



**environment  
SOUTHLAND**

**Application No: S335-002  
Consent No: 202925**

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(Private Bag 90116)  
Invercargill

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## **Discharge Permit**

Pursuant to Section 104B of the Resource Management Act 1991, a resource consent is hereby granted by the Southland Regional Council to **South Pacific Meats Ltd** (the “consent holder”) of **P O Box 1774, Invercargill** from 4 July 2005.

**Please read this Consent carefully, and ensure that any staff or contractors carrying out activities under this Consent on your behalf are aware of all the conditions of the Consent.**

### **Details of Permit**

Purpose for which permit is granted:	To discharge contaminants to the air from a rendering plant, wastewater treatment plant, boiler and associated processes.
Location - site locality -	Bluff Highway, Awarua, near Colyer Road
- map reference -	E47:551-028
- receiving environment -	Air
Legal description of land at the site:	Lot 1 DP 338583 CT 158860 Sld Registry
Expiry date:	30 June 2035

### **Consent Amended**

Conditions amended on 28 May 2008 as follows:

### **Schedule of Conditions**

1. This resource consent:
  - (a) shall expire on 30 June 2035; and
  - (b) shall lapse if not given effect by 30 June 2010.

*(Note: Pursuant to Sections 123 and 124 of the Resource Management Act 1991, a new consent will be required at the expiration of this consent. The application will be considered in accordance with the plans in effect at that time, and the adverse effects of the proposed activity).*

2. The discharge shall only be contaminants from a rendering plant processing up to 5,000 kg of raw material per hour, collection and treatment of wastewater from rendering and meat processing and dairy processing, a coal-fired boiler having a net heat output of up to 4 megawatts, and associated processes as described in the application for consent. These associated processes include the combustion of wastewater treatment gases in either a flare or boiler.
3.
  - (a) Only fresh raw material, or material appropriately stabilised in a fresh condition, shall be processed in the rendering plant.
  - (b) Raw material for rendering shall not be held on-site for more than 24 hours.
  - (c) No fish waste or fish by-products shall be processed in the rendering plant.
4. The air within the rendering plant building shall be maintained at negative pressure at all times during processing such that all ventilation air is discharged via a bio-filter, as described in the application.
5. The bio-filter shall be capable of treating at least 10 air changes per hour from the rendering plant, shall have a media bed depth of at least 1.2 m and shall have a design loading of at least 80 m<sup>3</sup> air/m<sup>2</sup> filter surface area/hour. Design plans for the bio-filter shall be provided to the Southland Regional Council's Compliance Manager for approval, prior to construction.
6. Processing areas, collection sumps and traps serving the meat processing plant and rendering plant shall be cleaned at least daily to minimise odour emissions.
7. A gas-tight cover shall be fitted to the anaerobic lagoon such that all gases are discharged to either the boiler or the flare for combustion. The cover shall be maintained at all times to ensure that no gas leakage occurs.
8. The maximum coal burning rate boiler shall not exceed 1280 kilograms of coal per hour.
9. The opacity of emissions from the chimney stack of the coal-fired boiler shall not be darker than Ringelmann Shade 1 as described in New Zealand Standard 5201:1973 except:
  - (a) in the case of a cold start, for a period not exceeding 30 minutes in the first hour of operation; and
  - (b) for a period not exceeding a total of four minutes in each succeeding hour of operation.
10.
  - (a) The discharge into air from the boiler shall occur via a stack at a height of at least 20 metres above ground level and at least 12 metres above the roof ridgeline of any adjacent building.

