

GLADSTONE REGIONAL COUNCIL TRADE WASTE APPLICATION



INFORMATION FOR APPLICANTS

APPROVAL SYSTEM

The Trade Waste application must be completed to obtain Council approval to discharge Trade Waste to sewer. It is the responsibility of the property owner to obtain this approval. Should more than one trade waste generator exist on a property then forms should be completed for each individual generator. In this instance one approval will be used to cover multiple businesses and the property owner will be billed for this combined waste. Minimum charges still apply for each trade waste generator.

Council will process the application to issue a Trade Waste Permit or negotiate a Trade Waste Agreement with the property owner. Hereafter the property owner will be billed biannually for trade waste discharges. The Permit/Agreement will contain the conditions and obligations of the trade waste permit/agreement holder. It is the responsibility of the property owner to update Council if circumstances in the Permit/Agreement change. A plumbing and drainage clearance certificate must be issued before a trade waste permit will be issued.

Under the Water Supply (Safety and Reliability) Act 2008 heavy penalties can be applied to businesses discharging without approval.

GENERAL INFORMATION FOR FILLING OUT APPLICATION

The trade waste approval process will be an interactive process between the trade waste generator and Council. It is acceptable to leave some sections blank if the information isn't obtainable. Council's Trade Waste officer will contact you if additional information is required.

If you have any problems please contact Council's Water and Sewerage Department on:

Telephone: 4970 0722.

Email: TradeWaste@gcc.qld.gov.au

If in any section you do not have enough room to provide all information, include it on a separate page and attach it to your application.

GENERAL CONDITIONS OF PERMITS AND AGREEMENTS

Only liquid waste that conforms to Council's Sewer Admission Limits (or limits contained in a written Agreement) will be accepted for discharge to sewer.

Permit and Agreement Renewals

There is no time limit on trade waste permits and agreements, however, they must be renewed in the following circumstances:

- change in the waste generator (lessee) of a premises,
- change in the nature of business/trade conducted on the premises
- alteration to any of the processes involved in the generation of trade waste, including methods of pre-treatment
- change of ownership to a premise

Charges

A minimum fee applies to all discharges to cover administration and inspection costs and will apply when charges based on the quantity and quality formula are less than the minimum fee.

Charges for high volume Category A and Category B discharges will be estimated on data supplied with the Permit Application and adjusted on renewal of Permit based on actual discharge at the per kilolitre rate.

The minimum charge and the estimated charge will be invoiced to the generator at the time of issue of Permit.

Any additional charges incurred because of non-compliance (eg. laboratory charges, inspection fees) will be billed to the generator on a sundry debtor basis.

Sewer Admission Limits

Council has established upper limits for commonly discharged substances that can be accepted as trade waste, these are contained in Schedule 1. Concentration limits for metallic elements only apply if the total waste discharged in a day exceeds the lower daily mass load. The lower daily mass load and concentration limits are contained in Schedule 4.

GENERAL LIMITS	
Parameter	Concentration (mg/L - except*)
Temperature *	Not to exceed 38° C
pH *	6.0 – 10.0
Biochemical Oxygen Demand (BOD ₅)	300
Chemical Oxygen Demand (COD)	600
Total Organic Carbon (TOC)	600
Suspended Solids	300
Total Dissolved Solids (TDS)	4000
Total Oil/Grease (hexane extraction)	200
Gross Solids	Maximum linear dimension of non-faecal solids < 20 mm Settling rate < 3 m/hr
Colour *	Limited to not give any discernible colour treated effluent
Odour *	Not detectable in 1% dilution or causing an odour problems in sewer
Chlorine (as Cl ₂)	10
Sulphate (as SO ₄)	1000
Sulphite (as SO ₂)	100
Surfactants - Anionic (MBAS)	500
Aluminium (as Al)	100
Iron (as Fe)	100
Ammonia plus ammoniacal ion (as N)	100
Total Kjeldahl Nitrogen (as N)	150
Total Nitrogen (Total N)	165
Phosphorus (Total P)	50
Manganese (as Mn)	100
Boron (B)	100
Bromine (Br ₂)	10
Fluoride (F)	30
Cyanide (CN)	5
Sulphide (S)	5
Formaldehyde (HCHO)	50
Phenolic compounds (as Phenol)	100
Pentachlorophenol	5
Petroleum Hydrocarbons	30
Halogenated Aliphatic Hydrocarbons	5
Halogenated Aromatic Hydrocarbons (HAHs)	0.002
Polychlorinated biphenyls (PCBs)	0.002
Polybrominated biphenyls (PBBs)	0.002
Polynuclear Aromatic Hydrocarbons (PAHs)	5

GENERAL LIMITS

Parameter	Concentration (mg/L - except*)
Pesticides: General (insecticides/herbicides/fungicides)	1.0
Pesticides: Organophosphates	0.1
Azinphos-methyl	
Azinphos-ethyl	
Coumaphos	
Demeton	
Dichlorvos	
Dimethoate	
Disulfoton	
Fenitotion	
Fenthion	
Malathion	
Methamidophos	
Mevinphos	
Omethoate	
Oxydemeton-methyl	
Parathion	
Triazophos	
Trichlorfon	
Pesticides: Organochlorines	
Aldrin	0.001
Chlordane	0.006
DDT	0.003
Dieldrin	0.001
Heptachlor	0.003
Lindane	0.1

