimensions in Millimetres.
Do Not Scale.



Screening & Crushing Systems Ltd
 P.O. Box 6082, Christchurch, New Zealand
 Telephone: +64 (0) 3 364 2711 Fax: +64 (0) 3 364 1376
 Email: info@scs.co.nz or sales@scs.co.nz www.scsnz.co.nz

The design and preparation of drawings and documents by Screening & Crushing Systems Ltd is subject to verification and approval by the relevant authorities. It is the responsibility of the client to ensure that all drawings and documents are approved by the relevant authorities.

Client
 Westway Contractors

Project

Location

Sheet
 Quarry Layout

Project No.	Revision No.	Electric	Project

Transfer of CRC011717

From Westway Contractors to Blackstone Quarries Ltd

Produced by: alisonc
Date: 29/01/2007 8:05:33 a.m.

Environment Canterbury
58 Kilmore Street
PO Box 345
Christchurch
Ph: [03] 365-3828
Fax: [03] 365-3194

This plot was created using information from Environment Canterbury's records. It is supplied in good faith, and every effort has been made to insure the accuracy of the information shown. However its accuracy and completeness is not guaranteed. If the information shown is relied on in support of a resource consent application it should be verified independently.

RIVERS MAIN

Parcel

TA BOUNDARIES

ROADS

Road Centrelines: Best National Road Centrelines method.
This representation is a correct record of a road or track and not necessarily indicate a right-of-way.

Road Centrelines

LANDPARCELS

Land parcels boundaries from LRC CR2 database.

