

Our Reference: 1249070055-46308

Consent No. RM23.185.01

DISCHARGE PERMIT

Pursuant to Section 104B of the Resource Management Act 1991, the Otago Regional Council grants consent to:

Name: Dunedin City Council

Address: 50 The Octagon, Dunedin

To discharge waste, hazardous waste, and leachate onto land in a manner that may result in contaminants entering water for the purpose of the operation, closure, and aftercare of the Green Island Landfill.

For a term expiring 14 May 2060

Location of consent activity: Green Island Landfill, located at 9, 114, 140, and 170 Brighton Road, Dunedin

Legal description of consent location: Refer Attachment C

Map Reference of approximate site midpoint (NZTM2000): E1399304 N4912786

Conditions

General

1. Under section 125 of the Resource Management Act 1991, this consent lapses five years after the date of commencement of the consent unless:
 - a) The consent is given effect to; or
 - b) The Otago Regional Council extends the period after which the consent lapses.
2. This consent is also subject to the General Conditions in Schedule 1 – General Conditions and Attachments A-C to that Schedule. In the event of differences or conflict between the General Conditions and the conditions of this consent, the conditions of this consent prevail.
3. Waste acceptance at the Green Island Landfill must cease no later than 12 months after the Smooth Hill Landfill has been commissioned and begins accepting waste, except that this condition does not apply to the acceptance of cleanfill material, contaminated soils, and capping soils required to complete the final cap in accordance with General Conditions 30 and 31.

Leachate Collection System

4. The additional internal leachate drains within the southwestern area of the landfill shown on drawing 12547621-C204 must be installed prior to the placement of any new waste in this area. The drains must discharge to the leachate collection trench.
5. Extension of the leachate collection trench with associated leachate pump stations along the southern side of the landfill as shown on drawing 12547621-C204 must be completed within 3 years of the commencement of this resource consent. The extended section of trench must be subject to detailed design which must:
 - a) Be undertaken by a suitably qualified and experienced person;
 - b) Be submitted to the Otago Regional Council for written certification in accordance with General Condition 5.
6. The following works must be completed at least 6 months prior to the final acceptance of waste at the landfill:
 - a) Installation of an additional leachate rising main and power supply cable for the leachate collection pump stations on the ground surface.
 - b) Raising the level of the existing manholes, chambers, and electrical controls for the leachate collection pump stations to minimise the risk of inundation by flood waters.
7. Construction of the works listed in Conditions 4 and 5 must:
 - a) Be managed to ensure effects on slope stability and generation of odour and dust are minimised.
 - b) Implement an accidental discovery protocol to manage effects on any undiscovered archaeological sites
 - c) Ensure any waste or soil material that is removed is transferred and disposed of in the active landfilling area.
 - d) Ensure any dewatering water from excavations is directed to the leachate collection trench for disposal.
 - e) Ensure the geology of the area surrounding the extension to the leachate collection trench is physically assessed and logged, including photographic record, and records sent to the Otago Regional Council within 3 months of completion of the works. Photographs must be in colour and be no smaller than 200 x 150 millimetres in size and be in JPEG form.
8. Any stormwater diversions and discharges, air discharges, and disturbance of contaminated land associated with the construction works under Conditions 4 and 5 must comply with the conditions of resource consents RM23.185.05, 06, and 08.
9. The leachate collection trench must be operated during operation, closure, and aftercare of the landfill to:
 - a) Maintain a depression in the phreatic (zone of saturation) groundwater level surface at all times. The depression of the phreatic surface must be sufficient to cause the drain to intercept phreatic groundwater which would ordinarily have flowed outward from the trench to adjacent groundwater and the Kaikorai Stream or associated water bodies. The presence of the depression must be determined by measuring the slope of the phreatic groundwater level between the leachate collector trench and the Kaikorai Stream, and the

- leachate collection trench and the fluid level in the landfill. The slope must be inward, towards the collector drain at all times; and
- b) Ensure the effective long term containment, collection and monitoring of contaminated leachate and to protect the Kaikorai Stream and estuary, coastal waters and the uses and values associated with these waters, including those associated with humans, plants, animals, and aquatic life.
10. The leachate collection system must be operated to ensure the maximum head of leachate within the landfill is generally near to or below 12 metres above mean sea level, and no greater than 16 metres above mean sea level, within 40 m of the top edge of the landfill.
 11. All leachate collected by the leachate collection system must be conveyed to the Green Island Wastewater Treatment Plant for disposal.
 12. The following must be retained on site at all times:
 - a) An on-site standby electrical supply to ensure that the operation of the leachate collection system is not interrupted by any loss of mains power supply.
 - b) Supplies of leachate rising main pipe, power cable, and spare submersible pumps to enable repairs to the leachate collection system.
 - c) A minimum of 5000 m³ of intermediate and capping soils to enable repairs to the cover and capping systems.
 13. The leachate collection system must be maintained to enable its ongoing operation at all times and that system must be restored as soon as practicable in the event of a malfunction or fault. The Landfill Development Management Plan required by General Condition 6 and Landfill Closure Management Plan required by General Condition 10 must include maintenance practices and procedures for the leachate collection system, and emergency response procedures following a seismic event.
 14. Effective measures must be implemented to minimise stormwater infiltration and runoff into areas of uncovered waste and the leachate collection system. The Landfill Development Management Plan required by General Condition 6 must describe the stormwater infiltration and runoff measures.
 15. The Consent Holder must operate, and maintain a monitoring system for the operation of the leachate pumping system. The system must automatically trigger an alert in the event of:
 - a) A pump fault;
 - b) A low water level in a pump wet well; and
 - c) A high water level in a pump wet well.
 16. The system must be continuously monitored. In the event of an alert being raised, the cause of the alert must be investigated within twenty four hours and appropriate remedial measures must be implemented. The following information must be recorded for each alert:
 - a) the date and time of the alert;
 - b) the nature of the alert;
 - c) the reason for the alert; and

- d) the date, time and nature of the action taken to remedy the cause of the alert.
- 17. The Consent Holder must continuously monitor and record the flow of the pumped discharge from the combined leachate collection sumps and provide the results to Otago Regional Council upon request and additionally as part of the Annual Report required by General Condition 59.
- 18. The Consent Holder must record the leachate level at landfill gas well GW17 monthly and provide the results to Otago Regional Council upon request and as part of the Annual Report required by General Condition 59.

Waste Acceptance and Placement

- 19. The active landfilling area must not be open to the general public.
- 20. Kerbside collected food and garden organic waste streams must be processed separately from other waste to minimise disposal of this material at the landfill.
- 21. Materials accepted into the landfill must be limited to the following as defined by the WasteMINZ Technical Guidelines for Disposal to Land 2018:
 - a) municipal solid waste (MSW) ;
 - b) household waste;
 - c) commercial waste;
 - d) industrial waste;
 - e) construction and demolition waste;
 - f) clean fill material;
 - g) managed fill material;
 - h) contaminated soil; and
 - i) hazardous waste.
 - j) liquid waste.
- 22. Waste acceptance criteria for the materials in Condition 21 must be developed and included in the Landfill Development Management Plan required by General Condition 6. Except for the acceptance of liquid waste, the waste acceptance criteria must give effect to the following:
 - a) Conditions 23 and 24 of this consent;
 - b) The list of prohibited waste as defined in Appendix I.1 the WasteMINZ Technical Guidelines for Disposal to Land 2022 or any updated or equivalent replacement New Zealand issued guidelines;
 - c) Landfill waste acceptance criteria in the Ministry for the Environment Module 2: Hazardous Waste Guidelines, 2004, and specifically:
 - i. The Module 2 Class A total concentration (TC) limits are to be used as screening acceptance limits; and
 - ii. Where the TC limits under (i) above are exceeded, the Module 2 Class B toxicity characteristic leaching procedure (TCLP) limits are to be used to determine the acceptability of material for disposal.
 - d) Landfill disposal standards and notices issued by the Environmental Protection Authority under the Hazardous Substances and New Organisms Act 1996.

