

INVERCARGILL CITY COUNCIL

BYLAW 2017/1 – TRADE WASTE

The following Bylaw was duly made by the Invercargill City Council by:

- Resolution of Section 148 and 155, Local Government Act 2002 matters on 4 July 2017.
- Resolution to consult on the Draft Bylaw using the special consultative procedure on 4 July 2017.
- Resolution to adopt the Bylaw on 30 October 2017.
- Public Notice in the Southland Times on 11 November 2017.

THE COMMON SEAL of the INVERCARGILL
CITY COUNCIL was hereto affixed to the following
Bylaw (Bylaw 2017/1 – Trade Waste) at the
offices of and pursuant to the resolution of the
Invercargill City Council in the presence of:

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Mayor:

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Chief Executive:

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Invercargill City Council

Trade Waste Bylaw

2017

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1. INTRODUCTION

This bylaw regulates the discharge of Trade Waste to the sewerage system operated by the Invercargill City Council. This bylaw supersedes the Invercargill City Council Waste Bylaw 2007/1 – Trade Waste (incorporating Amendment that came into force on 1 January 2008)

1.1 Commencement and Application

This bylaw comes into force on 7 November 2017.

1.2 Review

Section 158 of the Local Government Act (LGA) requires regular review of all bylaws. The following bylaw is to be reviewed by 1 November 2027.

1.3 Scope of the Bylaw

1.3.1 *The bylaw provides for the:*

- (a) Acceptance of long-term, intermittent, or temporary discharge of Trade Waste to the sewerage system;
- (b) Establishment of three grades of Trade Waste: permitted, conditional and prohibited;
- (c) Evaluation of individual Trade Waste discharges to be against specified criteria;
- (d) Correct storage of materials in order to protect the sewerage system from spillage;
- (e) Installation of flow meters, samplers or other devices to measure flow and quality of the Trade Waste discharge;
- (f) Pre-treatment of waste before it is accepted for discharge to the sewerage system;
- (g) Sampling and monitoring of Trade Waste discharges to ensure compliance with the bylaw;
- (h) Invercargill City Council to accept or refuse a Trade Waste discharge;
- (i) Charges to be set to cover the cost of conveying, treating and disposing of, or reusing, Trade Waste and the associated costs of administration and monitoring;
- (j) Administrative mechanisms for the operation of the bylaw; and
- (k) Establishment of waste minimisation and management programmes (including sludges) for Trade Waste producers.

1.3.2 *Compliance with other Acts*

Nothing in this bylaw shall derogate from any of the provisions of The Health Act, The Health and Safety at Work Act, The Resource Management Act, The Building Act, The Hazardous Substances and New Organisms Act and its regulations or any other relevant statutory or regulatory requirements. In the event of any inconsistency between legislation the more stringent requirement applies.

1.3.3 *Trade Waste Premises and Other Users to Which the Bylaw Applies*

This bylaw shall apply to all trade premises within the Invercargill City Council where Trade Wastes are discharged or sought or likely to be discharged to the sewerage system operated by the Invercargill City Council or its agents. The bylaw shall also apply to tankered wastes collected for the purpose of discharge to the sewerage systems operated by the Invercargill City Council or its agents.

Pursuant to s. 196 of the Local Government Act the Invercargill City Council may refuse to accept any type of Trade Waste which is not in accordance with this bylaw

1.4 **Referenced Documents**

New Zealand Standards

| | |
|------------------|---|
| NZS 4304:2002 | Management of healthcare waste |
| NZS 5465:2001 | Self containment for motor caravans and caravans |
| NZS 8134.7:2010 | Health and Disability Services Standards - Pharmacy Services Standard |
| NZS 9201 22 1999 | Wastewater drainage |
| NZS 9201 23 2004 | Model general bylaws |

Joint Australian/New Zealand Standards

| | |
|---------------------|---|
| AS/NZS 5667:- - - - | Water quality – Sampling |
| Part 1:1998 | Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples |
| Part 10:1998 | Guidance on sampling of wastewaters |

British Standards

| | |
|------------------|---------------|
| BS 6068: - - - - | Water quality |
|------------------|---------------|

Building Act 2004

Hazardous Substances and New Organisms Act (HSNO) 1996 and associated Regulations

Health Act 1956

Health and Safety at Work Act 2015

Land Transport Rule Dangerous Goods 2005 Rule 45001

Local Government Act (LGA) 2002

Resource Management Act (RMA) 1993 and associated Regulations

Other Publications

American Water Works Association

Standard methods for the examination of water and wastewater Current Edition

Document available from American Water Works Association www.awwa.org

Building Industry Authority

New Zealand Building Code (NZBC) 1992 and Approved Documents

Document available from Building Industry Authority (BIA) www.bia.govt.nz

Ministry for the Environment (MfE) Landfill Waste Acceptance Criteria (2004) Module 2: Hazardous Waste Guidelines

The New Zealand Waste Strategy (2002)

Documents available from Ministry for the Environment New Zealand www.mfe.govt.nz

Ministry of Health (MoH Office of Radiation Safety)

CSP1 Code of safe practice for the use of unsealed radioactive materials (1996).

Document available from Ministry of Health www.health.govt.nz

Water New Zealand (NZWWA)
Guidelines for the Safe Application of Biosolids to Land in New Zealand (Current Edition) Liquid
and Hazardous Wastes Code of Practice (Current Edition)
Documents available from Water New Zealand www.waternz.org.nz

New Zealand Water Environment Research Foundation (NZWERF) New Zealand Municipal
Wastewater Monitoring Guidelines (2002)
Documents available from Water New Zealand www.waternz.org.nz

1.5 Definitions

For the purposes of this bylaw the following definitions shall apply:

ACCESS POINT is a place where access may be made to a Private Drain for inspection (including sampling or measurement), cleaning or maintenance. The location of the Access Point shall be in accordance with the New Zealand Building Code.

ANALYST means a testing laboratory approved in writing by an Authorised Officer on behalf of the Invercargill City Council.

APPROVAL or **APPROVED** means Approval or Approved in writing by Invercargill City Council, either by resolution of the Council or by an Authorised Officer.

AUTHORISED OFFICER means any officer appointed by the Territorial Authority (TA) as an enforcement officer under s. 177 of the Local Government Act 2002 as an enforcement officer with powers of entry as prescribed by sections (s. s) 171-174.

BIOSOLIDS means sewage sludge derived from a sewage treatment plant that has been treated and/ or stabilised to the extent that it is able to be safely and beneficially applied to land and does not include products derived solely from industrial wastewater treatment plants. The term Biosolid/Biosolids is used generically throughout this document to include products containing Biosolids (eg composts).

CHARACTERISTIC means any of the physical or chemical characteristics of a Trade Waste and may include the level of a characteristic.

CLEANER PRODUCTION means the implementation on trade premises, of effective operations, methods and processes appropriate to the goal of reducing or eliminating the quantity and toxicity of wastes. This is required to minimise and manage Trade Waste by:

- a) Using energy and resources efficiently, avoiding or reducing the amount of wastes produced;
- (b) Producing environmentally sound products and services;
- (c) Achieving less waste, fewer costs and higher profits.

COMPOSITE SAMPLE means a representative sample of trade waste effluent that is composed of several discrete samples taken over a defined period (usually up to 24 hours or the period of a single work shift) and composted into a single sample. The discrete samples shall be sampled based on a pre-set time intervals or a flow rated sampling procedure.

CONDENSING WATER or **COOLING WATER** means any water used in any trade, industry, or commercial process or operation in such a manner that it does not take up matter into solution or suspension.

CONDITIONAL TRADE WASTE means Trade Waste which has conditions placed upon the consent holder by the Invercargill City Council.

CONSENT means a consent in writing given by the Invercargill City Council and signed by an authorised officer authorising a person to discharge Trade Wastes to the sewerage system.

CONSENT HOLDER means the person occupying trade premises who has obtained a consent to discharge or direct the manner of discharge of Trade Waste from any premises to the Invercargill City Council sewerage system, and includes any person who does any act on behalf or with the express or implied consent of the consent holder (whether for reward or not) and any licensee of the consent holder.

CONTAMINANT includes any substance (including gases, odorous compounds, liquids, solids and micro-organisms) or energy (excluding noise) or heat, that either by itself, or in combination with the same, similar, or other substances, energy or heat –

- (a) When discharged into water, changes or is likely to change the physical, chemical, or biological condition of water; or
- (b) When discharged on to or into land or into air, changes or is likely to change the physical, chemical, or biological condition of the land or air on to or into which it is discharged;

or as described or contained in the Resource Management Act.

CONTINGENCY MANAGEMENT PROCEDURES means those procedures developed and used to avoid, remedy, or mitigate the actual and/or potential adverse effects of these activities on the environment from an unexpected or unscheduled event resulting in discharge, or potential discharge of Contaminants of concern into the sewerage system.

COUNCIL means the Invercargill City Council.

DISCONNECTION means the physical cutting and sealing of any of the Wastewater Authority's water services, utilities, drains or sewer for use by any person.

DISTRICT means the district of the Territorial Authority established under the LGA which has adopted this bylaw.

DOMESTIC SEWAGE means foul water (with or without matter in solution or suspension therein) discharged from premises used solely for residential purposes, or wastes of the same character discharged from other premises; but does not include any solids, liquids, or gases that may not lawfully be discharged into the sewerage system and may include geothermal water.

FOUL WATER means the discharge from any sanitary fixtures (any fixture which is intended to be used for sanitation – the term used to describe activities of washing and/or excretion carried out in a manner or condition such that the effect on health is minimised, with regard to dirt and infection) or sanitary appliance (an appliance which is intended to be used for sanitation which is not a sanitary fixture – included are machines for washing dishes and clothes).

GRAB SAMPLE means a single sample of trade waste effluent that is composed of single discrete sample.

HAZARDOUS WASTES means hazardous substances as defined by the Hazardous Substances and New Organisms Act 1996.

INFRINGEMENT means an offence as specified by this bylaw under s. s 243 and 259 of the LGA.

LABORATORY means the Invercargill City Council Water and Waste Testing Laboratory or other laboratory approved in writing by an Authorised Officer on behalf of the Invercargill City Council.

LONG TERM COUNCIL COMMUNITY PLAN (LTCCP) means a long term council community plan adopted under s. 93 of the LGA.

MANAGEMENT PLAN means the plan for management of operations on the premises from which Trade Wastes come, and may include provision for cleaner production, waste

minimisation, discharge, contingency management procedures, and any relevant industry Code of Practice.

MASS LIMIT means the total mass of any characteristic that may be discharged to the wastewater authority sewerage system over any stated period from any single point of discharge or collectively from several points of discharge.

MAXIMUM CONCENTRATION means the instantaneous peak concentration that may be discharged at any instant in time.

NORMATIVE means pertaining to, or implying, a norm or standard. The term “normative” has been used in this Standard to define the application of the Appendix to which it applies. A “normative” Appendix is an integral part of a Standard.

OCCUPIER means the person occupying trade premises connected to the sewerage system.

PERMITTED DISCHARGE means a Trade Waste discharge that has been approved by, or is acceptable to, the Wastewater Authority and as long as it has the physical and chemical characteristics which comply with the requirements of the wastewater authority standard as defined in Schedule 1A of this bylaw.

PERSON includes a corporation sole and also a body of persons whether incorporated or unincorporated.

POINT OF DISCHARGE is the boundary between the public sewer and a private drain but for the purposes of monitoring, sampling and testing, shall be as designated in the Trade Waste consent.

PRE-TREATMENT means any processing of Trade Waste designed to reduce or vary any characteristic in a waste before discharge to the sewerage system in order to comply with a Trade Waste consent.

PREMISES means either:

- (a) A property or allotment which is held under a separate certificate of title or for which a separate certificate of title may be issued and in respect to which a building consent has been or may be issued; or
- (b) A building that has been defined as an individual unit by a cross-lease, unit title or company lease and for which a certificate of title is available; or
- (c) Land held in public ownership (eg reserve) for a particular purpose; or
- (d) Individual units in buildings which are separately leased or separately occupied.

PRIVATE DRAIN means that section of drain between the premises and the point of connection to the Invercargill City Council sewerage system.

PROHIBITED TRADE WASTES means a Trade Waste that has prohibited characteristics as defined in Schedule 1B and does not meet the conditions of Schedule 1A. The waste is not acceptable for discharge into the Wastewater Authority’s system unless specifically approved by them as a conditional Trade Waste.

SCHEDULE OF RATES AND CHARGES means the list of items, terms and prices for services associated with the discharge of Trade Waste as approved by the Invercargill City Council.

SEWAGE means foul water and may include Trade Wastes.

SEWAGE SLUDGE means the material settled out and removed from sewage during the treatment process.

SEWER means the pipework drainage system that conveys sewage.

SEWERAGE SYSTEM means the collection, treatment and disposal of sewage and Trade Wastes, including all sewers, pumping stations, storage tanks, sewage treatment plants, outfalls, and other related structures operated by the Invercargill City Council and used for the reception, treatment and disposal of Trade Wastes.

SIGNIFICANT INDUSTRY is a term to indicate the relative size of a given industry compared to the capacity of the sewerage system (including sewage treatment plant) which services that industry. Industry size relates to volume and/or loads discharging into the sewerage system. Loads can be the conventional loadings of BOD₅ and SS or some other particular contaminant (eg boron, chromium) which will/may have an effect or the propensity to have an effect on the sizing of the sewerage system, the on-going system operation and/or the quality of the treated effluent that is discharged.

STORMWATER means surface water run-off resulting from precipitation.