- (b) The discharge shall be directed vertically into air and shall not be impeded by any obstruction above the stack which decreases the vertical efflux velocity.
11. The discharge of sulphur dioxide shall not exceed a rate of 12 kilograms per hour. The discharge rate may be determined from the maximum burning rate and sulphur content of the coal. The consent holder shall provide records of the coal type burned in the boiler, including calorific value and maximum sulphur content, and calculation of the maximum sulphur dioxide emission rate based on that information. These records shall be provided to the Southland Regional Council's Compliance Manager at the time of any change to the coal type burned in the boiler, and otherwise at least once every 12 months.
12. (a) The concentration of particulate matter in combustion gas discharged from the coal-fired boiler chimney stack shall not exceed 250 milligrams per cubic metre adjusted to 0 degrees Celsius, dry gas basis, 101.3 kilopascals, and 8 percent oxygen or 12 percent carbon dioxide.
- (b) Any measurement to confirm compliance with the particulate concentration limit shall occur when the tested boiler is operating at greater than 75 percent of the maximum continuous rating. The method of sampling and analysis shall comply with ISO 9096:1992(E), and may include methods BS 6069: 1992, ASTM D3685-78, ASTM D3685M-92, AS 4323.2-1995, US EPA Method 5, US EPA Method 17 or an equivalent method that complies with the fundamental sampling requirements of ISO 9096:1992(E).
- (c) the consent holder shall measure the emissions of particulate matter in the combustion gas discharged from the coal-fired boiler chimney stack:
- (i) once within three to six months of commissioning of the boiler;
- (ii) at two yearly intervals thereafter. After at least two tests the frequency of this testing may be reduced with the written approval of the Southland Regional Council's Compliance Manager.
- (d) The results of the combustion gas measurements shall be reported to the Southland Regional Council's Compliance Manager within 20 working days of each test being completed.
13. The boiler stack shall be fitted with a source emission test port and safe access for testing, to the satisfaction of the Southland Regional Council's Compliance Manager.
14. The coal-fired boiler shall be serviced at least once every year, by a person competent in the servicing of such appliances. This servicing shall include: ash removal; adjustment if necessary of the fuel to air ratio to ensure compliance with condition (9); and measurement of the percentage of carbon monoxide, carbon dioxide and oxygen in the flue gases discharged. Service reports shall be prepared and retained, and copies shall be provided to the Southland Regional Council's Compliance Manager on request.
15. The flare shall be operated in accordance with the specifications described in the application. The flare shall be fitted with a continuous ignition system including spark igniter and back-up power supply and shall be operated to achieve a minimum combustion efficiency of 98%.

16. The total biochemical oxygen demand (BOD) load of wastewater entering the treatment plant for treatment shall not exceed 7,500kg/day.
17. The aerated pond shall be operated to maintain aerobic conditions at all times and minimise odour generation. Electrically powered floating aerators having a total output of at least 180 kilowatts shall be installed and shall be operated as required to comply with this condition.
18.
  - (a) All sludge generated by the treatment system, including DAF float solids, that are to be removed from the site shall be pumped directly to fully enclosed tankers for transport to disposal. If DAF solids are further processed on-site they shall be pumped in pipelines or otherwise transferred to processing in a manner that ensures there will be no odour.
  - (b) Under no circumstances shall sludge be handled, transferred or stored in open air such that odour may be detected beyond the site boundary.
19. The discharge of anaerobic wastewater into the aerated lagoon shall be via a submerged inlet at all times, including during initial filling of the aerated lagoon with wastewater.
20. The discharges shall not cause objectionable or offensive odour or particulate matter (including dust and smoke) to the extent that it causes an adverse effect beyond the boundary of the consent holder's property.
21. The consent holder shall prepare a site management plan and submit the plan to the Southland Regional Council's Compliance Manager for approval no later than three months from the completion of the commissioning of the plant. This management plan shall detail all actions to be taken to minimise odour and particulate matter emissions from the plant and to ensure compliance with the conditions of this consent.

The plan shall address:

- (a) bio-filter maintenance requirements;
- (b) operating procedures to minimise odour and particulate matter emissions from the rendering plant;
- (c) wastewater collection and treatment, including maximum holding times; and
- (d) boiler plant maintenance.

The management plan shall state the name and contact telephone number of all persons responsible for each action described in the plan and shall be updated at least annually to include staff changes. The plan shall be available for inspection at the consent holder's property at all times.

22. The consent holder shall maintain a record of all complaints relating to odour or particulate matter that are either received directly or notified by the Southland Regional Council. This record shall include:
  - (a) the location where the odour or particulate matter was detected by the complainant;
  - (b) the date and time when the odour or particulate matter was detected;
  - (c) a description of the wind speed and wind direction when the odour or particulate matter was detected by the complainant;

- (d) the most likely cause of the odour or particulate matter detected; and
- (e) any corrective action undertaken by the consent holder to avoid, remedy or mitigate the odour or particulate matter detected by the complainant.

Within 20 working days of any complaint, the consent holder shall notify the Southland Regional Council's Environmental Compliance Manager in writing of the response taken to remedy the cause of the complaint. The consent holder shall provide a copy of the complaints record to Southland Regional Council on request.

- 23. The consent holder shall pay Southland Regional Council administration and monitoring charges, collected in accordance with Section 36 of the Resource Management Act, payable in advance on the first day of July each year.
- 24. Southland Regional Council may, in accordance with the conditions of this resource consent and Sections 128 and 129 of the Resource Management Act 1991, serve notice of its intention to review the conditions of this consent, in the period 1 February to 31 August each year, for the purposes of:
  - (i) dealing with any adverse cumulative effects on the environment which may arise from the exercise of this consent;
  - (ii) complying with the requirements of a regional plan; or
  - (iii) requiring the consent holder to adopt the best practicable option to address any adverse odour effect.

for the **Southland Regional Council**

W J Tuckey  
**Director of Environmental Management**