23. Medical wastes must only be accepted in accordance with NZS4304:2002 Healthcare Waste Management or subsequent amendments.
24. Asbestos must only be accepted in accordance with the Health and Safety in Employment (Asbestos Regulations) 2016 or subsequent amendments.
25. Material accepted into the landfill must meet the waste acceptance criteria included in the Landfill Development Management Plan. Any waste not meeting the criteria must not be accepted for disposal at the landfill.
26. The Consent Holder must review the waste acceptance criteria in the Landfill Development Management Plan annually, and prepare a report identifying any changes and/or additions required to give effect to any changes in applicable Ministry for the Environment and Environmental Protection Authority guidance, standards and notices, including as a result of emerging contaminants. The report must be provided as part of the annual review of the Landfill Development Management Plan under General Condition 6 to the Otago Regional Council for written recertification of the Landfill Development Management Plan in accordance with General Condition 5.
27. Prior any new commercial waste transporter being able to dispose waste at the landfill, or in the case of regular transporters before there is a change to the nature of the waste being disposed of, the Dunedin City Council Landfill Engineer must first confirm to the waste transporter the material meets the waste acceptance criteria in the Landfill Development Management Plan.
28. A notice must be placed at the landfill entrance which identifies the wastes that are unacceptable at the landfill.
29. The landfill site must be securely fenced and the gates are closed outside of operating hours.
30. Waste deliveries must only be received at the landfill between the hours of:
 - a) Monday to Saturday 8.00am – 5.30pm.
 - b) Sunday 9.00am – 5.30pm.Waste deliveries must not be received at the landfill on Christmas Day, Easter Friday, and the morning of Anzac Day (until 1pm).
31. Random visual inspections of incoming loads for the presence of hazardous waste must be undertaken by the landfill operator at a minimum rate of 1 in 50 loads and tipping of all waste into the landfill must be supervised. The Landfill Development Management Plan required by General Condition 6 must include practices and procedures for waste inspection and rejection of loads.
32. Highly odorous waste received must be:
 - a) Pre-booked to ensure preparations are made including ensuring cover material is available at the disposal location; and
 - b) meet the requirements of General Condition 25.

33. The Landfill Development Management Plan required by General Condition 6 must include specific practices and procedures for the pre-acceptance, handling and placement of special waste, hazardous waste, and highly odorous waste. This must include as a minimum the requirements for prioritising placement and covering of waste as required by General Condition 25 and Condition 32 above.
34. The Consent Holder must maintain records of:
- a) The quantities and types of waste accepted and rejected;
 - b) Load inspections; and
 - c) Disposal locations of special waste, hazardous waste, and highly odorous waste.
- These records must be included in the Annual Report provided to the Otago Regional Council under General Condition 59.
35. Waste must only be discharged onto, or into, land within the waste placement extent shown on drawing 12547621- G102.

Landfill Fire Prevention and Response

36. No burning must occur anywhere on the landfill site and combustible materials must not be stockpiled over the landfill extent.
37. The outcomes of the review of the landfill's waste screening procedures to lower the potential for prohibited and higher risk flammable wastes to be landfilled at the site, including waste such as marine flares, gas bottles, pool chlorine, and hot loads must be implemented prior to commencement of this consent.
38. A fixed mounted thermal imaging camera capable of scanning the active landfilling area and vegetated surface of the landfill and triggering an alarm in the event of a surface fire being detected, must be installed by within 3 months of the commencement of this consent and maintained in an operational state.
39. The following must be provided on site by within three months of the commencement of this consent:
- a) The site's water cart must be retrofitted with a firewater cannon capable of spraying water as far as practicable, or alternatively a portable pump must be provided capable of being fitted to the water cart and spraying water as far as practicable.
 - b) Water tanks containing at least 60,000 litres of water positioned close to the active landfilling area at all times.
40. The active landfilling area must be under the observation or surveillance of the landfill operator at all times during landfill operating hours.
41. A 10 m wide firebreak free of combustible vegetation and material must be maintained around the landfill footprint at all times.

42. The Landfill Development Management Plan required under General Condition 6 must include practices and procedures prepared by a suitably qualified person to ensure the risk of landfill fires is prevented as far as practicable, and any fires are promptly detected, responded to and extinguished, and to achieve the conditions of this consent. The practices and procedures must be developed in consultation with Fire and Emergency New Zealand (FENZ) and must include the following as a minimum:
- a) Fire prevention measures to be implemented to prevent fires from igniting in the landfill and any other areas of the site;
 - b) Fire detection procedures to be implemented during operating hours and after-hours;
 - c) Fire reporting and notification procedures to emergency services, neighbours and regulators, including a directory of notification contact details;
 - d) Fire risk mitigation and readiness features.
 - e) Fire response procedures to be implemented for surface and sub-surface fires, including monitoring;
 - f) Incident reporting and cause investigation protocol; and
 - g) Protocol for review and evaluation of fire causes, effectiveness of fire prevention, detection mitigation and response measures, and process for continuous improvement, including conducting regular simulated fire drills.

Advice Note: *In addition to the measures above, landfill gas monitoring management measures contained in the discharge to air resource consent RM23.185.06 are relevant to landfill fire prevention and response.*

Vegetation Management and Restoration Plan

43. A Vegetation Management and Restoration Plan (VMRP) must be prepared by a suitably qualified person within six months of the commencement of this consent. This Plan must be prepared in accordance with the Draft Vegetation Management and Restoration Plan Framework (Boffa Miskell, 2023). The purpose of the Plan is to manage the health and long-term replacement of the existing screening vegetation on the site, and provision of riparian planting, with the objective of ensuring the landfill and waste minimisation and transfer facilities continue to be integrated into the surrounding landscape, adverse visual effects are minimised, existing views of Pukemakamaka/Saddle Hill are maintained, and the enhancement of ecological and cultural values. The Plan must be developed in consultation with Te Rūnanga o Ōtākou. As a minimum the Plan must include:
- a) A survey of the health of the existing trees within the site and other DCC owned areas for revegetation, by an appropriately qualified arborist or similar expert, with knowledge of local environmental conditions.
 - b) Routine monitoring and maintenance of the existing trees to promote their health and long-term stability.
 - c) Long-term post closure actions for the replacement of the existing trees, incorporating eco-sourced native species to enhance natural character, landscape, and amenity values, and their ongoing maintenance. This will be carried out in a staged process demonstrated to best provide for the continuation of vegetation screening of an effective scale and height, particularly with regards to the outlooks of surrounding residents.

- d) Riparian planting and pest management to support restoration of the ecological values of the Kaikorai Estuary, provision of habitat for taoka species and rebalancing of mauri, and in consideration of identified values, both of wildlife supported and scenic values .
- e) A detailed programme of works, including a minimum three year plant maintenance period for new planting.
- f) Key responsibilities of onsite personnel.
- g) A review process that includes Te Rūnanga o Ōtākou and Otago Regional Council.

Advice Note: *A single Vegetation Management and Restoration Plan may be prepared covering both the landfill site under this consent and the RRP site under condition 20 of resource consent RM24.143.01.*

- 44. The Vegetation Management and Restoration Plan must be submitted to the Otago Regional Council to assess that it has been prepared by appropriately qualified personnel in accordance with the conditions of consent and written certification in accordance with General Condition 5.
- 45. The Vegetation Management and Restoration Plan certified under Condition 44 must be implemented in accordance with the timeframes specified in the Plan and the vegetation maintained on an ongoing basis by the Consent Holder.