TANKERED WASTE is water or other liquid, including waste matter in solution or suspension, which is conveyed by vehicle for disposal, excluding domestic sewage discharged directly from house buses, caravans, buses and similar vehicles.

TEMPORARY DISCHARGE means any discharge of an intermittent or short duration. Such discharges include the short-term discharge of an unusual waste from premises subject to an existing consent.

TERRITORIAL AUTHORITY (TA) means the Invercargill City Council.

TRADE PREMISES means:

- (a) Any premises used or intended to be used for any industrial or trade purpose; or
- (b) Any premises used or intended to be used for the storage, transfer, treatment, or disposal of waste materials or for other waste management purposes, or used for composting organic materials; or
- (c) Any other premises from which a contaminant is discharged in connection with any industrial or trade process;
- (d) Any other premises discharging other than domestic sewage;

and includes any land or premises wholly or mainly used for agricultural or horticultural purposes.

TRADE WASTE is any liquid, with or without matter in suspension or solution, that is or may be discharged from a trade premises to the Invercargill City Council sewerage system in the course of any trade or industrial process or operation, or in the course of any activity or operation of a like nature; and may include condensing or cooling waters; stormwater which cannot be practically separated, or domestic sewage.

TRADE WASTE OFFICER means any designated officer of the Invercargill City Council that has been given authority to maintain or oversee the operation of the Trade Waste Bylaw. The Trade Waste Officer shall be designated as such by the Invercargill City Director of Works and Services.

UNDESIRABLE EFFECT means any effect that may cause harm to the sewerage system, environment, or the health and safety of Invercargill City Council staff, Council's agents or the public.

WORKING DAY means any day of the week other than:

- (a) A Saturday, a Sunday, Waitangi Day, Good Friday, Easter Monday, Anzac Day, the Sovereign's birthday, Labour Day; and
- (b) A day in the period commencing with the 25th day of December in a year and ending with the 2nd day of January in the following year.

1.6 Abbreviations

| | |
|--------------------|---|
| \$/kg | dollars per kilogram |
| \$/m ³ | dollars per cubic metre |
| °C | degrees Celsius |
| ANZECC | Australian New Zealand Environment and Conservation Council |
| BOD ₅ | Biochemical Oxygen Demand (5 Day Carbonaceous) |
| Br ₂ | bromine |
| Cl ₂ | chlorine |
| CN | cyanide |
| COD | Chemical Oxygen Demand |
| DAF | dissolved air floatation |
| DP | deposited plan |
| DS | dry solids |
| F | fluoride |
| FOGs | fats, oils and greases |
| g/m ³ | grams per cubic metre (equivalent to mg/L or PPM) |
| GST | goods and services tax |
| H ₂ S | hydrogen sulphide |
| HAHs | halogenated aromatic hydrocarbons |
| HCHO | formaldehyde |
| HCN | hydrogen cyanide |
| hr | hour |
| HSNO | Hazardous Substances and New Organisms Act |
| ICC | Invercargill City Council |
| kg/day | kilogram per day |
| l | litre |
| l/s | litre per second |
| LGA | Local Government Act |
| LTCCP | Long Term Council Community Plan |
| m ³ | cubic metre |
| max | maximum |
| MBAS | methylene blue active substances |
| MfE | Ministry for the Environment |
| mg/l | milligram per litre (equivalent to g/m ³ or PPM) |
| ml/l | millilitre per litre |
| mm | millimetres |
| N | nitrogen |
| NH ₃ | ammonia |
| NH ₃ -N | ammoniacal nitrogen |
| P | phosphorus |
| PAHs | polycyclic (or polynuclear) aromatic hydrocarbons |
| PBBs | polybrominated biphenyls |
| PCBs | polychlorinated biphenyls |
| pH | measure of acidity/alkalinity |
| PPM | Parts per Million (equivalent to g/m ³ or mg/L) |
| RMA | Resource Management Act |
| s | second |
| s. | section |
| s. s | sections |
| SBR | sequencing batch reactor |
| SDS | safety data sheets |
| SO ₄ | sulphate |
| SS | suspended solids concentration |
| TAs | territorial authorities |
| UV | ultra violet |
| UVT | ultra violet transmission |
| WC | water closet |

1.7 **General**

- 1.7.1 In this bylaw one gender includes all genders, the singular includes the plural, and the plural includes the singular.
- 1.7.2 The word “shall” identifies a mandatory requirement for compliance with the Standard. The word “should” refers to practices which are advised or recommended.
- 1.7.3 The term “normative” has been used in this Standard to define the application of the Appendix to which it applies. A “normative” Appendix is an integral part of a Standard.

2. COMPLIANCE WITH THE BYLAW

2.1 Control of Discharges

2.1.1 *No person shall:*

- (a) Discharge, or allow to be discharged, any Trade Waste to the sewerage system except in accordance with the provisions of this bylaw;
- (b) Discharge, or allow to be discharged, a prohibited Trade Waste into the sewerage system;
- (c) Add or permit the addition of condensing or cooling water to any Trade Waste which discharges into the sewerage system unless specific approval is given in a consent; or
- (d) Add or permit the addition of stormwater to any Trade Waste which discharges into the sewerage system unless specific approval is given in a consent.

2.1.2 In the event of failure to comply with 2.1.1 (a) – (d) the Invercargill City Council may physically prevent discharge to the Sewerage System if an alternative action acceptable to the Invercargill City Council cannot be established with the discharging party or parties.

2.1.3 Any person discharging to the Invercargill City Council sewerage system shall also comply with requirements of the Hazardous Substances and New Organisms (HSNO) Act and the RMA.

2.2 Storage, Transport, Handling and use of Hazardous or Harmful Materials

- (a) All persons on trade premises shall take all reasonable steps to prevent the accidental entry of any of the materials listed in 2.2(c) of this bylaw from entry into the sewerage system as a result of leakage, spillage or other mishap.
- (b) No person shall store, transport, handle or use, or cause to be stored, transported, handled or used any hazardous substance as defined by HSNO or any of the materials listed in 2.2(c) in a manner that may cause the material to enter the sewerage system and cause harmful effects.
- (c) Materials referred to in 2.2 (a) and (b) are those:
 - (i) Products or wastes containing corrosive, toxic, biocidal, radioactive, flammable or explosive materials, and hazardous waste
 - (ii) Likely to generate toxic, flammable, explosive or corrosive materials in quantities likely to be hazardous, when mixed with the wastewater stream.
 - (iii) Likely to be deleterious to the health and safety of the Invercargill City Council staff, approved contractors and the public or be harmful to the sewerage system.
 - (iv) Substances likely to react with other Trade Waste or Foul Water to produce an undesirable effect.

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3. **TRADE WASTE DISCHARGES AND CONSENTS**

3.1 **Classification of Trade Waste Discharges**

3.1.1 *Trade Waste discharges shall be classified as one of the following types:*

- (a) Permitted (consent not usually required, but trade waste must comply with the conditions of the current ICC Trade Waste Bylaw). In some circumstances the Invercargill City Council may require a Trade Waste Consent for a Permitted discharge.
- (b) Conditional (consent required due to characteristics of the discharge); or
- (c) Prohibited (not consentable).

NOTE – See the definitions in 1.5.

3.1.2 The Invercargill City Council is not obliged to accept any Trade Waste. No application for a Trade Waste consent shall be approved where the Trade Waste discharge would contain, or is likely to contain, characteristics which are prohibited. (See Schedule 1B – Prohibited Characteristics.)

3.1.3 No person shall discharge, or cause to be discharged, any Trade Waste to the Invercargill City Council sewer except in accordance with the provisions of this bylaw.

3.2 **Application for a Trade Waste Consent**

3.2.1 *Formal application*

Required by every person who does, proposes to, or is likely to:

- (a) Discharge into the sewerage system any Trade Waste (either continuously, intermittently or temporarily); or
- (b) Vary the characteristics of a consent to discharge that has previously been granted; or
- (c) Vary the conditions of consent to discharge that has previously been granted; or
- (d) Significantly change the method or means of pre-treatment for discharge under an existing consent shall if required by the Invercargill City Council to complete an application in the prescribed form for the consent of the Invercargill City Council (see Appendix A), to the discharge of that Trade Waste, or to the proposed variations.

3.2.2 The Invercargill City Council reserves the right to deal with the owner as well as the occupier of any trade premises.

3.2.3 Where the trade premises produces Trade Waste from more than one area, a separate copy of the "Application for trade Waste Discharge" (Appendix A) shall be included in any application for Trade Waste discharge for each area.

3.2.4 The applicant shall ensure that the application and every other document conveying required information is properly executed and any act done for, or on behalf of, the eventual consent holder (whether for reward or not) in making any such application shall be deemed to be an act of the consent holder.

3.2.5 The Invercargill City Council may require an application to be supported by an independent report/statement completed by a suitably experienced and external auditor to verify any or all information supplied by the applicant, and this may include a management plan.

3.2.6 Every application shall be accompanied by a Trade Waste application fee in accordance with the Invercargill City Council Schedule of Rates and Charges.

3.3 Processing of an Application

The Invercargill City Council shall acknowledge the application in writing or electronically within 10 working days of the receipt of the application.

3.4 Information and Analysis

3.4.1 *On the receipt of any application for a Trade Waste consent to discharge from any premises or to alter an existing discharge, the Invercargill City Council may:*

- (a) Require the applicant to submit any additional information which it considers necessary to reach an informed decision;
- (b) Require the applicant to submit a management plan to the satisfaction of the Invercargill City Council for applications with discharges that have large volumes, or containing hazardous or high strength material;
- (c) Whenever appropriate have the discharge investigated and analysed as provided for in 5.1 and 5.3 of this bylaw.

3.4.2 The Invercargill City Council shall notify the applicant of any requirement under this clause within 10 working days of receipt of the application.

3.5 Consideration of an Application

Within 15 working days (or extended as necessary by the Invercargill City Council) of receipt of an application complying with this bylaw and/or all requirements under 3.4, whichever is the later, the WWA shall, after considering the matters in 3.6 action one of the following in writing:

- (a) Grant the application as a permitted Trade Waste and inform the applicant of the decision by issuing the appropriate notice;
- (b) Grant the application as a conditional Trade Waste discharge consent and inform the applicant of the decision and the conditions imposed on the discharge by issuing the appropriate notice of consent to the discharge; or
- (c) Decline the application and notify the applicant of the decision giving a statement of the reasons for refusal.

3.6 Consideration Criteria

In considering any application for a Trade Waste consent to discharge from any trade premises or tankered waste into the sewerage system and in imposing any conditions on such a consent, the Invercargill City Council shall take into consideration the quality, volume, and rate of discharge of the Trade Waste from such premises or tanker in relation to:

- (a) The health and safety of Invercargill City Council staff, Council's agents or the public;
- (b) The limits and/or maximum values for characteristics of Trade Waste as specified in Schedules 1A and 1B of this bylaw;
- (c) The extent to which the Trade Waste may react with other Trade Waste or foul water to produce an undesirable effect, eg settlement of solids, production of odours, accelerated corrosion and deterioration of the sewerage system etc;
- (d) The flows and velocities in the sewer, or sewers and the material or construction of the sewer or sewers;
- (e) The capacity of the sewer or sewers and the capacity of any sewage treatment works, and other facilities;

- (f) The nature of any sewage treatment process and the degree to which the Trade Waste is capable of being treated in the sewage treatment works;
- (g) The timing and balancing of flows into the sewerage system;
- (h) Any statutory requirements relating to the discharge of raw or treated wastewater to receiving waters, the disposal of sewage sludges, beneficial use of biosolids, and any discharge to air, (including the necessity for compliance with any resource consent, discharge permit or water classification);
- (i) The effect of the Trade Waste discharge on the ultimate receiving environment;
- (j) The conditions on resource consents for the sewerage system and the residuals from it;
- (k) The possibility of unscheduled, unexpected or accidental events and the degree of risk these could cause to humans, the sewerage system and the environment;
- (l) Consideration for other existing or future discharges;
- (m) Amenability of the Trade Waste to pre-treatment;
- (n) Existing pre-treatment works on the premises and the potential for their future use;
- (o) Cleaner production techniques and waste minimisation practices;
- (p) Requirements and limitations related to sewage sludge disposal and reuse;
- (q) Control of stormwater;
- (r) Management plan; and
- (s) Tankered waste being discharged at an approved location/s.