Bird Management

- 46. The Consent Holder must avoid potential mortalities or injuries to tree and cavity nesting native birds by only undertaking vegetation removal:
 - a) During the non-breeding season (March to August), or
 - b) When a suitably qualified ornithologist has confirmed that no native birds are breeding in the vegetation to be removed within 24 hours of any vegetation being disturbed.
- 47. If native birds are breeding in vegetation intended to be removed, a 20 m buffer must be established around each active nest and no vegetation removal activities are to occur until a suitably qualified ornithologist confirms nesting activities are complete (i.e. the nest has failed, or the chicks have hatched and naturally left the nest).
- 48. The Consent Holder must implement the Southern Black Backed Gull (SBBG) Management Plan, prepared by Avisure, dated November 2023, or any subsequent updated version of the plan, during the operation of the landfill. The purpose of the Plan is to manage Green Island landfill food availability and the breeding success of the existing SBBG population at Dunedin breeding sites where access is available, with the objective of reducing the existing level of bird strike risk to aviation prior to the closure of the Green Island landfill. The Plan must be developed in consultation with Te Rūnanga o Ōtākou, the Department of Conservation and Dunedin International Airport Limited. As a minimum the Plan must include:
 - a) Outcomes of consultation completed with Te Rūnanga o Ōtākou, the Department of Conservation and Dunedin International Airport Limited;
 - b) A monitoring regime which enables identification of SBBG breeding sites, SBBG baseline population characteristics, and how the SBBG population responds to management actions;

- c) Monitoring of other bird species, including red billed gulls, to ensure they present no increased risk to aviation.
- d) Measurable targets for the reduction of the SBBG population;
- e) Description of management actions and methods to be implemented to limit SBBG breeding success at SBBG breeding sites where access is feasible, and limit landfill food availability at Green Island landfill leading up to its closure;
- f) Procedures for liaison with and sharing of information with Te Rūnanga o Ōtākou, the Department of Conservation and Dunedin International Airport Limited; and
- g) An adaptive management and review process.

Litter and Pests

- 49. Windblown litter must be prevented from leaving the active landfilling area as far as practicable, and the build-up of litter within the site and surrounding the site boundaries must be monitored and material removed on at least a monthly basis. The Landfill Development Management Plan required by General Condition 6 must include practices and procedures for litter management, including but not limited to control methods, inspections and removal of windblown litter.
- 50. Pest plants, mammalian pests (rodents and mustelids) and feral cats within the landfill operational area must be eradicated as far as practicable. The Landfill Development Management Plan required by General Condition 6 must include practices and procedures for pest management, including but not limited to eradication methods and pest monitoring.

Issued at Dunedin this 14th day of May 2025



Alexandra King
Manger Consents

Schedule 1 – General Conditions Relevant to All Consents

1. The operation, closure and aftercare of the landfill (including all associated discharges of contaminants to land, water and air) must be undertaken in general accordance with the following documents, except where modified by other conditions of this consent. In the event of differences or conflict between the contents of the documents and the conditions, the conditions prevail:
 - a) Green Island Landfill Closure, Assessment of Environmental Effects, Boffa Miskell, March 2023 (Updated October 2024), including attached Appendices 1 – 19.
 - b) Waste Futures – Green Island Landfill Closure, Design Report, GHD, September 2023 and associated design drawings listed on drawing sheet 12547621506381-G001.
 - c) Green Island Landfill, Development and Management Plan, Stantec, September 2023, except as updated in accordance with General Conditions 6 - 9.
2. An alternative design or methodology to that proposed in the consent documents specified in General Condition 1 may be used if:
 - a) The adverse effects of the activity are demonstrated by the Consent Holder to be the same or less than the consented design or methodology; and
 - b) The alternative design or methodology has been provided under General Condition 17 to the Otago Regional Council and written certification is obtained from the Otago Regional Council; or
 - c) The alternative design or methodology has been incorporated into the Landfill Development Management Plan required under General Condition 6 or Landfill Closure Management Plan under General Condition 10 and provided to the Otago Regional Council and written certification is obtained from the Otago Regional Council.
3. These resource consents and a copy of the Otago Regional Council certified version of any management plan and design details required by these consents must be kept on site at all times, and the Consent Holder must ensure all relevant personnel are made aware of each document's contents.

Certification Process

4. Subject to Condition 5, the following management plans must be prepared by the Consent Holder and submitted to Otago Regional Council for written certification by as required by these consents:
 - Landfill Development Management Plan – General Conditions 6 - 9.
 - Landfill Closure Management Plan – General Conditions 10 – 14.
 - Adaptive Management Plan – General Conditions 51 – 53.
 - Vegetation Management and Restoration Plan - RM23.185.01, Conditions 43 – 45.

Advice Note: *The written certification process is confined to confirming that the management plans adequately give effect to the relevant condition(s).*

5. The Consent Holder must follow the process set out below for any plans, documents, designs or specifications (hereafter referred to as 'documents') requiring written certification from the Otago Regional Council:

- a) Documents requiring written certification must be submitted to the Otago Regional Council in electronic and hard copy form.
- b) Subject to (c) and (e) below, works to which the documents relate must not commence until the Consent Holder has received written certification from the Otago Regional Council.
- c) If the Consent Holder has not received a response from the Otago Regional Council within 20 working days of the date of submission under (a) above, or 40 working days in the case of the design of the extended leachate trench required by General Conditions 17(b) and 18, the documents must be deemed to be certified.

Advice Note: *If the Otago Regional Council's response is that that they are not able to certify the documents the Council is expected to provide the Consent Holder with reasons and recommendations for changes to the documents in writing.*

- d) The Consent Holder must consider the Council's reasons and recommendations and resubmit amended documents for written certification .
- e) If the Consent Holder has not received a response from the Otago Regional Council within 10 working days of the date of resubmission under (d) above, the documents must be deemed to be certified.
- f) If the Otago Regional Council's response is that that they are still not able to certify the resubmitted documents then the Consent Holder must nevertheless implement the resubmitted documents with a notation that written certification of them has not occurred.
- g) Condition 5(f) does not apply to the detailed design of the extended section of leachate trench required by Condition 5 of Discharge Permit RM23.185.01. Written certification of the detailed design of the extended section of leachate trench must be obtained prior to its construction.
- h) Certified documents may be amended at the request of the Consent Holder at any time subject to written recertification undertaken in accordance with Conditions 5(a) to (f) with references in those clauses to certification to be read as recertification.

Landfill Development Management Plan

- 6. The operation of the landfill and waste diversion and transfer facilities must be undertaken in accordance with a Landfill Development Management Plan (LDMP), with the overall objective of setting out details of the practices and procedures to be adopted to achieve compliance with the conditions of these resource consents.
- 7. The Landfill Development Management Plan must be prepared by a suitably qualified and experienced person and must address how the following matters will meet any requirements, limits, or restrictions set out in the conditions of these resource consents:
 - a) The LDMP must, to the extent practicable, be in accordance with best industry practice.
 - b) The stages and order of landfill development, including matters to be completed prior to each stage.
 - c) Landfill gas, leachate, groundwater and stormwater management.
 - d) Erosion and sediment controls during construction and operation.
 - e) Types of waste to be accepted and those that are prohibited.
 - f) Waste acceptance control and monitoring the types of waste accepted.

- g) Methods of placing and covering waste, including highly odorous and special waste.
 - h) Management of the active landfill area and waste diversion and transfer facilities.
 - i) Fire preparedness and response management.
 - j) Odour and dust management.
 - k) Noise management.
 - l) Litter management.
 - m) Plant and animal pest management, including bird control.
 - n) Monitoring procedures, including locations, parameters, and frequency.
 - o) Landfill inspections and maintenance.
 - p) Emergency management and contingency response procedures.
 - q) Complaints response procedures.
 - r) Record-keeping and reporting requirements.
 - s) Final landfill capping, post settlement height, shape and contours of the land.
8. Within 6 months of the commencement of these resource consents the Landfill Development Management Plan that was current in April 2025 must be updated in consultation with Te Rūnanga o Ōtākou to achieve the conditions of these resource consents and be provided to the Otago Regional Council for written certification in accordance with General Condition 5.
9. By 1 July each year the Consent Holder must, in consultation with Te Rūnanga o Ōtākou, complete a review of the certified Landfill Development Management Plan to ensure that the management practices contained within it remain adequate to ensure compliance with the conditions of these consents. If amendments are made to the Landfill Development Management Plan, the amended Plan must be submitted to the Otago Regional Council for written recertification in accordance with General Condition 5.

Landfill Closure Management Plan

10. The closure and aftercare of the landfill must be undertaken in accordance with a Landfill Closure Management Plan (LCMP).
11. The Landfill Closure Management Plan must be prepared by a suitably qualified and experienced person and in consultation with Te Rūnanga o Ōtākou, with an overall objective of setting out details of the practices and procedures to be adopted to achieve compliance with the conditions of these resource consents.
12. The Landfill Closure Management Plan must address how the following matters will meet any requirements, limits, or restrictions set out in the conditions of these resource consents:
- a) The LDMP must, to the extent practicable, be in accordance with best industry practice.
 - b) Long term use of the landfill site including the incorporation of mana whenua values and pūrākau associated with the Kaikorai Estuary.
 - c) Post closure landfill gas, leachate, groundwater and stormwater management.
 - d) Post closure maintenance of the landfill cap.
 - e) Post closure monitoring procedures, including locations, parameters, and frequency.
 - f) Any ongoing requirements of the VMRP required by Condition 43 of RM23.185.01.
 - g) Landfill inspections and maintenance.

- h) Emergency management and contingency response procedures.
 - i) Complaints response procedures.
 - j) Record-keeping and reporting requirements.
13. The Landfill Closure Management Plan must be submitted to the Otago Regional Council at least 3 months prior to the final acceptance of waste at the landfill for written certification in accordance with General Condition 5.
14. Every three years following the final acceptance of waste at the landfill, the Consent Holder must, in consultation with Te Rūnanga o Ōtākou, complete a review of the certified Landfill Closure Management Plan to ensure that the management practices contained within them remain adequate to ensure compliance with the conditions of these consents. If amendments are made to a management plan, the amended plan must be submitted to the Otago Regional Council for written recertification in accordance with General Condition 5.

Management Plan Amendment

15. The Consent Holder may make amendments to the certified Landfill Development Management Plan or Landfill Closure Management at any time. Any amendments must be made in consultation with Te Rūnanga o Ōtākou and submitted to the Otago Regional Council for written recertification in accordance with General Condition 5.

Design and Construction

16. All investigations, detailed design and supervision of construction of the landfill must be undertaken by suitably qualified personnel experienced in such works, or works of a similar nature.
17. Within 20 working days prior to commencing the construction of any:
- a) Landfill perimeter bund;
 - b) Leachate collection system, including the extension to the leachate collection trench;
 - c) Flood resilience improvements;
 - d) Permanent landfill gas treatment system;
 - e) Stormwater treatment and discharge system;
 - f) Defence against water along the Kaikorai Stream; or
 - g) Final capping.

The Consent Holder must submit a design report with specifications and design drawings to the Otago Regional Council for written certification in accordance with General Condition 5.

18. The pipe contained within the extension to the leachate collection trench must be designed to be resilient to deformations under a ULS seismic event.
19. When completed, the works specified in General Condition 17 must be confirmed by a suitably experienced Chartered Professional Engineer (CPEng) that they have been completed in accordance with the design certified by the Otago Regional Council. A Construction Quality

Assurance (CQA) report must be prepared and submitted by the Consent Holder to the Otago Regional Council within 3 months following completion of the works specified in General Condition 17.

Landfill Operation

20. The Consent Holder must appoint and retain an appropriately qualified and experienced person to supervise the operation of the landfill.
21. The active landfilling area must not exceed 900 m² at any time, except that it may be expanded to 1200 m²:
 - a) During the times of the day where the rate of waste truck arrivals is 25% more than average;
 - b) During waste placement in areas with unusual constraints including shaping to form an extreme corner of the waste pile; or
 - c) Where landfill gas escape from underneath the day's refuse, and odour from the day's refuse are unlikely.
22. The active landfilling area must not exceed 300 m² at any time when the daily fire danger rating for the landfill site is very high, extreme, or very extreme for forestry as reported by the New Zealand Fire Weather System.

Advice Note: *The New Zealand Fire Weather System (FWS) is operated by the National Institute of Water and Atmospheric Research (NIWA) on behalf of Fire and Emergency New Zealand (FENZ) to monitoring fire danger.*

23. The active landfilling area must be limited to no more than 30 m wide.
24. Except where required by General Condition 25, all waste must be covered at the end of each working day with non-combustible compacted soil cover to a minimum depth of 150 millimetres.
25. All special waste, highly odorous waste, and medical waste must be covered no more than 30 minutes following its placement with non-combustible compacted soil cover to a minimum depth of 150 millimetres.

Advice Notes:

The discharge of highly odorous waste is restricted by Condition 32 of Discharge Waste and Leachate to Land Permit RM23.185.01

Discharge to Air Permit RM23.185.06 Condition 6 imposes additional requirements for the discharge of highly odorous wastes.

26. There must be no waste that remains uncovered overnight.
27. Daily cover must be removed before waste placement at the start of each day. As a minimum, windows must be cut through the previous layer of daily cover sufficient to allow the free flow of leachate from the new waste layer to the underlying layers.

28. All areas where further waste will not be placed for three months or more must be covered with non-combustible compacted intermediate soil cover to a minimum depth of 300 millimetres. Grass or vegetative cover must be established on the intermediate soil cover, except within 10 m of the active landfilling area.
29. Final capping of the landfill must be undertaken in a progressive manner. The Consent Holder must complete final capping of each landfilling stage as soon as practicable but no later than 2 years following final receipt of waste in that area. Final capping of the landfill must be fully completed no later than two years following the final acceptance of waste at the landfill. The final cap profile in all areas must comply with General Conditions 30 and 31.
30. The final capping layer must comprise the following minimum layers, from top to bottom;
- 350 millimetres of sub-soil and topsoil that is grassed, except that grassing is not required within 10 m of the active landfilling area; and
 - 600 millimetres of low permeability clay with a permeability coefficient of not more than 1×10^{-7} metres per second; and
 - 200 millimetres soil cover (i.e. compacted intermediate cover soils); and
 - 300 millimetres of compacted intermediate cover soils.
31. The final cap must:
- as far as practicable, have a gradient of 4% or greater, based on the final received waste tonnages; and
 - be graded and incorporate drainage so as to prevent ponding of stormwater and erosion and cracking of the capping surface.
32. A walkover visual inspection of the landfill operational area must be undertaken at least monthly and immediately following storm events greater than 50% Annual Exceedance Probability (AEP), to check for:
- Vegetation die off;
 - Cracking of the final cap surface;
 - Subsidence or erosion;
 - Landfill gas leaks or odour;
 - Leachate break out through the cap;
 - Waste protruding through the cap; or
 - Stormwater system overflows or damage.
- Any identified incidences of defects (a) to (g) must be remedied by the Consent Holder as soon as practicable. A report on the inspection and details of any remedial actions must be forwarded to the Otago Regional Council within one month of each inspection.

Monitoring

33. An automatic weather station that continuously and accurately records wind speed and direction, temperature, relative humidity, and rainfall must be operated, and maintained on the site. The weather station must be serviced and calibrated by a suitably qualified and experienced

technician at least annually to ensure accurate monitoring. Data recorded by the weather station must be provided to the Otago Regional Council in electronic format upon request.

Groundwater and Surface Water Monitoring

34. The Consent Holder must install a new monitoring well cluster of 3 wells at the location shown in Attachment A. The wells must be screened in different geological layers, comprising the Upper Kaikorai Estuary Formation (UKEM), Lower Kaikorai Estuary Formation (LKEM), and Abbotsford Mudstone.