3.7 **Conditions of Trade Waste Consent**

Any Trade Waste consent to discharge may be granted subject to such conditions that the Invercargill City Council may impose, including but not limited to:

- (a) The particular public sewer or sewers to which the discharge will be made;
- (b) The maximum daily volume of the discharge and the maximum rate of discharge, and the duration of maximum discharge;
- (c) The maximum limit or permissible range of any specified characteristics of the discharge, including concentrations and/or mass limits determined in accordance with 3.8;
- (d) The period or periods of the day during which the discharge, or a particular concentration, or volume of discharge may be made;
- (e) The degree of acidity, or alkalinity of the discharge at the time of discharge;
- (f) The temperature of the Trade Waste at the time of discharge;
- (g) The provision by, or for the consent holder, at the consent holder's expense, of screens, grease traps, silt traps or other pre-treatment works to control Trade Waste discharge characteristics to the consented levels;
- (h) The provision and maintenance at the consent holder's expense of inspection chambers, manholes or other apparatus or devices to provide reasonable access to drains for sampling and inspection;

- (i) The provision and maintenance of a sampling, analysis and testing programme and flow measurement requirements, at the consent holder's expense;
- (j) The method or methods to be used for the measuring flow rates and/or volume and taking samples of the discharge for use in determining the amount of any Trade Waste charges applicable to that discharge;
- (k) The provision and maintenance by, and at the expense of, the consent holder of such meters or devices as may be required to measure the volume or flow rate of any Trade Waste being discharged from the premises, and for the testing of such meters;
- (l) The provision and maintenance, at the consent holder's expense of such services, (whether electricity, water or compressed air or otherwise), which may be required, in order to operate meters and similar devices;
- (m) At times specified, the provision in a Invercargill City Council approved format by the consent holder to the Invercargill City Council of all flow and/or volume records and results of analyses (including pre-treatment by-products eg sewage sludge disposal);
- (n) The provision and implementation of a management plan;
- (o) Risk assessment of damage to the environment due to an accidental discharge of a chemical;
- (p) Waste minimisation and management;
- (q) Cleaner production techniques;
- (r) Remote control of discharges;
- (s) Third party treatment, carriage, discharge or disposal of by-products of pre-treatment of Trade Waste (including sewage sludge disposal);
- (t) Requirement to provide a bond or insurance in favour of the Invercargill City Council where failure to comply with the consent could result in damage to the Invercargill City Council sewerage system, its treatment plants, or could result in the Invercargill City Council being in breach of any statutory obligation; and
- (u) Remote monitoring of discharges.

3.8 **Duration**

3.8.1 *Permitted discharges*

Permitted discharges shall remain in force indefinitely until either:

- (a) Cancellation under 2.1.2 or 3.10;
- (b) The quantity and nature of the discharge changes significantly. For a temporary discharge see Appendix B;
- (c) If in the opinion of the Invercargill City Council the discharge changes or is likely to change to such an extent that it becomes a conditional or prohibited Trade Waste;
- (d) The Invercargill City Council changes the Trade Waste management procedures by implementation of changed Trade Waste bylaw conditions or any amendment to, or replacement of, its Trade Waste bylaw; or
- (e) The conditions on resource consents for the sewerage system and the residuals from it change. In all cases, after appropriate consultation, the person shall apply within 10 working days of this change occurring for a conditional consent, in accordance with 3.2 of this bylaw. This application shall be approved prior to the occurrence of any new

discharge.

3.8.2 *Conditional discharges (consents)*

Subject to 3.10 and 6.1 conditional consents under this bylaw shall expire at the end of a term fixed by the WWA subject to the following:

- (a) Conditional consents may be given for a term not exceeding five years to a consent holder who at the time of application satisfies the Invercargill City Council that:
 - (i) The nature of the trade activity, or the process design and/or management of the premises are such that the consent holder has a demonstrated ability to meet the conditions of the consent during its term; and/or
 - (ii) Cleaner production techniques are successfully being utilised, or that a responsible investment in cleaner production equipment or techniques is being made; and/or
 - (iii) Significant investment in pre-treatment facilities has been made, such that a longer period of certainty for the amortising of this investment is considered reasonable; and/or
 - (iv) The reissuing of a consent can not be unreasonably withheld.

Notwithstanding the above the Invercargill City Council retains the right to review the conditions at an earlier time. The reasons for such an earlier review could include:

- (A) The level of consent holder compliance, including any accidents including spills or process mishaps. (Refer Section 6.2 – Accidents and Non-Compliance.)
 - (B) Matters pertaining to the Invercargill City Council resource consents for the sewerage system.
 - (C) Matters pertaining to the Invercargill City Council environmental policies and outcomes.
 - (D) New control and treatment technologies and processes.
 - (E) Any of the matters outlined in section 4.
 - (F) Matters pertaining to the Invercargill City Council legal obligations.
- (b) In circumstances where a trade waste discharge is determined by the Invercargill City Council to be a Temporary Discharge, a Temporary Conditional Consent may be granted. Temporary Conditional Consents will be granted for the minimal, but reasonable period not usually exceeding 12 months.
 - (c) In all other cases the term of a conditional Trade Waste consent should not exceed five years;
 - (d) In all cases where either the consent holder or the owner of the premises changes, or there is a change of use, a new application for a conditional Trade Waste consent shall be made. It shall be the responsibility of the consent holder to lodge the new application; and
 - (e) The conditions on resource consents for the sewerage system and the residuals from it change.

3.9 **Technical Review and Variation**

3.9.1 The Invercargill City Council at any time may require a person undertaking a permitted discharge to apply for a consent in accordance with 3.8.1.

3.9.2 The Invercargill City Council may at any time during the term of a Trade Waste consent, by written notice to the consent holder (following a reasonable period of consultation), vary any condition to such an extent as the Invercargill City Council considers necessary following a review of the technical issues considered when setting conditions of consent. This is due to new information becoming available or to meet any new resource consent imposed on the discharge from the Invercargill City Council treatment plant, or with any other legal requirements imposed on the Invercargill City Council.

3.9.3 A consent holder may at any time during the term of a consent, by written application to the Invercargill City Council, seek to vary any condition of consent, as provided for in 3.7 of this bylaw.

3.10 **Cancellation of the Right to Discharge**

3.10.1 *Suspension or cancellation on notice*

The Invercargill City Council may suspend or cancel any consent or right to discharge at any time following 20 working days' (during which consultation has occurred) notice to the consent holder or person discharging any Trade Waste:

- (a) For the failure to comply with any condition of the consent;
- (b) For the failure to maintain effective control over the discharge;
- (c) For the failure to limit in accordance with the requirements of a consent the volume, nature, or composition of Trade Waste being discharged;
- (d) In the event of any negligence which, in the opinion of the Invercargill City Council, threatens the safety of, or threatens to cause damage to any part of the sewer system or the treatment plant or threatens the health or safety of any person;
- (e) If any occurrence happens that, in the opinion of the Invercargill City Council, poses a serious threat to the environment.
- (f) In the event of any breach of a resource consent held by the Council issued under the Resource Management Act 1993.
- (g) Failure to provide and when appropriate update a management plan as required for a conditional consent;
- (h) Failure to follow the management plan provisions at the time of an unexpected, unscheduled or accidental occurrence;
- (i) Failure to pay any charges under this bylaw; or
- (j) If any other circumstances arise which, in the opinion of the Invercargill City Council, render it necessary in the public interest to cancel the right to discharge.

If any process changes require more than 20 Working Days, reasonable time may be given to comply with the Consent conditions.

3.10.2 *Summary cancellation*

Further to 3.10.1 any Trade Waste consent or discharge may at any time be summarily cancelled by the Invercargill City Council on giving to the Consent Holder or Person discharging written notice of summary cancellation if:

- (a) They discharge any Prohibited substance;
- (b) The Invercargill City Council is lawfully directed to withdraw or otherwise to terminate the Consent summarily;
- (c) They discharge any Trade Waste unlawfully;
- (d) If the continuance of discharge is, in the opinion of the Invercargill City Council, a threat to the environment or public health;
- (e) If the continuance of discharge may, in the opinion of the Invercargill City Council, result in a breach of a Resource Consent held by the Invercargill City Council; or
- (f) In the opinion of the Invercargill City Council the continuance of the discharge puts at risk the ability of the Invercargill City Council to comply with conditions of a Resource Consent and/or requires identified additional treatment measures or costs to seek to avoid a breach of any such Resource Consent.

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4. TRADE WASTE APPROVAL CRITERIA

4.1 Pre-Treatment

The Invercargill City Council may approve a Trade Waste discharge (see Appendix C for appropriate form) subject to the provision of appropriate pre-treatment systems to enable the person discharging to comply with the bylaw. Such pre-treatment systems shall be provided, operated and maintained by the person discharging at their expense.

Refuse or garbage grinders, and macerators shall not be used to dispose of solid waste from trade premises to the sewerage system unless approved by the Invercargill City Council.

The person discharging shall not, unless approved by the Invercargill City Council, add or permit the addition of any potable, condensing, cooling water or stormwater to any Trade Waste stream in order to vary the level of any characteristics of the waste.

NOTE – Condensing and cooling water cannot be discharged as of right to a stormwater drain or natural waterway without the consent of the appropriate authority.

4.2 Mass Limits

A conditional Trade Waste consent to discharge may impose controls on a Trade Waste discharge by specifying mass limits for any characteristic.

Mass limits may be imposed for any characteristic. Any characteristic permitted by mass limit shall also have its maximum concentration limited to the value scheduled unless approved otherwise.

When setting mass limit allocations for a particular characteristic the Invercargill City Council shall consider:

- (a) The operational requirements of and risk to the sewerage system, and risks to occupational health and safety, public health, and the ultimate receiving environment;
- (b) Whether or not the levels proposed pose a threat to the planned or actual beneficial reuse of biosolids or sewage sludge;
- (c) Conditions in the sewerage system near the Trade Waste discharge point and elsewhere in the sewerage system;
- (d) The extent to which the available industrial capacity was used in the last financial period and is expected to be used in the forthcoming period;
- (e) Whether or not the applicant uses cleaner production techniques within a period satisfactory to the Invercargill City Council;
- (f) Whether or not there is any net benefit to be gained by the increase of one characteristic concurrently with the decrease of another to justify any increased application for industrial capacity;
- (g) Any requirements of the Invercargill City Council to reduce the pollutant discharge of the sewerage system;
- (h) How great a proportion the mass flow of a characteristic of the discharge will be of the total mass flow of that characteristic in the sewerage system;
- (i) The total mass of the characteristic allowable in the sewerage system, and the proportion (if any) to be reserved for future allocations; and
- (j) Whether or not there is an interaction with other characteristics which increases or decreases the effect of either characteristic on the sewer reticulation, treatment process, or receiving water (or land).

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5. **SAMPLING, TESTING AND MONITORING**

5.1 **Flow Metering**

5.1.1 *Flow metering may be required by the Invercargill City Council:*

- (a) On discharges when there is not a reasonable relationship between a metered water supply to the premises, and the discharge of Trade Waste;
- (b) When the Invercargill City Council will not approve a method of flow estimation; or
- (c) When the discharge represents a significant proportion of the total flow/load received by the Invercargill City Council.

5.1.2 The consent holder shall be responsible for the supply, installation, reading and maintenance of any meter required by the Invercargill City Council for the measurement of the rate or quantity of discharge of Trade Waste. These devices shall be subject to the approval of the Invercargill City Council, but shall remain the property of the consent holder.

5.1.3 Records of flow and/or volume shall be available for viewing at any time by the Invercargill City Council, and shall be submitted to the Invercargill City Council at prescribed intervals by the consent holder in a format approved by the Invercargill City Council.

5.1.4 Meters shall be located in a position approved by the Invercargill City Council which provides the required degree of accuracy and should be readily accessible for reading and maintenance. The meters shall be located in the correct position according to the manufacturer's installation instructions.

5.1.5 The consent holder shall, if required, arrange for *in situ* calibration of the flow metering equipment and instrumentation by a person and method approved by the Invercargill City Council upon installation and at least once a year thereafter to ensure its performance. The meter accuracy should be $\pm 10\%$ but with no greater a deviation from the previous meter calibration of $\pm 5\%$. A copy of independent certification of each calibration result shall be submitted to the Invercargill City Council.

5.1.6 Should any meter, after being calibrated, be found to have an error greater than that specified in 5.1.5 as a repeatable measurement, the Invercargill City Council may make an adjustment in accordance with the results shown by such tests back-dated for a period at the discretion of the Invercargill City Council but not exceeding 12 months, and the consent holder shall pay or be credited a greater or lesser amount according to such adjustment.

5.2 **Estimating Discharge**

5.2.1 Where no meter or similar apparatus is warranted, the Invercargill City Council may require that a percentage of the water supplied to the premises (or other such basis as seems reasonable) be used for estimating the rate or quantity of flow for the purposes of charging.

5.2.2 Should any meter be out of repair or cease to register, or be removed, the Invercargill City Council shall estimate the discharge for the period since the previous reading of such meter, (based on the average of the previous 12 months charged to the person discharging) and they shall pay according to such estimate. Provided that when by reason of a large variation of discharge due to seasonal or other causes, the average of the previous 12 months would be an unreasonable estimate of the discharge, then the Invercargill City Council may take into consideration other evidence for the purpose of arriving at a reasonable estimate, and the person discharging shall pay according to such an estimate.

5.2.3 Where in the opinion of the Invercargill City Council, a meter has been tampered with, the Invercargill City Council (without prejudice to the other remedies available) may declare the reading void and estimate discharge as provided above.

5.3 **Sampling and Analysis**

5.3.1 *As determined by the Invercargill City Council sampling, testing and monitoring may be undertaken to determine if:*

- (a) A discharge complies with the provisions of this bylaw;
- (b) A discharge is to be classified as a permitted, conditional, or prohibited, refer to 3.1;
- (c) A discharge complies with the provisions of Schedule 1A for permitted discharge and any consent to discharge; and
- (d) Trade Waste consent charges are applicable to that discharge.

5.3.2 The taking, preservation, transportation and analysis of the sample shall be undertaken by an authorised officer or agent of the Invercargill City Council. The person discharging shall be responsible for all reasonable costs. Where a dispute arises as to the validity of the methods or procedures used for sampling or analysis, the dispute may be submitted to a mutually agreed independent arbitrator.

5.3.3 All authorised officers or authorised agents of the Invercargill City Council, may enter any premises believed to be discharging Trade Waste at any time in order to determine any characteristics of any actual or potential discharge by:

- (a) Taking readings and measurements;
- (b) Carrying out an inspection; and/or
- (c) Taking samples for testing,

of any solid, liquid, or gaseous material or any combination or mixture of such materials being discharged.