35. The Consent Holder must:

- a) lodge a resource consent application to drill the new groundwater monitoring wells specified in General Condition 34 within 3 months of the commencement of these consents, if this is required to comply with the Resource Management (National Environmental Standards for Freshwater Management) 2020, or any other relevant standard or rule;
- b) construct the new wells within 3 months of any consent required under part (a) of this Condition commencing, or within 3 months the commencement of these consents if no resource consent is required under part (a) of this Condition; and
- c) commence groundwater monitoring from the new wells in the next monitoring cycle required under General Condition 39 following the completion of well construction.

Advice Note: General Condition 35 has been agreed by the Applicant and offered on an 'Augier' basis.

36. All groundwater monitoring wells must be maintained to prevent the ingress of surface water and to enable accurate monitoring of groundwater levels and groundwater quality.

37. In the event of a well being destroyed or becoming unsuitable for monitoring, the Consent Holder must replace it with a well in the same general location within 3 months of the well being destroyed or becoming unsuitable. The Consent Holder must:

- a) lodge a resource consent application to drill the replacement groundwater monitoring well within 3 months of the well being destroyed or becoming unsuitable, if this is required to comply with any relevant standard or rule;
- b) Construct the replacement well within 3 months of the commencement of any consent required under part (a) of this Condition, or within 3 months of the well being destroyed or becoming unsuitable if no resource consent is required under part (a) of this Condition; and
- c) Commence groundwater monitoring from the replacement well in the next monitoring cycle required under Condition 39 following the completion of well construction

38. The Consent Holder must undertake the leachate monitoring set out in Table 1.

Table 1: Leachate Monitoring		
Frequency	Location as shown in Attachment A	Parameter
Monthly	Leachate collection system pumpstations and manholes	Water Levels

Table 1: Leachate Monitoring		
Frequency	Location as shown in Attachment A	Parameter
Quarterly (reducing to 6 monthly, two years post closure)	Representative sample of leachate collected from PS3 sampling point.	pH (pH units)
		Electrical conductivity (mS/cm)
		Dissolved oxygen (mg/L)
		Dissolved Boron
		Ammoniacal nitrogen
		Nitrate nitrogen
		Chloride
		PFOS (first three years)
		PFOA (first three years)
		Dissolved Aluminium
		Dissolved Arsenic
		Dissolved Cadmium
		Dissolved Chromium
		Dissolved Copper
		Dissolved Iron
		Dissolved Lead
		Dissolved Manganese
		Dissolved Nickel
		Dissolved Zinc
Annually	Representative sample of leachate collected from PS3 sampling point	Sodium
		Potassium
		Calcium
		Cyanide
		Magnesium
		Bicarbonate
		Sulphate
		Dissolved reactive phosphorous
		Volatile organic compounds (VOC)
		Semi volatile organic compounds (SVOC)
		BOD
		COD

39. The Consent Holder must undertake the groundwater monitoring set out in Table 2. Where trigger levels are required, they are to be established in accordance with General Condition 43.

Table 2: Groundwater Monitoring			
Frequency	Location as shown in Attachment A	Parameter	Trigger level required
Monthly	Line 1-8 A/B/C/D wells	Groundwater Levels	
	BH103 New well cluster		
		pH (pH units)	

Table 2: Groundwater Monitoring			
Frequency	Location as shown in Attachment A	Parameter	Trigger level required
Quarterly (reducing to 6 monthly, two years post closure)	Line 1-8 A/B/C/D wells BH103 New well cluster	Electrical conductivity (mS/cm)	
		Dissolved oxygen (mg/L)	
		Dissolved Boron	Yes
		Ammoniacal nitrogen	Yes
		Nitrate nitrogen	Yes
		Chloride	
		Dissolved Aluminium	Yes
		Dissolved Arsenic	Yes
		Dissolved Cadmium	Yes
		Dissolved Chromium	Yes
		Dissolved Copper	Yes
		Dissolved Iron	
		Dissolved Lead	Yes
		Dissolved Manganese	Yes
		Dissolved Nickel	Yes
		Dissolved Zinc	Yes
		PFOS (first three years)	Yes
		PFOA (first three years)	Yes
Annually	Line 1-8 A/B/C/D wells BH103 New well cluster	Sodium	
		Potassium	
		Calcium	
		Cyanide	Yes
		Magnesium	
		Bicarbonate	
		Sulphate	
		Dissolved reactive phosphorous	Yes
		Volatile organic compounds (VOC)	Yes
		Semi volatile organic compounds (SVOC)	Yes

40. The Consent Holder must undertake the surface water monitoring set out outlined in Table 3 below. Where trigger levels are required, they are to be established in accordance with General Condition 43.

Table 3: Surface Water Monitoring			
Monitoring Frequency	Location as shown in Attachment A	Parameter	Trigger level required
3 hourly (using automatic water level pressure transducer)	GI3	Kaikorai Stream levels	
Quarterly (reduced to 6 monthly, two	Surface water locations GI 1, GI 2,	pH (pH units)	Yes
		Temperature	

Table 3: Surface Water Monitoring			
Monitoring Frequency	Location as shown in Attachment A	Parameter	Trigger level required
years following landfill closure)	GI 3, GI 5 and estuary at Brighton Road bridge within three hours of low tide	Electrical conductivity (mS/cm)	
		Dissolved oxygen	Yes
		Ammoniacal nitrogen	Yes
		Nitrate nitrogen	Yes
		Boron	Yes
		Chloride	
		Aluminum	Yes
		Arsenic	Yes
		Cadmium	Yes
		Chromium	Yes
		Copper	Yes
		Iron	
		Lead	Yes
		Manganese	Yes
		Nickel	Yes
		Zinc	Yes
		Total suspended solids	Yes
		<i>E. coli</i>	Yes
		<i>Enterococci</i>	Yes
		PFOS (first three years)	Yes
		PFOA (first three years)	Yes
Annual	Surface water locations GI 1, GI 2, GI 3, GI 5 and estuary at Brighton Road bridge within three hours of low tide at low tide	Sodium	
		Potassium	
		Calcium	
		Cyanide	Yes
		Bicarbonate	
		Sulphate	
		Dissolved reactive phosphorus	Yes
		Volatile organic compounds (VOC)	Yes
		Semi volatile organic compounds (SVOC)	Yes

41. The Consent Holder must undertake the sediment pond water monitoring set out in Table 4. Where trigger levels are required, they are to be established in accordance with General Condition 43.

Table 4: Sediment Pond Monitoring			
Monitoring Frequency	Location as shown in Attachment A	Parameter	Trigger level required
Quarterly (reduced to 6 monthly, two years following landfill closure)	Western sedimentation pond	pH (pH units)	Yes
		Temperature	
	South western pond	Electrical conductivity (mS/cm)	
		Dissolved oxygen	

Table 4: Sediment Pond Monitoring			
Monitoring Frequency	Location as shown in Attachment A	Parameter	Trigger level required
	Eastern sedimentation pond	Ammoniacal nitrogen	
		Nitrate nitrogen	
	South eastern constructed wetland	Boron	Yes
		Chloride	
		Aluminum	Yes
		Arsenic	Yes
	Eastern constructed wetland	Cadmium	Yes
		Chromium	Yes
		Copper	Yes
	After closure, the northern sedimentation pond.	Lead	Yes
		Nickel	Yes
		Zinc	Yes
		Total suspended solids	
		<i>E. coli</i>	
		<i>Enterococci</i>	
		PFOS (first three years)	Yes
		PFOA (first three years)	Yes
Annual	Western sedimentation pond	Dissolved reactive phosphorus	
		Volatile organic compounds (VOC)	
	South western pond	Semi volatile organic compounds (SVOC)	
	Eastern sedimentation pond		
	South eastern constructed wetland		
	Eastern constructed wetland		
	After closure, the Northern sedimentation pond.		

42. All leachate, groundwater, surface water, and sediment pond water sampling required under General Conditions 38 to 41 must meet the following requirements:

- Monitoring must be undertaken at the locations specified in Tables 1 to 4;
- Monitoring of the sediment ponds specified in Table 4 must include a record of whether or not the ponds are discharging freely to the downstream environment;
- Sampling must be undertaken, or overseen by, a suitably qualified professional and collected in accordance with the relevant National Environmental Monitoring Standard (NEMS);
- National Environmental Monitoring Standards Water Quality Part 1 of 4: Sampling, Measuring, Processing and Archiving of Discrete Groundwater Quality Data;

- e) National Environmental Monitoring Standards Water Quality Part 2 of 4: Sampling, Measuring,
 - f) All sample analysis must be performed by a laboratory that has International Accreditation New Zealand (“IANZ”) accreditation or otherwise as agreed in writing with the Otago Regional Council.
43. Trigger levels for the indicated parameters in Tables 2 to 4 must be set at the lesser of:
- a) The mean plus three standard deviations for parameter concentrations measured during the previous 5 years of monitoring except:
 - i. For pH mean plus and minus three standard deviations;
 - ii. For PFOS and PFOA annual mean plus three standard deviations;
 or
 - b) Any trigger value specified in Table 5 for the indicated parameter.

Table 5: Trigger Values	
Parameter	Trigger Value (µg/L – unless stated otherwise)
pH (pH units)	7.2-8.0 (pH units)
Dissolved oxygen (mg/L)	11-day minimum: 4.0 mg/L 7-day mean minimum: 5.0 mg/L
Ammoniacal nitrogen	1700
Nitrate nitrogen	2400
Aluminium	150
Arsenic	140
Boron	2500
Cyanide	14
Cadmium	0.8
Chromium	40
Copper	2.5
Lead	9.4
Manganese	3600
Nickel	17
Zinc	21
<i>E. coli</i>	540 MPN/100 mL
<i>Enterococci</i>	280 MPN/100 mL
PFOS	0.13
PFOA	220

44. The water quality trigger levels for groundwater, surface water, and sediment pond water quality for the indicated parameters in Tables 2 to 4 must be:
- a) Recorded in the Landfill Development Management Plan and Landfill Closure Management Plan; and
 - b) Updated (with respect trigger levels determined under General Condition 43(a)) annually in the Landfill Development Management Plan and three yearly in the Landfill Closure

Management Plan in accordance with the respective review periods for those Plans specified in General Conditions 9 and 14.

45. The Consent Holder must assess the monitoring results for the parameters listed in Table 2 to 4 against the trigger levels set General Condition 43 and updated under General Condition 44. The assessment must include a trend analysis and a determination of the statistical significance of any trends and be included in the Annual Report required by General Condition 59.
46. The Consent Holder must compile the results of all monitoring and assessments required under General Conditions 38 to 43 (including any leachate, groundwater and surface water physiochemical monitoring, groundwater and surface water level monitoring, alerts from the leachate pumping system and monthly records of total leachate volumes pumped from the collection trench), into tables in a digital format (excel spreadsheet file or comma separated value file). One table must be compiled for each site where monitoring is undertaken.
47. The Consent Holder must provide the results of all monitoring and assessments to the Otago Regional Council:
 - a) Within 1 week of receiving laboratory results where the trigger levels in set under General Conditions 43 or 44 are exceeded, except where the exceedance is at surface water monitoring sites GI1 and GI2 (which are upstream of the landfill);
 - b) Within 1 week of receiving laboratory results where any historical maximum contaminant (the Table 2 to 4 parameters) recorded for the site is exceeded; or
 - c) Otherwise on request; and
 - d) As part of the Annual Report required by General Condition 59.

Contingency Actions and Adaptive Management

48. In the event that the monitored contaminant concentrations exceed the trigger levels at surface water sites GI3 and GI5, and the contaminant concentrations at those sites also exceed the concentrations detected at surface water sites GI1 and GI2 upstream of the landfill, the Consent Holder must undertake two additional rounds of surface water sampling at all surface water sites, firstly no later than 1 week and secondly no later than 2 weeks after receiving the results of the initial exceedance and provide the combined results of the additional sampling to Otago Regional Council within 1 week of receiving the laboratory results.
49. If following completion of the additional two monitoring rounds required by General Condition 48 contaminant concentrations continue to exceed the trigger levels at surface water sites GI3 and GI5, and the concentrations continue to be elevated in comparison to the concentrations detected at surface water sites GI1 and GI2 upstream of the landfill, the Consent Holder must undertake an investigation into potential causes of the exceedances and prepare a report which must be provided to Otago Regional Council and Te Rūnanga o Ōtākou no later than 1 month following receipt of the laboratory results of the additional sampling required under General Condition 48. The report must outline likely causes of exceedances, statistical analysis of water quality, actions to be taken to prevent further exceedances and proposed follow up monitoring where necessary.

50. Should the groundwater level monitoring required under General Condition 39 identify outward gradients (where water levels are higher in the trench than in the monitoring wells adjacent), or a risk be identified that the gradient into the leachate collection trench may not be maintained, the Consent Holder must notify the Otago Regional Council within one working day.
51. Should the results of any monitoring required under General Conditions 38 to 41 indicate adverse effects on water quality directly attributable to landfill leachate from the Green Island Landfill entering the Kaikorai Stream, the Consent Holder must within 3 months prepare an Adaptive Management Plan. That Plan must include at least the following information:
- a) Additional investigations and groundwater and surface water monitoring designed to confirm where leachate migration is occurring, including timeframes for completing the investigations and monitoring;
 - b) Ecotoxicology investigations to establish the chemical characterisation of the leachate and test the toxicity of any leachate contaminants present in the receiving environment on aquatic fauna;
 - c) Further targeted ecological investigations, if the ecotoxicology investigations find leachate contaminants are a risk to aquatic fauna;
 - d) Proposed measures to be implemented to avoid or mitigate effects of leachate migration, including timeframes for the completion of the proposed measures which may include, but are not limited to:
 - i. Physical barriers including sheet piling, slurry or bentonite walls, or secant piles;
 - ii. Targeted groundwater and leachate abstraction using pumped wells; or
 - iii. An additional deep monitoring well on groundwater monitoring Line 3;
 - e) Follow up monitoring to confirm the effectiveness of the implemented measures;
 - f) Contingency actions in the event the implemented measures are not effective in avoiding or mitigating the effects of leachate migration; and
 - g) A review process that includes Te Rūnanga o Ōtākou and Otago Regional Council.
52. The Adaptive Management Plan must be submitted to the Otago Regional Council for written certification in accordance with General Condition 5.

Ongoing Monitoring

53. The certified Adaptive Management Plan must be implemented in accordance with the timeframes specified in the Plan.
54. The Landfill Development Management Plan and Landfill Closure Management Plan must specify practices and procedures for the monitoring of groundwater and surface water for the duration of these consents, including as a minimum:
- a) Groundwater and surface water monitoring locations, parameters, trigger levels, frequencies and monitoring methodologies for each monitoring location and monitoring parameter, including as a minimum the requirements set out in General Conditions 38 to 45 and Tables 1 to 4; and
 - b) Record keeping and reporting requirements.

Human Health and Environmental Risk Assessment

55. The Consent Holder must commence a review of the interim Human Health and Environmental Risk Assessment, prepared by GHD and dated 20 May 2024, within 3 years of the commencement of these consents. The review must be based on the collection of three years of groundwater and surface water monitoring data in accordance with General Conditions 38 to 45, including for PFAS and PFOA. An updated Human Health and Environmental Risk Assessment based on that review must be provided to Otago Regional Council within 6 months of the commencement of the review.