Authorisation for entry to Premises is given under the LGA and entry shall be in compliance with the health and safety policies of that particular site.

5.4 **Monitoring**

5.4.1 *Monitoring for compliance*

The Invercargill City Council is entitled to monitor and audit any Trade Waste discharge for compliance. Whether for a permitted discharge or a conditional consent discharge monitoring may be carried out as follows:

- (a) The Invercargill City Council, or its authorised agent, will take the sample and arrange for this sample to be analysed by the Invercargill City Council or approved laboratory by agreed/approved analytical methods;
- (b) The sampling procedure will be appropriate to the Trade Waste and the analysis;
- (c) Analysis shall use methods in accordance with, or validated against the current edition of *AWWA Standard Methods for the Examination of Water and Wastewater*, and will be performed by the Invercargill City Council or approved laboratory. Inter-laboratory checks may be part of this process.
- (d) The Invercargill City Council will audit the Trade Waste consent conditions including any management plans.

All costs of monitoring shall be met by the discharger either through direct payment to the Invercargill City Council, its authorised agent, or approved laboratory.

5.4.2 *Sampling methodology*

Normally a single grab or composite sample is sufficient (excepting in circumstances of the use of an approved laboratory due to either routine sampling or sampling arising due to dispute).

If required for audit purposes, the sample may be evenly split, with one third of the sample retained by the Invercargill City Council for 20 working days, for additional analysis if required

In all cases the samples shall be handled in an appropriate manner such that the Characteristics being tested for are, as far as reasonably possible, preserved.

All samples shall be preserved, handled, transported and delivered to the Invercargill City Council laboratory according to best possible practice and Approved standards.

5.4.3 *Tankered wastes*

Tankered Wastes shall not be discharged into the Invercargill City Council sewerage System by any Person or Consent Holder not compliant with the terms and conditions of the current Invercargill City Council Permitted Liquid Tankered Waste Streams Policy.

The Invercargill City Council may accept Tankered Wastes for discharge at an Approved location. Tankered Wastes shall:

- (a) Be transported by a Consent Holder or agent approved by the Invercargill City Council to discharge domestic septic tank or industrial wastes;
- (b) Have safety data sheets (SDS) supplied to the Invercargill City Council detailing the contents of a waste;
- (c) Be tested to determine their character if the contents of the waste are not known. Specialist advice on pre-treatment or acceptance may be required. The cost of all testing and advice shall be borne by the Consent Holder;
- (d) Not be picked up and transported to the disposal site until appropriate arrangements and method for disposal have been determined by the Invercargill City Council;
- (e) If required by the Invercargill City Council to prevent cross-contamination between tanker loads, the tanker shall be thoroughly washed prior to collecting a load for disposal into the sewerage System; and
- (f) Have notice as indicated by the Invercargill City Council Permitted Liquid Tankered Waste Streams Policy given for the disposal of wastes other than those sourced from domestic septic tanks.

Any Person illegally disposing of, or causing to be disposed, Tankered Waste either by incorrect disclosure of contents (Characteristics and/or amount) or dumping into the Invercargill City Council Sewerage System other than the prescribed location will be in breach of the bylaw.

5.4.4 *Disinfected/super chlorinated water*

Any water used during the repair and construction of water mains shall, if required by the Invercargill City Council, be de-chlorinated prior to the discharge into the sewerage System. Permission for the discharge of such water to the sewerage system shall be sought from a Trade Waste Officer. Permission should not be duly withheld. Such water shall not be disposed of to Stormwater or adjacent water courses without appropriate approvals.

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6. **BYLAW ADMINISTRATION**

6.1 **Review of Decisions**

If any person is dissatisfied with any decision by an Authorised Officer made under this bylaw, that Person may, by notice delivered to the Chief Executive Officer of the Invercargill City Council not later than 20 Working Days after the decision by the Authorised Officer is served upon that Person, request the Chief Executive Officer to review any such decision and such a decision shall be final.

Nothing in this clause shall affect any right of appeal under the LGA.

6.2 **Accidents and Non-Compliance**

The Person discharging shall inform the Invercargill City Council immediately on discovery of any accident including spills or process mishaps which may cause a breach of this bylaw.

In the event of any accident occurring when the Person holds a conditional or temporary Consent, then the Invercargill City Council may review the Consent under 3.9 or may require the Consent Holder, within 20 Working Days of the date such requirement is notified to the Consent Holder in writing, to review the Contingency Management Procedures and re-submit for Approval the Management Plan with the Invercargill City Council.

In the event of an accident occurring on the premises of a Permitted Discharge, the Invercargill City Council may require the Person discharging to apply for a conditional Consent.

6.3 **Charges and Payments**

6.3.1 *Charges*

The Invercargill City Council may recover fees and charges in accordance with the LGA. Schedule 1C outlines a regime of charges.

6.3.2 *Invoicing*

All charges determined in accordance with 6.3.1 shall be invoiced in accordance with Invercargill City Council standard commercial practice. The invoice shall provide each Person discharging with a copy of the information and calculations used to determine the extent of any charges and fees due, in regard to a discharge.

6.3.3 *Cease to discharge*

The Person discharging shall be deemed to be continuing the discharge of Trade Waste and shall be liable for all charges, until notice of Disconnection is given.

6.3.4 *Failure to pay*

All fees and charges payable under this bylaw shall be recoverable as a debt. If the Person discharging fails to pay any fees and charges under this bylaw the Invercargill City Council may cancel the right to discharge in accordance with 3.10.

6.3.5 *Recovery of costs*

The Invercargill City Council may recover costs under LGA relating to s. 150 and s. 151, wilful damage or negligent behaviour (s. 175) and remedying damage arising from breach of bylaw (s. 176).

6.3.6 *Over limit discharges*

In any billing period, or part thereof, should the Trade Waste exceed one or more of the limits specified in the trade waste consent then the fees payable shall be modified using the percentage read from Table 1C.F using the largest ratio as defined in Table 1C.E. This clause shall apply whether or not the Invercargill City Council has invoked the notice of clause 3.10. The Invercargill City Council may also charge an Over Limit Fee – see Table 1C.A.

6.4 **Authorised Officers**

All Authorised Officers of the Invercargill City Council, or other Persons authorised under s. 174 or s. 177 or paragraph 32 of schedule 7 of the LGA, shall possess and produce on request warrants of authority and evidence of identity.

Any Authorised Officers may at any reasonable time enter any Premises believed to be discharging Trade Wastes to determine any Characteristic of any discharge by:

- (a) Taking readings and measurements; or
- (b) Taking samples or any solids, liquids or gaseous material or any combination or mixtures of such materials being discharged; or
- (c) Observing accidental occurrences and clean-up.

The extent and level of delegation to Authorised Officers will be in accordance with the Council's Register of Statutory Delegations and Warrants.

Authorisation for entry to Premises is given under the LGA and entry shall be in compliance with the health and safety policies of that particular site.

6.5 **Transfer or Termination of Rights and Responsibilities**

6.5.1 A Trade Waste consent to discharge shall be issued in the name of the given consent holder. The consent holder shall not, unless written approval is obtained from the Invercargill City Council:

- (a) Transfer to any other party the rights and responsibilities provided for under this bylaw, and under the Consent;
- (b) Allow a Point of Discharge to serve another Premises, or the Private Drain to that point to extend by pipe or any other means to serve another Premises; or
- (c) In particular and not in limitation of the above, allow Sewage from any other party to be discharged at their Point of Discharge.

NOTE – This clause does not relate to Permitted Discharges.

6.5.2 Renewal of a Trade Waste Consent on change of ownership of Premises shall not be unreasonably withheld if the Characteristics of the Sewage remain unchanged.

NOTE – This clause does not relate to Permitted Discharges.

6.5.3 The Person discharging shall give 48 hours notice in writing to the Invercargill City Council of their requirement for Disconnection of the discharge connection and/or termination of the discharge Consent, except where demolition or relaying of the discharge drain is required, in which case the notice shall be within seven Working Days. The Person discharging shall notify the Invercargill City Council of the new address details for final invoicing. On permanent Disconnection and/or termination the Person discharging may at the Invercargill City Council discretion be liable for Trade Waste charges to the end of the current charging period.

6.5.4 When a Person discharging ceases to occupy Premises from which Trade Wastes are discharged into the sewerage System any Consent granted shall terminate but without relieving

the Person discharging from any obligations existing at the date of termination.

6.6 **Service of Documents**

6.6.1 *Delivery or post*

Any notice or other document required to be given, served or delivered under this bylaw to a Person discharging may (in addition to any other method permitted by law) be given or served or delivered by being:

- (a) Sent by pre-paid ordinary mail, courier, or facsimile, or email to the Person discharging at the Person discharging's last known place of residence or business; or,
- (b) Sent by pre-paid ordinary mail, courier, or facsimile, or email to the Person discharging at any address for service specified in a Consent to discharge; or,
- (c) Where the Person discharging is a body corporate, sent by pre-paid ordinary mail, courier, or facsimile, or email to, or left at its registered office; or
- (d) Personally served on the Person discharging.

6.6.2 *Service*

If any notice or other document is:

- (a) Sent by post it will be deemed received on the first week (excluding weekends and public holidays) after posting;
- (b) Sent by facsimile or email and the sender's facsimile or email machine produces a transmission report indicating that the facsimile or email was sent to the addressee, the report will be prima facie evidence that the facsimile or email was received by the addressee in a legible form at the time indicated on that report; or
- (c) Sent by courier and the courier obtains a receipt or records delivery on a courier run sheet, the receipt or record of delivery on a courier run sheet will be prima facie evidence that the communication was received by the addressee at the time indicated on the receipt or courier run sheet, or left at a conspicuous place at the Trade Premises or is handed to a designated Person(s) nominated by the Consent Holder then that shall be deemed to be service on, or delivery to the Consent Holder at that time.

NOTE – It should be verified that notice has been served on the correct Person.

6.7 **Offences**

Every person or consent holder or owner or occupier of trade premises who:

- (a) Fails to comply with or acts in contravention of any provision of this bylaw;
- (b) Breaches the conditions of any Consent to discharge granted pursuant to this bylaw; or
- (c) Fails to comply with a notice served under this bylaw,

Commits an offence under s. 239 of the LGA, and is liable to a fine as specified in s. 242 of the LGA, or the issue of an Infringement notice under s. 245 of the LGA.

In all cases the Invercargill City Council may recover costs associated with damage to the Invercargill City Council sewerage system and/or breach of this bylaw in accordance with s. 175 and s. 176 of the LGA respectively.

6.8 **Transitional Provisions**

6.8.1 *Applications*

Any application for a consent to discharge Trade Waste made under the Invercargill City Council 2007/1 – Trade Waste (incorporating Amendment that came into force on 1 January 2008) for which a consent has not been granted at the time of this new bylaw coming into force shall be deemed to be an application made under 3.2 of this bylaw.

6.8.2 *Existing Trade Waste consents*

Every existing Trade Waste consent shall continue in force as if it were a consent under this Bylaw until it reaches its expiry date.

SCHEDULE 1A

PERMITTED DISCHARGE CHARACTERISTICS

1A.1 INTRODUCTION

- 1A.1.1 The nature and levels of the Characteristics of any Trade Waste discharged to the Invercargill City Council system shall comply at all times with the following requirements, except where the nature and levels of such Characteristics are varied by the Invercargill City Council as part of an Approval to discharge a Trade Waste.
- 1A.1.2 The Invercargill City Council shall take into consideration the combined effects of Trade Waste discharges and may make any modifications to the following acceptable Characteristics for individual discharges the Invercargill City Council believes are appropriate.
- 1A.1.3 Mass Limits may be imposed for characteristics, metals, and compounds in tables 1A.1, 1A.2 and 1A.3
- 1A.1.4 The nature and levels of any Characteristic may be varied to meet any new resource Consents or other legal requirements imposed on the Invercargill City Council, refer to 3.9 of the bylaw.

1A.2 Physical characteristics

1A.2.1 Flow

- (a) The 24 hour flow volume averaged over one month or seasonal period shall be less than 10m³.
- (b) The maximum instantaneous flow rate shall be less than 2.0 litre/second.
- (c) The maximum average flow rate in any 2 hour period shall not exceed 1.0 litre/second.

1A.2.2 Temperature

The temperature shall not exceed 40°C.

1A.2.3 Solids

- (a) Non-faecal gross solids shall have a maximum dimension which shall not exceed 15 mm.
- (b) The suspended solids content of any Trade Waste shall have a Maximum Concentration which shall not exceed 500 mg/litre.(for significant industry this may be reduced). A suspended solids limit may be related to Mass Limits.
- (c) The settleable solids content of any Trade Waste shall not exceed 20 ml/litre.
- (d) The total dissolved solids concentration in any Trade Waste shall be subject to the Approval of the Invercargill City Council having regard to the volume of the waste to be discharged, and the suitability of the drainage system and the treatment plant to accept such waste.
- (e) Fibrous, woven, or sheet film or any other materials which may adversely interfere with the free flow of Sewage in the drainage system or treatment plant shall not be present.

1A.2.4 Oil and grease

- (a) Any free or floating layer shall not exceed 30mg/l for any grab sample or 15mg/litre for any composite sample..
- (b) A Trade Waste with mineral oil, fat or grease unavoidably emulsified, which in the opinion of the Invercargill City Council is not biodegradable shall not exceed 100mg/litre as petroleum ether extractable matter when the emulsion is stable at a temperature of 15°C and when the emulsion is in contact with and diluted by a factor of 10 by raw sewage, throughout the range of pH 6.0 to pH 10.0.