Complaints

56. The Consent Holder must provide contact details on the Dunedin City Council website that enable members of the public to contact the landfill operator at all times, including in case of emergency.
57. A complaint management, investigation and reporting system must be maintained by the Consent Holder during construction, operation, closure and aftercare of the landfill to record the receipt and management of all complaints, including those regarding odour or dust. The following details must be recorded:
- a) Type, date, and time of complaint;
 - b) Name and address of complainant (if available);
 - c) Location from which the complaint arose;
 - d) Wind direction at the time of complaint (if relevant);
 - e) The likely cause of the complaint;
 - f) The action taken as a result of the complaint; and
 - g) The response to the complainant.
58. The Consent Holder must notify Otago Regional Council of any complaints received as soon as practicable and within one working day of the complaint being received. All complaints must be investigated, and a response provided to the complainant. The results of investigations, actions, and responses to complainants must be provided to the Otago Regional Council within 10 working days of the complaint being received. The complaints record must be made available to the Otago Regional Council on request, and must be provided in summary form yearly in the Annual Report required by General Condition 59.

Annual Monitoring Report

59. The Consent Holder must compile an annual monitoring report on the operation of the landfill, including:
- a) The status of landfill construction, completion of landfilling of any stage, and closure and aftercare activities completed during the preceding year;
 - b) The details of any upgrades to the landfill gas and leachate management systems undertaken in the previous year;
 - c) Any non-compliance with the conditions of these consents or difficulties in achieving the practices and procedures in the Landfill Development Management Plan or Landfill Closure

Management Plan which have arisen in the preceding year and the measures taken to address them;

- d) Any emergency management procedures and contingency response procedures specified in the Landfill Development Management Plan or Landfill Closure Management Plan that were implemented during the preceding year;
- e) Landfilling operations and closure and aftercare activities proposed for the next year of the landfill operation; and
- f) Collated summaries and analyses of all monitoring results and other data required under these consents, including:
 - i. The results obtained for all leachate, groundwater, surface water and leachate pumping system monitoring undertaken. Results must be supplied in table format within the report, with a copy of all laboratory analytical reports appended.
 - ii. A description of the dates of monitoring and climatic conditions on those dates, and any other pertinent field observations.
 - iii. Complaint data, including but not limited to odour and dust, and related investigations and responses.
 - iv. Results of landfill surface methane monitoring and thermal imaging surveys and any remedial actions arising.
 - v. The results of odour monitoring, including all field monitoring record sheets.
 - vi. Interpretation of all the data, particularly with regard to landfill performance. Trends must be identified and discussed.
 - vii. Results and monitoring records relating to the thermal monitoring of the active tip face.
- g) A report, prepared at the completion of each planting season, that:
 - i. confirms all areas planted that year;
 - ii. confirms that all plantings have been completed in accordance with the certified VMRP required by Condition 43 of Discharge Permit RM23.185.01;
 - iii. confirms the status of plant maintenance, including survival and canopy closure from prior planting seasons; and
 - iv. includes supporting photographic evidence for points (i)-(iii).

The report must be forwarded to Te Rūnanga o Ōtākou and Otago Regional Council by 1 October each year unless an alternative date is agreed in writing with the Otago Regional Council. The Consent Holder must make the report publicly available on the Dunedin City Council website.

Bond

- 60. In the event that the landfill changes to private ownership, the Consent Holder must execute and maintain in existence a bond in the form set out in Attachment B.

Review of Conditions

- 61. Pursuant to Section 128 of the Resource Management Act 1991 the Otago Regional Council may within six months of the anniversary date these resource consents each year serve notice of its intention to review the conditions of these consents for the purposes of:

- a) Determining whether the conditions of these consents are adequate to deal with any adverse effect on the environment which may arise from the exercise of these consents and which it is appropriate to deal with at a later stage, or which becomes evident after the date of commencement of these consents;
- b) Ensuring the conditions of these consents are consistent with any National Environmental Standards, relevant regional plans and the Otago Regional Policy Statement;
- c) Ensuring the waste acceptance criteria conditions of these consents are consistent with applicable Ministry for the Environment and Environmental Protection Authority guidance, standards and notices, including for emerging contaminants;
- d) Reviewing the requirements and frequency of monitoring and reporting required under these consents; or
- e) Requiring the adoption of the best practicable option to reduce any adverse effect on the environment.

Advice Notes:

For the purposes of these consents:

- *‘site’ means all land within the designation boundary shown on Figure 8 in section 7.1 of the Green Island Closure, Assessment of Environmental Effects, Boffa Miskell, March 2023.*
- *‘landfill operational area’ means the area shown as such on Figure 8 in section 7.1 of the Green Island Closure, Assessment of Environmental Effects, Boffa Miskell, March 2023.*
- *‘landfill extent’ means the area shown as such on Figure 8 in section 7.1 of the Green Island Closure, Assessment of Environmental Effects, Boffa Miskell, March 2023.*
- *‘active landfilling area’ means the area of exposed waste.*
- *‘highly odorous wastes’ means, but is not limited to:*
 - *Wastewater treatment sludges, biosolids, and screenings;*
 - *Wastewater pump station screenings and grits;*
 - *Animal remains;*
 - *Waste from meat processes;*
 - *Wool scour, tannery, and fellmongery waste; and*
 - *Fish waste.*
- *‘stormwater’ means water running off from any impervious surface such as roads, carparks, roofs, as well as any other surface run-off that is collected and/or intercepted.*
- *‘liquid waste’ means any waste that contains free liquid on arrival at the landfill, or has a solids content of less than 20%, except such waste that passes the USEPA Paint Filler Liquids Test (EPA Method 9095A).*
- *‘closure’ means the completed state of the landfill following:*
 - *Placement of the capping layer on the final stage of the landfill, and establishing vegetation cover.*
 - *Completion of the installation of the LFG wells and associated pipework.*
 - *Establishment of vegetation over the soil borrow area.*
 - *Removal of any site facilities and infrastructure that is not required during the aftercare period or modifying such infrastructure for the aftercare period.*

Attachment A – Groundwater and Surface Water Monitoring Locations



Legend

	Site Boundary		Pump Station		Sedimentation Pond		River
	Staff Gauge		Surface Water		Landfill Gas Monitoring Well Locations		Monitoring Array

Bond for Green Island Landfill

31
BY THIS BOND dated this ~~xx~~ day of March 2025

THE DUNEDIN CITY COUNCIL, a territorial authority under the local Government Act 2002 (with each of its respective successors, administrators and assigns) but not including any Council Controlled Organisation or other third party operating the Green Island Landfill on its behalf ("DCC") acknowledges that subject to the provisions below it is bound to pay to THE OTAGO REGIONAL COUNCIL, a Regional Council under the Local Government Act 2002 ("the Council") the sum of two million dollars (\$2,000,000), and is subject to the other terms of this bond.

WHEREAS:

- A. DCC is the registered proprietor of an estate in fee simple in the pieces of land described in the schedule hereto ("the land").
- B. DCC applied to the Council for Resource Consents in respect of the land for the Green Island landfill.
- C. The Council granted Resource Consents on conditions that DCC shall enter into this bond to be effective in the event that the land is to be transferred by DCC to private ownership.

THIS BOND shall be void:

1. While the DCC:
 - (a) is the owner of the land; and
 - (b) Complies with the conditions of the Resource Consents granted by the Council for the operation, closure and aftercare of the Green Island landfill (consents RM23.185.01-08 ("the obligations")); or
2. If DCC transfers the land to a future owner or transfers the resource consents referred to below to another operator including any Council Controlled Organisation or other third party ("Future Owner"), and the Future Owner:
 - (a) Complies with the conditions of the Resource Consents granted by the Council for the operation, closure and aftercare of the Green Island landfill (consents RM23.185.01-08) ("the obligations"); and
 - (b) Agrees with the Council in writing to comply with the terms of this bond which includes to indemnify the Council against all costs (including costs as

between solicitor and client) damages and expenses, claims, actions and proceedings of or against the Council in consequence of or arising out of any fault, neglect, or sufferance of the owner, its servants, agents or contractors in respect of complying with the obligations and/or the exercise by the Council of its servants, agents or contractors of any of its rights, powers and remedies available under this bond.