- (c) A Trade Waste with oil, fat or grease unavoidably emulsified, which in the opinion of the Invercargill City Council is biodegradable shall not exceed 250 mg/litre when the emulsion is stable at a temperature of 15°C and when the emulsion is in contact with and diluted by a factor of 10 by raw sewage throughout the range of pH 4.5 to pH 10.0.
- (d) Emulsified oil, fat or grease shall not exceed 100 mg/litre as petroleum ether extractable matter when the emulsion is unstable at a temperature of 15°C and when the emulsion is in contact with and diluted by a factor of 10 by raw sewage throughout the range of pH 4.5 to pH 10.0.

1A.2.5 *Solvents and other organic liquids*

There shall be no free layer (whether floating or settled) of solvents or organic liquids.

1A.2.6 *Emulsions of paint, latex, adhesive, rubber, plastic*

- (a) Where such emulsions are not treatable these may be discharged into the sewer subject to the total suspended solids not exceeding 250 mg/litre or the concentration agreed with the Invercargill City Council.
- (b) The Invercargill City Council may determine that the need exists for pre-treatment of such emulsions if they consider that Trade Waste containing emulsions unreasonably interferes with the operation of the Invercargill City Council treatment plant e.g. reduces % UVT (ultra violet transmission).
- (c) Such emulsions of both treatable and non-treatable type, shall be discharged to the sewer only at a concentration and pH range that prevents coagulation and blockage at the mixing zone in the public sewer.

1A.2.7 *Radioactivity*

Radioactivity levels shall not exceed National Radiation Laboratory Guidelines.

1A.2.8 *Colour*

No waste shall have colour or colouring substance that causes the discharge to be coloured to the extent that it impairs wastewater treatment processes or compromises the treated Sewage discharge Consent.

1A.3 **Chemical characteristics**

1A.3.1 *pH value*

The pH shall be between 6.0 and 10.0 at all times, unless specifically allowed by the Invercargill City Council.

1A.3.2 *Organic strength*

1A.3.2.1 The Biochemical Oxygen Demand (BOD₅) of any waste may require to be restricted where the capacity for receiving and treating BOD₅ is limited. A BOD₅ restriction may be related to Mass Limits.

The BOD₅ shall not exceed 250 mg/litre (for significant industry this may be reduced).

1A.3.3 *Maximum concentration*

The Maximum Concentrations permissible for the chemical Characteristics of an acceptable discharge are set out in table 1A.1, table 1A.2 and table 1A.3.

Table 1A.1 – General chemical characteristics

(Mass limits may be imposed, refer to 4.2)

| Characteristic | Maximum Concentration (mg/litre) |
|--|---|
| MBAS (Methylene blue active substances) | 500 |
| Ammonia (measured as N) | 50 |
| Free ammonia - ammonium salts: | 200 |
| Kjeldahl Nitrogen (Total) | 150 |
| Total Phosphorus (as P) | 50 |
| Sulphate (measured as SO ₄) | 500 1500 (with good mixing) |
| Sulphite (measured as SO ₂) | 15 |
| Sulphide (measured as H ₂ S on acidification) | 5 |
| Chlorine (measured as Cl ₂) - free chlorine - hypochlorite | 3 30 |
| Dissolved aluminium | 100 |
| Dissolved iron | 100 |
| Boron (as B) | 25 |
| Bromine (as Br ₂) | 5 |
| Fluoride (as F) | 30 |
| Cyanide – weak acid dissociable (as CN) | 5 |

Table 1A.2 – Heavy metals

(Mass limits may be imposed, refer to 4.2)

| Metal | Maximum concentration (mg/litre) | Metal | Maximum concentration (mg/litre) |
|--------------|---|--------------|---|
| Antimony | 10 | Manganese | 20 |
| Arsenic | 5 | Mercury | 0.005 |
| Barium | 10 | Molybdenum | 10 |
| Beryllium | 0.005 | Nickel | 10 |
| Cadmium | 0.5 | Selenium | 10 |
| Chromium | 5 | Silver | 2 |
| Cobalt | 10 | Thallium | 10 |
| Copper | 10 | Tin | 20 |
| Lead | 10 | Zinc | 10 |
| Tributyl Tin | 0 (Prohibited) | | |

Table 1A.3 – Organic compounds and pesticides

(Mass limits may be imposed, refer to 4.2)

| Characteristic | Maximum Concentration (mg/litre) |
|--|---|
| Formaldehyde (as HCHO) | 50 |
| Phenolic compounds (as phenols) excluding chlorinated phenols | 50 |
| Chlorinated phenols | 0.02 |
| Petroleum hydrocarbons | 30 |
| Halogenated aliphatic compounds | 1 |
| Monocyclic aromatic hydrocarbons | 5 |
| Polycyclic (or polynuclear) aromatic hydrocarbons (PAHs) | 0.05 |
| Halogenated aromatic hydrocarbons (HAHs) | 0.002 |
| Polychlorinated biphenyls (PCBs) | 0.002 |
| Polybrominated biphenyls (PBBs) | 0.002 each |
| Pesticides (general) (includes insecticides, herbicides, fungicides and excludes organophosphate, organochlorine and any other pesticides not registered for use in New Zealand) | 0.2 in total |
| Organophosphate pesticides | 0.1 |
| Organotin Compounds | 0 (Prohibited) |

SCHEDULE 1B

PROHIBITED CHARACTERISTICS

1B.1 INTRODUCTION

This schedule defines Prohibited Trade Wastes.

1B.2 Prohibited characteristics

1B.2.1 Any discharge has prohibited Characteristics if it has any solid liquid or gaseous matters or any combination or mixture of such matters which by themselves or in combination with any other matters will immediately or in the course of time:

- (a) Interfere with the free flow of sewage in the sewerage system;
- (b) Damage any part of the sewerage system;
- (c) In any way, directly or indirectly, cause the quality of the treated sewage or residual biosolids and other solids from any sewage treatment plant in the catchment to which the waste was discharged to breach the conditions of a Consent issued under the Resource Management Act, or water right, permit or other governing legislation;
- (d) Prejudice the occupational health and safety risks faced by sewerage workers;
- (e) After treatment be toxic to fish, animals or plant life in the receiving waters;
- (f) Cause malodorous gases or substances to form which are of a nature or sufficient quantity to create a public nuisance; or
- (g) Have a colour or colouring substance that causes the discharge from any sewage treatment plant to receiving waters to be coloured.

1B.2.2 A discharge has prohibited characteristics if it has any characteristic which exceeds the concentration or other limits specified in Schedule 1A unless specifically approved for that particular Conditional Consent.

1B.2.3 A discharge has a prohibited Characteristic if it has any amount of:

- (a) Harmful solids, including dry solid wastes and materials which combine with water to form a cemented mass;
- (b) Liquid, solid or gas which could be flammable or explosive in the wastes, including oil, fuel, solvents (except as allowed for in Schedule 1A), calcium carbide, and any other material which is capable of giving rise to fire or explosion hazards either spontaneously or in combination with Sewage;
- (c) Asbestos;
- (d) The following organo-metal compounds:
 - Tin (as tributyl and other organotin compounds);
- (e) Any organochlorine pesticides;
- (f) Genetic wastes, as follows:

All wastes that contain or are likely to contain material from a genetically modified organism that is not in accordance with an approval under the Hazardous Substances and New Organisms Act. The material concerned may be from Premises where the genetic modification of any organism is conducted or where a genetically modified organism is processed;

- (g) Any health care waste prohibited for discharge to a sewerage System by NZS 4304 or any pathological or histological wastes; or
- (h) Radioactivity levels in excess of the Office of Radiation Safety Code of practice CSP1 for the use of Unsealed Radioactive Material (Section 12.3 Liquid Waste).
- (i) Inhibitory Substances, as follows:
 - a. Cytotoxic Waste (any quantity)
 - b. Antibiotics (untreated)
- (j) Therapeutic and Illicit Drugs, as follows
 - a. Hormones (untreated)
 - b. Illicit Drugs (any quantity)
- (k) Trade waste containing liquid pharmaceuticals in excess of the following limits:

Table 1B.1 – Liquid Pharmaceutical Limits

| Volume Limit per Month | Active Concentration |
|------------------------|----------------------|
| 3 litre | above 250mg/5ml |
| 5 litre | 250mg/5ml |
| 10 litre | 125mg/5ml |

Should any characteristic of a discharge be found to inhibit the performance of the wastewater treatment process, such that the Invercargill City Council is significantly at risk or prevented from achieving its environmental statutory requirements, then the Invercargill City Council reserves the right to amend the corresponding Consent summarily.

**SCHEDULE 1C
TRADE WASTE CHARGES**

Fees and charges are set by Council resolution. This is done by the annual planning process, fee setting or a similar transparent public process in accordance with the Local Government Act (LGA).

In the following tables The Invercargill City Council outlines what categories they will charge, or may charge, under the tenure of this bylaw.

NOTE – A wide range of categories has been provided in the following table to leave options open and promote awareness for future changes in the Invercargill City Council sewerage System requirements.

| Table 1C.A – Administrative Charges | |
|--|---|
| Category | Description |
| A1 Connection fee | Payable on application for connection to discharge |
| A2 Compliance monitoring | The cost of sampling and analysis of Trade Waste discharges (Laboratory Testing Charge) |
| A3 Disconnection fee | Payable following a request for disconnection from the sewerage System |
| A4 Trade Waste application fee | Payable on application for a Trade Waste discharge |
| A5 Re-inspection fee | Payable for each re-inspection visit by the WWA where a notice served under this bylaw has not been complied with by the Trade Waste discharger |
| A6 Temporary discharge fee | Payable prior to receipt of Temporary Discharge |
| A7 Over limit fee | Payable upon any occurrence of any discharge which breaches the Waste Permit limits |

NOTE – A fee set for A7 is intended to be the recovery of actual and reasonable cost of consumables, equipment hire or procurement, repairs and additional operating costs as incurred as a consequence of any “over limit” event.

| Table 1C.B – Trade Waste Charges | |
|---|--|
| Category | Description |
| B1* Volume (C_F) | Payment based on the volume discharged $\$/m^3$ $C_F = ((0.4 \times AO) + D) \div TF \ (\$/m^3)$ |
| B2* Organic Loading (C_B) | Payment based on the Biochemical Oxygen Demand $C_B = 0.3 \times AO \div TBOD \ (\$/kg)$ |
| B3* Suspended Solids (C_S) | Payment based on the mass of Suspended Solids $C_S = 0.3 \times AO \div TSS \ (\$/kg)$ |
| B4 Capital | Apportioned upfront or term commitment capital cost of specific infrastructure required to accommodate a conditional consent |
| B5 Drainage Rate | Wastewater charge included in property rates |
| B6 Uniform Drainage Charge | A separate uniform charge for drainage included in property rates |
| * | Equations for the Trade Waste Charges are based on variables shown in Table 1C.D. Trade Waste Charging Variables. |

Table 1C.C – Tankered Waste Charges

| Category | Description |
|--------------------|--|
| C1* Tankered Waste | Set as a fee(s) per tanker load, or as a fee(s) per cubic metre, dependent on waste category |

Table 1C.D – Trade Waste Charging Variables

| Category | Description |
|---------------------------|--|
| AO (Annual Operating) | The annual cost of providing, financing, operating, upgrading and maintaining the wastewater treatment plants based on the approved Council budget for the year concerned |
| D (Drainage) | The annual cost of providing, financing, operating, upgrading and maintaining the wastewater reticulation, including wastewater pumping stations based on the approved Council budget for the year concerned |
| TF (Total Flow) | The total flow discharged to the treatment plants based on latest available annual data at time fees established |
| TBOD (Total BOD) | The total Biochemical Oxygen Demand discharged to the treatment plants based on latest available annual data at time fees established |
| TSS (Total SS) | The total Suspended Solids discharged to the treatment plants based on latest available annual data at time fees established |
| <i>n</i> (Days) | The number of calendar days in the discharge period |
| XF (m ³ /day) | The mean daily flow discharged to the Sewerage System, from the Consent holder, in the discharge period |
| XBOD (kg/day) | The mean daily organic load discharged to the sewerage System, from the Consent holder, in the discharge period |
| XSS (kg/day) | The mean daily suspended solids discharged to the sewerage System, from the Consent holder, in the discharge period |
| CV (Capital Value) | The Capital Value of the property from which the Trade Waste Consent is held |
| Rebate for Trade Premises | Reduction in fees is provided for in s. 150(2). Section 150(4) of the LGA states that fees prescribed by the Council shall not provide for the Council to recover more than the reasonable cost incurred by the Council for the matter for which the fee is charged. In no event shall the resultant charge be less than the Council's sewerage charge for the equivalent period. |

| Table 1C.E – Trade Waste Ratios | | |
|--|---|---|
| E1 | L _{FL} | Consented flow limit |
| E2 | L _{BL} | Consented biochemical oxygen demand limit |
| E3 | L _{SL} | Consented suspended solids limit |
| E4 | L _F , L _B , L _S | Measured load for factors E1 - E3 in any period |
| E5 | L _F /L _{FL} , L _B /L _{BL} , L _S /L _{SL} | Ratio of actual to consented load |
| E6 | L/L' | Largest of the ratios under E5 for the billing period |

| Table 1C.F – Over Limit Adjustment | |
|---|-----------|
| L/L' | P% |
| < 1.0 | 0 |
| 1.0 < 1.5 | 25 |
| 1.5 < 2.0 | 50 |
| 2.0 < 2.5 | 75 |
| 2.5 < 3.0 | 100 |
| 3.0 < 3.5 | 125 |
| 3.5 < 4.0 | 150 |
| > 4.0 | 200 |


The Trade Waste fee will be calculated using the following formula:

$$\text{Fee} = ((C_F \times L_F) + (C_B \times L_B) + (C_S \times L_S)) \times (1 + P/100)$$

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**APPENDIX A
APPLICATION FOR TRADE WASTE DISCHARGE**

| | | |
|---|---|---|
|  | <p>THE WASTEWATER AUTHORITY OF THE INVERCARGILL CITY COUNCIL APPLICATION FOR TRADE WASTE DISCHARGE</p> |  |
|---|---|---|

PLEASE PRINT CLEARLY

| | |
|--|-------------|
| Trade Name and Physical Address of Trade premises | |
| | |
| | |
| | |
| Contact: | |
| Phone: | Fax: |
| Email | |
| After Hours Contact (if different from above): | |
| Phone: | Fax: |
| Email | |

| |
|---|
| Postal Address of Trade Premises |
| |
| |
| |

| |
|--|
| Owner of Premises (if different from above) |
| |
| |
| |

| | |
|---|---------------|
| Address of Service for Further Enquiries Concerning this Application | |
| | |
| | |
| | |
| Contact: | |
| Phone: | Phone: |
| Email: | |

| |
|---|
| Term of Consent Sought (up to 5 years) |
| |

Sample Trade Waste Application Form

This Application Relates To

| | | | |
|--|--|----------------------------------|--|
| Proposed new discharge | | Renewal of a consent | |
| Existing discharge for which no consent exists | | Variation to an existing consent | |
| Nature of variation: | | | |

Property Information

| | |
|------------------------------------|--|
| Valuation Number/s | |
| Lot Number/s | |
| DP Number/s | |
| Water Billing Number/s | |
| Water backflow protection (Yes/No) | |

Are the Premises Already Connected to the Public Sewer?

| | | | |
|-----|--|----|--|
| Yes | | No | |
|-----|--|----|--|

Description of the Trade Activity

| |
|--|
| |
| |
| |

Description of the Trade Waste

| | | | | | |
|--|---------------------------|---------------------|---------------|---------------------|--|
| Average Daily Volume m ³ | | | | | |
| Maximum Daily Volume m ³ | | | | | |
| Maximum Instantaneous Flow l/s | | | | | |
| Temperature of Waste (range) | | | | | |
| BOD ₅ of Waste (mg/l range) | | | | | |
| Suspended Solids of Waste (mg/l range) | | | | | |
| Fat, Oil, Grease of Waste (mg/l range) | | | | | |
| pH (range) | | | | | |
| Other contaminants | | | | | |
| Other contaminants | | | | | |
| Process Water Source | Invercargill City Council | m ³ /day | Other | m ³ /day | |
| Waste Contain Condensing Water | Yes | | No | | |
| Trade and Domestic Waste to same Discharge | Yes | | No | | |
| Trade and Domestic Waste to same Discharge | Yes | | No | | |
| Flow measurement Device | Flow Meter | | ICC Water Use | Other | |

Substances Contained in Schedule 1A, 1B of Bylaw Produced/Stored on Premises

| |
|--|
| |
| |
| |
| |

| |
|--|
| Mitigation measures to Prevent Accidental Spills Entering the Sewer or Stormwater Systems |
| |
| |
| |

| | | | | | | | |
|---|-----|-------------------------|----|----------------------|-------------------------------------|-------------------|----|
| Site Plans | | | | | | | |
| Attach site plans which clearly identify the location of the following (tick where appropriate) | | | | | | | |
| Process area | | Flow Measuring Device | | Trade Waste Drains | | Domestic Drains | |
| Stormwater Drains | | Areas Falling to Drains | | Spill Devices | | Spill Containment | |
| Screens | | pH Control | | Flow Balance | | Grease Traps | |
| Chemical Treatment | | Biological Treatment | | Pre-Treatment Device | | Sampling Points | |
| Other | | | | | | | |
| | | | | | | | |
| Independent Site Audit Carried Out? | Yes | | No | | Discharge management Plan Attached? | Yes | No |

| |
|---|
| Health & Safety Requirements for ICC Staff Entering Premises |
| |
| |
| |
| |

| |
|----------------------------------|
| Type of Product Processed |
| |
| |
| |
| |

| |
|--|
| Description of the Process/es that Generate Trade Waste |
| |
| |
| |
| |

| |
|--|
| Characteristics of Trade Waste Likely to Exceed Schedule 1A, 1B |
| |
| |
| |
| |

Sample Trade Waste Application Form

| Steps Taken/To Be Taken to Improve Trade process as a Strategy of Cleaner Production | |
|--|--|
| | |
| | |
| | |
| | |
| | |
| | |
| Scheduled Date of Improvements: | |



| Signature Block | |
|---|--|
| Full Name | |
| Position | |
| I am duly authorised to make this application | |
| I believe that all the information contained in the application is true and correct | |
| Signature | |
| Date | |

| For Office Use Only | | | | | | | |
|-------------------------------------|--|-------------|--|-----------|--|------------|--|
| Application Number | | | | | | | |
| Date Application Received | | | | | | | |
| Application Received and Checked By | | | | | | | |
| Permitted | | Conditional | | Temporary | | Prohibited | |
| Trade Waste Consent Approval Date | | | | | | | |
| Trade Waste Consent Approved By | | | | | | | |
| Trade Waste Consent Number | | | | | | | |
| Trade Waste Consent Expire Date | | | | | | | |

| Application Fee | |
|-----------------|----|
| Fee | \$ |
| GST | \$ |
| Total | \$ |
| Cashier Receipt | |
| File Number | |

Sample Trade Waste Application Form

**APPENDIX B
APPLICATION FOR TRADE WASTE CONDITIONAL TEMPORARY DISCHARGE**

| |
|---|
|  <div style="text-align: center;"> <p>THE WASTEWATER AUTHORITY OF THE INVERCARGILL CITY COUNCIL</p> <p>APPLICATION FOR CONDITIONAL TRADE WASTE DISCHARGE (Temporary)</p> </div>  |
|---|

PLEASE PRINT CLEARLY

| Applicant | | | | | |
|--|----------------|--|--|--|----------------------|
| | | | | | |
| | | | | | |
| Contact: | | | | | |
| Phone: | | | Fax: | | |
| Email | | | | | |
| After Hours Contact (if different from above): | | | | | |
| Phone: | | | Fax: | | |
| Email | | | | | |
| Applicant responsible (tick) | Transportation | | Generation | | Licensed Transporter |
| Application sought for | One Discharge | | A number of discharges of same kind of waste over a period | | |
| Proposed Point of Discharge | | | | | |
| Proposed Timing of Discharge | Date: | | Time: | | |

| Generator/Transporter of Liquid Waste (This will delete the applicants responsibility) | |
|---|------|
| Contact: | |
| Phone: | Fax: |
| Email | |
| After Hours Contact (if different from above): | |
| Phone: | Fax: |
| Email | |

| Description of the Trade Waste | |
|--|--|
| Average Daily Volume m ³ | |
| Maximum Daily Volume m ³ | |
| Maximum Instantaneous Flow l/s | |
| Source of Waste | |
| Process in Which Waste Produced | |
| BOD ₅ of Waste (mg/l range) | |
| Suspended Solids of Waste (mg/l range) | |
| Fat, Oil, Grease of Waste (mg/l range) | |
| pH (range) | |
| Other contaminants | |
| Other contaminants | |

Analysis of Trade Waste

| | | | |
|-----------------|--|-----------------|--|
| Appended | | Required | |
|-----------------|--|-----------------|--|

Backflow Prevention

| | | | |
|--------------------------|--|---------------------------|--|
| Required (Yes/No) | | Installed (Yes/No) | |
| Description | | | |

Declaration

We hereby certify that the above liquid trade waste is accurately described

| | |
|------------------------------|--|
| Applicant | |
| Transporter/Generator | |

For Office Use Only



| | |
|--|--|
| Application Number | |
| Date Application Received | |
| Application Received and Checked By | |
| Trade Waste Consent Approval Date | |
| Trade Waste Consent Approved By | |
| Trade Waste Consent Not Approved | |
| If not approved, Referred to | |
| Trade Waste Consent Number | |
| Trade Waste Consent Expire Date | |

Application Fee

| | | | |
|------------------------|--------------|-----------|--|
| | Fee | \$ | |
| | GST | \$ | |
| | Total | \$ | |
| Cashier Receipt | | | |
| File Number | | | |

Sample Trade Waste Application (Temporary Discharge)

APPENDIX C
SAMPLE TRADE WASTE CONSENT FORM
 (Normative)

| | | |
|---|--|---|
|  | <p>THE WASTEWATER AUTHORITY OF THE INVERCARGILL CITY COUNCIL</p> <p>CONSENT TO DISCHARGE TRADE WASTE TO THE PUBLIC SEWER Pursuant to the Invercargill City Council Bylaw 2017</p> |  |
|---|--|---|

Consent Holder: *Laika Enterprises*

(Consent Holder Trade Name)

Address: *1 Sputnik Lane ,Vladivostok*

(Street Address of Trade Premises)

Phone: *007 4232 19571004*

Fax:

Email: *doginspace@ce.ru*

Valuation Number: *300056124*

Lot Number: *7*

DP Number: *4785*

Water Meter Reference Number: *WM125/2*

Trade Premise Owner: *Yuri Gagarin*

(Owner of Trade Premises for which Consent is issued)

Address: *1961/04 Vostok Lane Klushino Russia*

(Address of Trade Premises Owner)

Name: *Laika Enterprises*

(Company Contact Name)

Address: *1 Sputnik Lane ,Vladivostok*

Phone: *007 4232 19571004*

Fax:

Email: *doginspace@ce.ru*

Postal Address: *Same as above*

(Address for Charging and Service of Documents)

Trade Activity: *Rocket Fuel manufacture*

In response to, and in terms of, the information declared in your application 12 April 1961 to Discharge Trade Waste from the above premises, the consent of the WWA is hereby given for the Term and subject to the conditions set out below:

1. That this Consent relates to a proposed new discharge / existing non-consented discharge / renewal of a Consent / variation to an existing Consent.
2. That this is a ~~permitted~~ / conditional Consent.
3. That the provisions of the Invercargill City Council Trade Waste Bylaw 2017 are complied with at all times.
4. That this Consent is valid for a period of *5* years and will expire on *30/04/1966*.
5. That the Trade Waste discharge under this Consent shall only contain wastes from the following processes:

Manufacture Rocket Fuel

6. That this Consent is subject to the specific Conditions set out in Schedule 1A which is attached.

For and on behalf of the Invercargill City Council

Authorised Officer Name: : *Deke Slayton*

Signature: *Deke Slayton*

Date: *30/04/1961*

FOR OFFICE USE ONLY

Consent No.: *Ru1961*

Application No.: *Ru1961*

File No.: *Property File 1 Sputnik Lane*

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This consent to discharge trade waste to the public sewer shall be pursuant to the Invercargill City Council Bylaw 2017-Trade Waste.

PRO FORMA TRADE WASTE CONSENT FOR THE DISCHARGE OF CONDITIONAL TYPE TRADE WASTE

THIS CONSENT is between the Wastewater Authority of the Invercargill City Council and the named occupier of the property described hereunder from which waste is discharged. The occupier has made application to the Invercargill City Council pursuant to the Bylaw 2017 - Trade Waste for permission to discharge trade waste to the Invercargill City Council wastewater drainage system in accordance with and subject to the terms and conditions set forth in the Bylaw. Subject to the terms, conditions, requirements, stipulations, and provisos hereinafter contained; and in consideration of payment by the occupier to the Invercargill City Council of charges calculated in accordance with the provisions of the Bylaw, the Invercargill City Council hereby agrees to the admission to its wastewater drainage system of those discharges of waste specified in the Schedule hereto.

NAME & ADDRESS OF OCCUPIER: *Laika Enterprises*
1 Sputnik Lane , Vladivostok

REGISTERED OFFICE: *1 Sputnik Lane , Vladivostok*

ADDRESS OF PROPERTY FROM WHICH WASTE IS DISCHARGED: *1 Sputnik Lane , Vladivostok*

COMMENCEMENT DATE *1 May 1961*

EXPIRY DATE *30 April 1966*

IN WITNESS the parties have executed this Consent this *30 day o April 1961*

SIGNED FOR AND ON BEHALF OF THE INVERCARGILL CITY COUNCIL

Deke Slayton

**Asset Manager Drainage
Invercargill City Council**

SIGNED FOR AND ON BEHALF OF

Yuri Gagarin.

Director/Signatory

Date *12/04/1961*

CONDITIONS SPECIFIC TO THIS TRADE WASTE CONSENT: CONSENT NUMBER [Ru1961](#)

Conditions specific to this consent for Physical and Chemical characteristics stated on this pages (pages 4-5) of this consent shall take precedence over general conditions for all Trade Wastes stated in Schedule 1A.

Point Of Discharge

The point of discharge to the Invercargill City Council sewer for trade waste discharged under this consent shall be: [ICC sewer main at 1 Sputnik Lane](#).

Physical Characteristics Specific to This Consent

The Physical Characteristics conditions as follows are specific to this consent and take precedence over the general conditions for all trade wastes previously stated in Schedule 1A (pages 6-9 of this consent).