3. This bond is released and void once all of the consents RM23.185.01-08 have expired and all consent conditions have been complied with as certified in writing by the Council.

IT IS AGREED that:

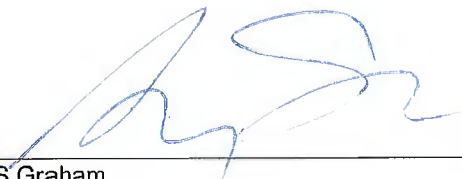
4. IF the DCC or any Future Owner fails to fulfil the obligations the DCC shall on demand by the Council pay to the Council the sum of two million dollars (\$2,000,000) either in cash, or provide a security by a bank or other financier that is approved by the Council, including the terms of any security, or such portion as may be demanded by the Council provided that in the latter case the Council may from time to time thereafter demand and the DCC shall whenever demand is made on it pay the balance or any portion of the said sum of two million dollars (\$2,000,000) until the full amount thereof if required by the Council has been paid, by the DCC to the Council.
5. THE Council, and its officers, servants or contractors, may at any time and from time to time enter on the land and take such steps and carry out such work as may be necessary to fulfil the obligations.
6. ALL expenses incurred by the Council under the clause 5 shall be recoverable by the Council from the bond paid by the DCC under clause 4.
7. WHERE the cost of any work done, and expenses incurred, by the Council under the terms of this bond, including under clause 5, exceeds the bonded amount of \$2,000,000 the amount of the excess cost above \$2,000,000 shall constitute a debt due to the Council by the DCC and shall be a charge on the land. All costs incurred by ORC to recover any debt due from the DCC are payable by the DCC to ORC.
8. THIS bond may be varied or cancelled or renewed at any time by agreement between the DCC and the Council.
9. THE liability of the DCC hereunder shall not be released varied or affected in any way by any delay, extension of time or other indulgence granted by the Council or by any delay, failure or neglect of the Council to enforce its rights hereunder or any obligation of the DCC hereunder.
10. THE powers and remedies hereby given to the Council are in addition to all other powers and remedies conferred on it by the Resource Management Act 1991 or

by any other Act and the exercise by the Council of any power or remedy under this bond or any such Act shall not prejudice its authority to exercise any other such power or remedy.

11. THIS bond shall be registered by the DCC at its cost under the Land Transfer Act 1952 against the land pursuant to section 109 of the Resource Management Act 1991.
12. IT is the intention of the parties that this bond is deemed to be a covenant running with the bonded land.

Signed by **THE DUNEDIN CITY COUNCIL**
under delegated authority by:

:



S Graham
Chief Executive

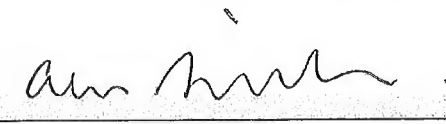
Signed by **THE OTAGO REGIONAL COUNCIL** under delegated authority by:





Councillor
Cr Gretchen Robertson

Signed by **THE OTAGO REGIONAL COUNCIL** under delegated authority by:



Councillor
Cr Alan Somerville

SCHEDULE TO BOND

1. 4.2765 hectares more or Less being Lot 1 Deposited Plan 20582 and being part Sections 41, 42 and 43 Green Island Bush District and part Section 64 Block VII Dunedin and East Taieri District and being all the land comprised and described in Certificate of Title 12C/262 subject to the reservations, covenants, restrictions and conditions as set out in the Certificate of Title.
2. 49.0242 hectares more or less being parts Sections 45, 46 and 47 Green Island Bush District and Sections 54, 55, 63, 65 and 119 Block VII Dunedin and East Taieri District and being all the land comprised and described in Certificate of Title 11B/1241 subject to the reservations, covenants, restrictions and conditions as set out in the Certificate of Title.
3. 1.0841 hectares more or less being parts Sections 45, 46 and 47 Green Island Bush District and being all the land comprised and described in Certificate of Title 368/19 subject to order in Council 3714 as to the reservations, covenants, restrictions and conditions as set out in the Certificate of Title.
4. 6.36.96 hectares more or less being Section 103 and part Sections 85, 86, 87, 98, 99, 100, 101, and 102 Block V Lower Kaikorai District and being all the land comprised and described in Certificate of Title 13A/566 (Otago Registry) subject to reservations, covenants, restrictions and conditions as set out in the Certificate of Title.
5. 6.0424 hectares more or less being Section 120 and part Section 53 Block VII Dunedin and East Taieri District and closed road intersecting Sections 86, 87, 98, 102 and 103 Block V Lower Kaikorai District and being all the land comprised and described in Certificate of Title 11C/1275 (Otago Registry) subject to reservations, covenants, restrictions and conditions as set out in the Certificate of Title.
6. 8.2303 hectares more or less being part Sections 38, 39, 40, 44 and 156 Green Island Bush District and being all the land comprised and described in Certificate of Title 7C/934 (Otago Registry) subject to reservations, covenants, restrictions and conditions as set out in the Certificate of Title.

Attachment C – Legal Descriptions

Green Island Landfill Site (as defined by the existing designation in the Proposed Second Generation Dunedin City District Plan)

Site	Legal Description	Record of Title	Area	Owner
9 Brighton Road	Part Section 45-47 Green Island Bush Survey District and Section 54 and 63 Block VII and Section 119 Block VII Dunedin & East Taieri Survey District	OT11B/1241	41.8120 hectares	Dunedin City Council
9 Brighton Road	Part Section 45-47 Green Island Bush Survey District	OT368/19	1.0841 hectares	
9 Brighton Road	Section 1 Survey Office Plan 24047	OT15C/1016	4718 square metres	
9 Brighton Road	Lot 6-7 Deposited Plan 572543 and Section 1 Survey Office Plan 24040	1040235	4464 square metres	
9 Brighton Road	Part Section 120 Dunedin & East Taieri Survey District and Part Section 53 Block VII Dunedin & East Taieri Survey District and Closed Road intersecting Sections 86,87,98,102 and 103 Block V Lower Kaikorai Survey District	OT16D/1193	4.0211 hectares	



9 Brighton Road	Section 103 Block V Lower Kaikorai Survey District and Part Section 85-87, 98 Block V and Part Section 99-101 Block V and Part Section 102 Block V Lower Kaikorai Survey District	OT16D/1194	5.5726 hectares	
9 Brighton Road	Lot 2, 4 Deposited Plan 572543 and Lot 1 Deposited Plan 20826	1040233	1837 square metres	
114 Brighton Road	Part Section 38-40, Part Section 44 and Part Section 156 Green Island Bush Survey District	OT7C/934	8.2303 hectares	
140 Brighton Road	Part Lot 4 Deposited Plan 4550	OT12C/261	10.4655 hectares	
170 Brighton Road	Lot 1 Deposited Plan 20582	OT12C/262	4.2766 hectares	
170 Brighton Road	Section 81 Block VII Dunedin & East Taieri Survey District	OT15A/266	4401 square metres	
Total Area			75.6164 hectares	

Green Island Wastewater Treatment Plan Site (location of LFG engine and flare):

Site	Legal Description	Record of Title	Size of entire property	Owner
9 Brighton Road	Section 55 and 65 Block VII Dunedin & East Taieri Survey District	OT11B/1241	7.2122 hectares	Dunedin City Council
9 Brighton Road	Lot 30 Deposited Plan 24758	OT16C/1083	3.7127 hectares	
174 Brighton Road	Part Section 48 Deposited Plan 2323	OT166/158	2.1102 hectares	
174 Brighton Road	Lot 1 Deposited Plan 22230	OT14C/1027	7.1854 hectares	
Total Area			20.2205 hectares	