FLOW

- (a) No more than [50 m³](#) shall be discharged in any 24 hour period.
- (b) No more than [12 m³](#) shall be discharged in any 4 hour period.
- (c) The instantaneous flow rate of the discharge shall not exceed [2 litre/sec](#) at any time

No characteristics of the discharge determined by analysis shall exceed the values tabulated below:

| DISCHARGE CHARACTERISTIC | LIMIT APPLYING TO THIS CONSENT |
|------------------------------------|---|
| Suspended Solids Content | 20 mg/l |
| Suspended Solids Load (Mass Limit) | 10 kg/day – averaged over monitoring period |
| Settleable Solids Content | 20 ml/litre |
| Oil and Grease Content | 10 mg/l |
| Temperature | Shall not exceed 40 degrees Celsius. |

Chemical Characteristics Specific to This Consent

The Chemical Characteristics conditions as follows are specific to this consent and take precedence over the general condition for all trade wastes previously stated in Schedule 1A (pages 4-7 of this consent).

No characteristics of the discharge determined by analysis shall exceed the values tabulated below:

| DISCHARGE CHARACTERISTIC | LIMIT APPLYING TO THIS CONSENT |
|--|---|
| pH | pH value shall be between 6 and 10.0 at all times |
| Biochemical Oxygen Demand (Organic strength) | 500 mg/l |
| Biochemical Oxygen Demand Load (Mass Limit) | 20 kg/day – averaged over monitoring period |

Other Specific Limits are:

[A log of the interceptor must be kept and made available to ICC Trade Waste officer on request.](#)

OTHER REQUIREMENTS

[Chemicals used on site shall be safely stored in a bunded area such that spills are contained to the waste system and not the stormwater system. Care must be taken that incompatible chemicals are not stored together.](#)

[Notification of expected breach of conditions to ICC Trade Waste Officer \(2162189\).](#)

Flow Metering - refer Bylaw 2007/1 Trade Waste sections (5.1), (5.2)

Trade waste volumes discharged to the Invercargill City Council sewer *shall/may* be required.

Monitoring - refer Bylaw 2007/1 Trade Waste section (5.4)

Sampling and analysis must be undertaken to determine compliance with the provisions of Schedule 1A. The premises may arrange for the Invercargill City Council or approved laboratory to carry out a monitoring programme. As from the commencement of this consent a program of monitoring of the waste discharge to be implemented as follows:

Sampling Point

The discharge shall be sampled from discharge to sewer 1 Sputnik Lane

Sample Testing

On a one hour flow proportional composite sample of the discharge obtained from the sampling point as specified, on at least one occasion every three months, the level and concentration of the following components and characteristics shall be determined. (Sampled for 24 hours or preferably, the period of one typical shift)

- *Biochemical Oxygen Demand*
- *Suspended Solids*
- *pH*
- *Total Petroleum Hydrocarbons*

The rate of discharge at the time of sampling shall be estimated or measured, and the commencement time and date of sampling recorded, with the analytical results.

Reporting

Where a laboratory, other than the Invercargill City Council laboratory has been contracted to test the trade waste, the occupier shall arrange for results from the self-monitoring programme to be forwarded to the Invercargill City Council, on facsimile number 03 216 2789 or email to lab@icc.govt.nz within 20 days of sampling.

Charges And Payments - refer Bylaw 2017 Trade Waste section (6.3)

The Invercargill City Council will recover fees in accordance with schedule 1C. In accordance with Schedule 1C for the purpose of calculating the appropriate charges, the volume and composition of trade waste discharged from this property and discharged to the WWA sewer shall, unless otherwise advised, be as follows:

- *Volume(C_F) discharged to the sewer (Table 1C.B B1)*
- *Organic Loading(C_B) as Biochemical Oxygen Demand (Table 1C.B B2)*
- *Suspended Solids(C_S) (Table 1C.B B3)*
- *Over Limit Adjustment (L/L') (Table 1C.F)*
- *Monitoring charge if monitoring carried out by WWA Laboratory.*
- *Rebate for Drainage Rate included, and invoiced, in property rates.*

In no event shall the resultant charge be less than the ICC sewerage charge for the equivalent period, as included in property rates. In this event no extra trade waste charge for the period shall be charged above the Invercargill City Council sewerage charge included in property rates.

SCHEDULE 1A

PERMITTED DISCHARGE CHARACTERISTICS

1A.1 INTRODUCTION

- 1A.1.1 The nature and levels of the Characteristics of any Trade Waste discharged to the Invercargill City Council system shall comply at all times with the following requirements, except where the nature and levels of such Characteristics are varied by the Invercargill City Council as part of an Approval to discharge a Trade Waste.
- 1A.1.2 The Invercargill City Council shall take into consideration the combined effects of Trade Waste discharges and may make any modifications to the following acceptable Characteristics for individual discharges the Invercargill City Council believes are appropriate.
- 1A.1.3 Mass Limits may be imposed for characteristics, metals, and compounds in tables 1A.1, 1A.2 and 1A.3
- 1A.1.4 The nature and levels of any characteristic may be varied to meet any new resource Consents or other legal requirements imposed on the Invercargill City Council, refer to 3.9 of the bylaw.

1A.2 Physical characteristics

1A.2.1 Flow

- (a) The 24 hour flow volume averaged over one month or seasonal period shall be less than 10m³.
- (b) The maximum instantaneous flow rate shall be less than 2.0 litre/second.
- (c) The maximum average flow rate in any 2 hour period shall not exceed 1.0 litre/second

1A.2.2 Temperature

The temperature shall not exceed 40°C.

1A.2.3 Solids

- (a) Non-faecal gross solids shall have a maximum dimension which shall not exceed 15 mm.
- (b) The suspended solids content of any Trade Waste shall have a Maximum Concentration which shall not exceed 500 mg/l (for Significant Industry this may be reduced). A suspended solids limit may be related to Mass Limits.
- (c) The settleable solids content of any Trade Waste shall not exceed 20 ml/litre.
- (d) The total dissolved solids concentration in any Trade Waste shall be subject to the Approval of the Invercargill City Council having regard to the volume of the waste to be discharged, and the suitability of the drainage system and the treatment plant to accept such waste.
- (e) Fibrous, woven, or sheet film or any other materials which may adversely interfere with the free flow of Sewage in the drainage system or treatment plant shall not be present.

1A.2.4 Oil and grease

- (a) Any free or floating layer shall not exceed 30mg/l for any grab sample or 15mg/litre for any composite sample..
- (b) A Trade Waste with mineral oil, fat or grease unavoidably emulsified, which in the opinion of the Invercargill City Council is not biodegradable shall not exceed 100mg/litre as petroleum ether extractable matter when the emulsion is stable at a temperature of 15°C and when the emulsion is in contact with and diluted by a factor of 10 by raw sewage, throughout the range of pH 6.0 to pH 10.0.

- (c) A Trade Waste with oil, fat or grease unavoidably emulsified, which in the opinion of the Invercargill City Council is biodegradable shall not exceed 250 mg/litre when the emulsion is stable at a temperature of 15°C and when the emulsion is in contact with and diluted by a factor of 10 by raw sewage throughout the range of pH 4.5 to pH 10.0.
- (d) Emulsified oil, fat or grease shall not exceed 100 mg/litre as petroleum ether extractable matter when the emulsion is unstable at a temperature of 15°C and when the emulsion is in contact with and diluted by a factor of 10 by raw sewage throughout the range of pH 4.5 to pH 10.0.

1A.2.5 *Solvents and other organic liquids*

There shall be no free layer (whether floating or settled) of solvents or organic liquids.

1A.2.6 *Emulsions of paint, latex, adhesive, rubber, plastic*

- (a) Where such emulsions are not treatable these may be discharged into the sewer subject to the total suspended solids not exceeding 250 mg/litre or the concentration agreed with the Invercargill City Council.
- (b) The Invercargill City Council may determine that the need exists for pre-treatment of such emulsions if they consider that Trade Waste containing emulsions unreasonably interferes with the operation of the Invercargill City Council treatment plant e.g. reduces % UVT (ultra violet transmission).
- (c) Such emulsions of both treatable and non-treatable type, shall be discharged to the sewer only at a concentration and pH range that prevents coagulation and blockage at the mixing zone in the public sewer.

1A.2.7 *Radioactivity*

Radioactivity levels shall not exceed National Radiation Laboratory Guidelines.

1A.2.8 *Colour*

No waste shall have colour or colouring substance that causes the discharge to be coloured to the extent that it impairs wastewater treatment processes or compromises the treated Sewage discharge Consent.

1A.3 **Chemical characteristics**

1A.3.1 *pH value*

The pH shall be between 6.0 and 10.0 at all times, unless specifically allowed by the Invercargill City Council.

1A.3.2 *Organic strength*

1A.3.2.1 The Biochemical Oxygen Demand (BOD₅) of any waste may require to be restricted where the capacity for receiving and treating BOD₅ is limited. A BOD₅ restriction may be related to Mass Limits.

The BOD₅ shall not exceed 250 mg/litre (for significant industry this may be reduced).

1A.3.3 *Maximum concentration*

The Maximum Concentrations permissible for the chemical Characteristics of an acceptable discharge are set out in table 1A.1, table 1A.2 and table 1A.3.

Table 1A.1 – General chemical characteristics

(Mass limits may be imposed, refer to 4.2)

| Characteristic | Maximum Concentration (mg/litre) |
|--|----------------------------------|
| MBAS (Methylene blue active substances) | 500 |
| Ammonia (measured as N) | 50 |
| Free ammonia - ammonium salts: | 200 |
| Kjeldahl Nitrogen (Total) | 150 |
| Total Phosphorus (as P) | 50 |
| Sulphate (measured as SO ₄) | 500 1500 (with good mixing) |
| Sulphite (measured as SO ₂) | 15 |
| Sulphide (measured as H ₂ S on acidification) | 5 |
| Chlorine (measured as Cl ₂) - free chlorine - hypochlorite | 3 30 |
| Dissolved aluminium | 100 |
| Dissolved iron | 100 |
| Boron (as B) | 25 |
| Bromine (as Br ₂) | 5 |
| Fluoride (as F) | 30 |
| Cyanide – weak acid dissociable (as CN) | 5 |

Table 1A.2 – Heavy metals

(Mass limits may be imposed, refer to 4.2)

| Metal | Maximum concentration (mg/litre) | Metal | Maximum concentration (mg/litre) |
|--------------|---|--------------|---|
| Antimony | 10 | Manganese | 20 |
| Arsenic | 5 | Mercury | 0.005 |
| Barium | 10 | Molybdenum | 10 |
| Beryllium | 0.005 | Nickel | 10 |
| Cadmium | 0.5 | Selenium | 10 |
| Chromium | 5 | Silver | 2 |
| Cobalt | 10 | Thallium | 10 |
| Copper | 10 | Tin | 20 |
| Lead | 10 | Zinc | 10 |
| Tributyl Tin | 0 (Prohibited) | | |

Table 1A.3 – Organic compounds and pesticides

(Mass limits may be imposed, refer to 4.2)

| Characteristic | Maximum Concentration (mg/litre) |
|--|---|
| Formaldehyde (as HCHO) | 50 |
| Phenolic compounds (as phenols excluding chlorinated phenols) | 50 |
| Chlorinated phenols | 0.02 |
| Petroleum hydrocarbons | 30 |
| Halogenated aliphatic compounds | 1 |
| Monocyclic aromatic hydrocarbons | 5 |
| Polycyclic (or polynuclear) aromatic hydrocarbons (PAHs) | 0.05 |
| Halogenated aromatic hydrocarbons (HAHs) | 0.002 |
| Polychlorinated biphenyls (PCBs) | 0.002 |
| Polybrominated biphenyls (PBBs) | 0.002 each |
| Pesticides (general) (includes insecticides, herbicides, fungicides and excludes organophosphate, organochlorine and any other pesticides not registered for use in New Zealand) | 0.2 in total |
| Organophosphate pesticides | 0.1 |
| Organotin Compounds | 0 (Prohibited) |

SCHEDULE 1B

PROHIBITED CHARACTERISTICS

1B.1 Introduction

This schedule defines Prohibited Trade Wastes.

1B.2 Prohibited characteristics

1B.2.1 Any discharge has prohibited Characteristics if it has any solid liquid or gaseous matters or any combination or mixture of such matters which by themselves or in combination with any other matters will immediately or in the course of time:

- (a) Interfere with the free flow of sewage in the sewerage system;
- (b) Damage any part of the sewerage system;
- (c) In any way, directly or indirectly, cause the quality of the treated sewage or residual biosolids and other solids from any sewage treatment plant in the catchment to which the waste was discharged to breach the conditions of a Consent issued under the Resource Management Act, or water right, permit or other governing legislation;
- (d) Prejudice the occupational health and safety risks faced by sewerage workers;
- (e) After treatment be toxic to fish, animals or plant life in the receiving waters;
- (f) Cause malodorous gases or substances to form which are of a nature or sufficient quantity to create a public nuisance; or
- (g) Have a colour or colouring substance that causes the discharge from any sewage treatment plant to receiving waters to be coloured.

1B.2.2 A discharge has prohibited Characteristics if it has any characteristic which exceeds the concentration or other limits specified in Schedule 1A unless specifically approved for that particular Conditional Consent.

1B.2.3 A discharge has a prohibited Characteristic if it has any amount of:

- (a) Harmful solids, including dry solid wastes and materials which combine with water to form a cemented mass;
- (b) Liquid, solid or gas which could be flammable or explosive in the wastes, including oil, fuel, solvents (except as allowed for in Schedule 1A), calcium carbide, and any other material which is capable of giving rise to fire or explosion hazards either spontaneously or in combination with Sewage;
- (c) Asbestos;
- (d) The following organo-metal compounds:
 - Tin (as tributyl and other organotin compounds);
- (e) Any organochlorine pesticides;
- (f) Genetic wastes, as follows:

All wastes that contain or are likely to contain material from a genetically modified organism that is not in accordance with an approval under the Hazardous Substances and New Organisms Act. The material concerned may be from Premises where the genetic modification of any organism is conducted or where a genetically modified organism is processed;

- (g) Any health care waste prohibited for discharge to a sewerage System by NZS 4304 or any pathological or histological wastes; or
- (h) Radioactivity levels in excess of the Office of Radiation Safety Code of practice CSP1 for the use of Unsealed Radioactive Material (Section 12.3 Liquid Waste).
- (k) Inhibitory Substances, as follows:
 - a. Cytotoxic Waste (any quantity)
 - b. Antibiotics (untreated)
- (l) Therapeutic and Illicit Drugs, as follows
 - a. Hormones (untreated)
 - b. Illicit Drugs (any quantity)
- (k) Trade waste containing liquid pharmaceuticals in excess of the following limits:

Table 1B.1 – Liquid Pharmaceutical Limits

| Volume Limit per Month | Active Concentration |
|------------------------|----------------------|
| 3 litre | above 250mg/5ml |
| 5 litre | 250mg/5ml |
| 10 litre | 125mg/5ml |

Should any characteristic of a discharge be found to inhibit the performance of the wastewater treatment process, such that the Invercargill City Council is significantly at risk or prevented from achieving its environmental statutory requirements, then the Invercargill City Council reserves the right to amend the corresponding Consent summarily.

Sample Trade Waste Consent

**SCHEDULE 1C
TRADE WASTE CHARGES**

Fees and charges are set by Council resolution. This is done by the annual planning process, fee setting or a similar transparent public process in accordance with the Local Government Act (LGA).

In the following tables The Invercargill City Council outlines what categories they will charge, or may charge, under the tenure of this bylaw.

NOTE – A wide range of categories has been provided in the following table to leave options open and promote awareness for future changes in the Invercargill City Council sewerage System requirements.

| Table 1C.A – Administrative Charges | |
|--|---|
| Category | Description |
| A1 Connection fee | Payable on application for connection to discharge |
| A2 Compliance monitoring | The cost of sampling and analysis of Trade Waste discharges (Laboratory Testing Charge) |
| A3 Disconnection fee | Payable following a request for disconnection from the sewerage System |
| A4 Trade Waste application fee | Payable on application for a Trade Waste discharge |
| A5 Re-inspection fee | Payable for each re-inspection visit by the WWA where a notice served under this bylaw has not been complied with by the Trade Waste discharger |
| A6 Temporary discharge fee | Payable prior to receipt of Temporary Discharge |
| A7 Over limit fee | Payable upon any occurrence of any discharge which breaches the Waste Permit limits |

NOTE – A fee set for A7 is intended to be the recovery of actual and reasonable cost of consumables, equipment hire or procurement, repairs and additional operating costs as incurred as a consequence of any “over limit” event.

| Table 1C.B – Trade Waste Charges | |
|---|--|
| Category | Description |
| B1* Volume (C _F) | Payment based on the volume discharged \$/m ³ $C_F = ((0.4 \times AO) + D) \div TF$ (\$/m ³) |
| B2* Organic Loading (C _B) | Payment based on the Biochemical Oxygen Demand $C_B = 0.3 \times AO \div TBOD$ (\$/kg) |
| B3* Suspended Solids (C _S) | Payment based on the mass of Suspended Solids $C_S = 0.3 \times AO \div TSS$ (\$/kg) |
| B4 Capital | Apportioned upfront or term commitment capital cost of specific infrastructure required to accommodate a conditional consent |
| B5 Drainage Rate | Wastewater charge included in property rates |
| B6 Uniform Drainage Charge | A separate uniform charge for drainage included in property rates |
| * Equations for the Trade Waste Charges are based on variables shown in Table 1C.D. Trade Waste Charging Variables. | |

| Table 1C.C – Tankered Waste Charges | |
|--|--|
| Category | Description |
| C1* Tankered Waste | Set as a fee(s) per tanker load, or as a fee(s) per cubic metre, dependent on waste category |

| Table 1C.D – Trade Waste Charging Variables | |
|--|---|
| Category | Description |
| AO (Annual Operating) | The annual cost of providing, financing, operating, |

| | |
|---------------------------|--|
| | upgrading and maintaining the wastewater treatment plants based on the approved Council budget for the year concerned |
| D (Drainage) | The annual cost of providing, financing, operating, upgrading and maintaining the wastewater reticulation, including wastewater pumping stations based on the approved Council budget for the year concerned |
| TF (Total Flow) | The total flow discharged to the treatment plants based on latest available annual data at time fees established |
| TBOD (Total BOD) | The total Biochemical Oxygen Demand discharged to the treatment plants based on latest available annual data at time fees established |
| TSS (Total SS) | The total Suspended Solids discharged to the treatment plants based on latest available annual data at time fees established |
| n (Days) | The number of calendar days in the discharge period |
| XF (m ³ /day) | The mean daily flow discharged to the Sewerage System, from the Consent holder, in the discharge period |
| XBOD (kg/day) | The mean daily organic load discharged to the sewerage System, from the Consent holder, in the discharge period |
| XSS (kg/day) | The mean daily suspended solids discharged to the sewerage System, from the Consent holder, in the discharge period |
| CV (Capital Value) | The Capital Value of the property from which the Trade Waste Consent is held |
| Rebate for Trade Premises | Reduction in fees is provided for in s. 150(2). Section 150(4) of the LGA states that fees prescribed by the Council shall not provide for the Council to recover more than the reasonable cost incurred by the Council for the matter for which the fee is charged. In no event shall the resultant charge be less than the Council's sewerage charge for the equivalent period. |

Table 1C.E – Trade Waste Ratios

| | | |
|----|---|---|
| E1 | L _{FL} | Consented flow limit |
| E2 | L _{BL} | Consented biochemical oxygen demand limit |
| E3 | L _{SL} | Consented suspended solids limit |
| E4 | L _F , L _B , L _S | Measured load for factors E1 - E3 in any period |
| E5 | L _F /L _{FL} , L _B /L _{BL} , L _S /L _{SL} | Ratio of actual to consented load |
| E6 | L/L' | Largest of the ratios under E5 for the billing period |

Table 1C.F – Over Limit Adjustment

| L/L' | P% |
|-----------|-----|
| < 1.0 | 0 |
| 1.0 < 1.5 | 25 |
| 1.5 < 2.0 | 50 |
| 2.0 < 2.5 | 75 |
| 2.5 < 3.0 | 100 |
| 3.0 < 3.5 | 125 |
| 3.5 < 4.0 | 150 |
| > 4.0 | 200 |

The Trade Waste fee will be calculated using the following formula:

$$\text{Fee} = ((C_F \times L_F) + (C_B \times L_B) + (C_S \times L_S)) \times (1 + P/100)$$



THE WASTEWATER AUTHORITY OF THE
INVERCARGILL CITY COUNCIL
 APPLICATION FOR TRADE WASTE DISCHARGE



PLEASE PRINT CLEARLY

Trade Name and Physical Address of Trade premises

| | |
|--|------|
| Laika Enterprises | |
| 1 Sputnik Lane | |
| Vladivostok | |
| Contact: Yuri Gagarin | |
| Phone: 007 4232 19571004 | Fax: |
| Email doginspace@ce.ru | |
| After Hours Contact (if different from above): | |
| Phone: 007 4232 19571004 | Fax: |
| Email doginspace@ce.ru | |

Postal Address of Trade Premises

| |
|-------------------|
| Laika Enterprises |
| 1 Sputnik Lane |
| Vladivostok |

Owner of Premises (if different from above)

| |
|---------------|
| Same as above |
| |
| |

Address of Service for Further Enquiries Concerning this Application

| | |
|--------------------------|--------------------------|
| Laika Enterprises | |
| 1 Sputnik Lane | |
| Vladivostok | |
| Contact: Yuri Gagarin | |
| Phone: 007 4232 19571004 | Phone: 007 4232 19571004 |
| Email doginspace@ce.ru | |

Term of Consent Sought (up to 5 years)

| |
|---------|
| 5 Years |
|---------|

| This Application Relates To | | | |
|--|-------------------------------------|----------------------------------|--|
| Proposed new discharge | <input checked="" type="checkbox"/> | Renewal of a consent | |
| Existing discharge for which no consent exists | <input type="checkbox"/> | Variation to an existing consent | |
| Nature of variation: | | | |
| | | | |

| Property Information | |
|------------------------|-----------|
| Valuation Number/s | 300056124 |
| Lot Number/s | 7 |
| DP Number/s | 4785 |
| Water Billing Number/s | WM125/2 |

| Are the Premises Already Connected to the Public Sewer? | | | |
|---|-------------------------------------|----|--------------------------|
| Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |

| Description of the Trade Activity | |
|-----------------------------------|--|
| Rocket fuel manufacture | |
| | |

| Description of the Trade Waste | | | | |
|--|---------------------------|-------------------------------------|---------------|-----------------------|
| Average Daily Volume m ³ | 27 | | | |
| Maximum Daily Volume m ³ | 45 | | | |
| Maximum Instantaneous Flow l/s | 1.5 | | | |
| Temperature of Waste (range) | 35 | | | |
| BOD ₅ of Waste (mg/l range) | 5 to 220 | | | |
| Suspended Solids of Waste (mg/l range) | 10 to 100 | | | |
| Fat, Oil, Grease of Waste (mg/l range) | 0 to 10 | | | |
| pH (range) | 6.5 to 7.5 | | | |
| Other contaminants | nil | | | |
| Other contaminants | | | | |
| Process Water Source | Invercargill City Council | 25 m ³ /day | Other | 2 m ³ /day |
| Waste Contain Condensing Water | Yes | No | No | |
| Trade and Domestic Waste to same Discharge | Yes | Yes | No | |
| Flow measurement Device | Flow Meter | <input checked="" type="checkbox"/> | ICC Water Use | Other |

| Substances Contained in Schedule 1A, 1B of Bylaw Produced/Stored on Premises | |
|--|--|
| Formaldehyde (2000 litre) | |
| Kerosine (10000 litre) | |
| Copper Oxide (200 kg) | |
| Petrol (50 litre) | |
| Diesel (50litre) | |
| | |
| | |
| | |

| |
|--|
| Mitigation measures to Prevent Accidental Spills Entering the Sewer or Stormwater Systems |
| Formadehyde and kerosine in separated bunded areas |
| Petrol and diesel in small quantities |
| Copper Oxide in 25 kg bags in separate store. |
| No drainage other than carpark connected to stormwater |

| Site Plans | | | | | | | | | |
|---|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|-------------------------------------|----|-------------------------------------|
| Attach site plans which clearly identify the location of the following (tick where appropriate) | | | | | | | | | |
| Process area | <input checked="" type="checkbox"/> | Flow Measuring Device | <input checked="" type="checkbox"/> | Trade Waste Drains | <input checked="" type="checkbox"/> | Domestic Drains | <input checked="" type="checkbox"/> | | |
| Stormwater Drains | <input checked="" type="checkbox"/> | Areas Falling to Drains | <input checked="" type="checkbox"/> | Spill Devices | | Spill Containment | <input checked="" type="checkbox"/> | | |
| Screens | | pH Control | | Flow Balance | | Grease Traps | <input checked="" type="checkbox"/> | | |
| Chemical Treatment | | Biological Treatment | | Pre-Treatment Device | <input checked="" type="checkbox"/> | Sampling Points | | | |
| Other | | | | | | | | | |
| | | | | | | | | | |
| Independent Site Audit Carried Out? | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> | Discharge management Plan Attached? | Yes | <input type="checkbox"/> | No | <input checked="" type="checkbox"/> |

| Health & Safety Requirements for ICC Staff Entering Premises | |
|--|--|
| Visiting staff must call in at office for induction to site. | |
| Visiting staff must be accompanied by factory employee whilst on site. | |
| | |
| | |

| Type of Product Processed | |
|---------------------------|--|
| Rocket Fuel | |
| | |
| | |
| | |

| Description of the Process/es that Generate Trade Waste | |
|---|--|
| Oxygen and kerosene mixed and refined. | |
| | |
| | |
| | |

| Characteristics of Trade Waste Likely to Exceed Schedule 1A, 1B | |
|--|--|
| Occasionally the copper content of the waste may exceed 30mg/litre | |
| | |
| | |
| | |

Steps Taken/To Be Taken to Improve Trade process as a Strategy of Cleaner Production

We are planning to put in a waste treatment plant prior to discharge of trade waste to sewer

Training of staff in good work practices

Scheduled Date of Improvements: 1963

Signature Block

Full Name Yuri Gagarin

Position Company Manager

I am duly authorised to make this application Yes

I believe that all the information contained in the application is true and correct Yes

Signature *Yuri Gagarin*

Date 12/04/1961

For Office Use Only

Application Number Ru1961

Date Application Received 12/04/1961

Application Received and Checked By Ellison Onizuka

| | | | | | | | |
|-----------|--|-------------|---|-----------|--|------------|--|
| Permitted | | Conditional | ✓ | Temporary | | Prohibited | |
|-----------|--|-------------|---|-----------|--|------------|--|

Trade Waste Consent Approval Date 1/05/1961

Trade Waste Consent Approved By Ellison Onizuka

Trade Waste Consent Number RU1961

Trade Waste Consent Expire Date 30/04/1966

Application Fee

Fee \$ NA

GST \$ NA

Total \$ NA

Cashier Receipt

File Number

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