- + The total mass load and the capacity of the sewerage system to accept the load shall be considered for each application.
- # Council may in some circumstances accept waste containing higher concentrations of these substances. Additional charges for treatment (section 7.1.2) will apply.
- ++ Specify analytical method

PROHIBITED DISCHARGES

Prohibited Substances as defined in Schedule 1 of the Water Supply (Safety and Reliability Act 2008)

- Flammable/explosive substances.
- Radioactive substances except as allowed for under the *Radiation Safety Act 1999 and Radiation Safety Regulation 1999*.
- Pathological and infectious waste and Cytotoxic waste except as allowed for under the *National Guidelines for Waste Management in the Health Industry*, National Health and Medical Research Council, 1999.
- Genetically modified (engineered) organisms.
- Rainwater, stormwater and uncontaminated water.

SPECIFIC METALIC LIMITS

Concentration limits apply when the load discharged exceeds the established lower load.

Parameter	Maximum Concentration mg/L	Lower Daily Load g/day
Arsenic (As)	5	15
Cadmium (Cd)	2	6
Chromium (Cr)		
Total	20	75 *
Hexavalent	10	
Cobalt (Co)	10	30
Copper (Cu)	10	75
Lead (Pb)	10	30
Mercury (Hg)	0.05	0.15
Nickel (Ni)	10	30
Selenium (Se)	5	15
Silver (Ag)	5	15
Tin (Sn)	10	30
Zinc (Zn)	10	75

Any substance not listed in the above tables is a prohibited discharge and may not be discharged without prior approval of Council. Council may request specific demonstrable evidence based on degradability and toxicity for any substance when assessing acceptance to sewer.

TERMINOLOGY

COD	Chemical Oxygen demand - a measure of the amount of oxygen required to oxidise the organic matter in waste by a strong chemical oxidant. It includes both biodegradable and non-biodegradable organic material.
Domestic sewage	Faecal matter and urine of human origin and liquid household wastes from water closet pans (pedestals), sinks, baths, basins and similar fixtures designed for use in private dwellings.
Metals	Refers to substances listed in Schedule IV of Sewer Admission Limits (Specific Limits Metals) plus aluminum and iron.
SS	Suspended solids - the insoluble solid matter in wastewater
Sulfur	Includes sulfate, sulfite, sulfide, thiosulfate and metabisulfite.

ADDITIONAL INFORMATION FOR COMPLETING THE TRADE WASTE APPLICATION

Property Owner Details

Property Owner: The property owner is the owner of the property the business/businesses is located on. Where multiple businesses are located on a property one trade waste permit/agreement will be issued to the property owner to cover these. Trade Waste bills are forwarded to the property owner.

Waste Generator Details

Waste Generator: The waste generator is the company/business producing the liquid waste.

Property Details

Background Council uses your water meter to estimate the amount of trade waste you discharge. Your water consumption is multiplied by a discharge factor between 0-100%. The factor represents the proportion of water used that ends up as trade waste. A discharge factor has been established for most industries. Where a trade waste meter is not installed.

Water Meter The **water meter number** appears on the top of your water meter and is generally a combination of numbers and letters.

Your business may have an individual water meter, or may share one with neighboring businesses. If your meter is shared you will need to include the number of businesses you share the meter with.

Waste Characterisation

Low risk Council has identified a number of businesses that provide a low risk to the sewerage system. If your business is one of these categories indicate by ticking the appropriate box. You will not need to provide a full characterisation of your waste in the next section.

If your business does not fit into one of the categories on the low risk list and you believe the waste you produce is low strength, you can indicate this by selecting "other" and providing a description of your business. Based on your business processes we will then decide if you can be exempt from including the contaminant concentration data. If you do have an idea of your contaminant loads it is preferable for you to include this in the form.

Other discharges Businesses producing waste of high strength, or businesses that are deemed to have a risk of discharging high strength waste must provide details of their waste characteristics. This will include the concentrations of specific parameters listed by Council and any other contaminants.

These businesses must also complete the methodology used for obtaining concentration information. Appropriate methodologies might include:

- Effluent sample tested in external laboratory
- Effluent sample tested in house
- Results of a monitoring program
- Results from similar business
- Estimate contaminant discharge from input load

Waste Characteristics

Nature of business Describe what your business does, what it produces, the different elements of your business, specialising fields etc.

Processes Generating Waste

List all processes in your business that generate trade waste. This does not include waste from toilets and bathrooms. If possible include a description of the process and the waste produced.

Section 6: Time and Volume of Discharge

Discharge Volume For Category A and B discharges where a trade waste meter is not installed, the volume of trade waste will be estimated by multiplying the water consumption of the property by a discharge factor. Discharge factors are specific to industry and are contained in the table below.

Industry/Business Type	Discharge
Bakery (only bread cooked on site)	25%
Bed & Breakfast	NA
Brewery/Distillery	80%
Butcher	90%
Car Wash	70%
Carpet Cleaner	90%
Commercial Laundry/Drycleaner/Laundromat	92%
Concrete Batching Plant	5%
Crafts/Stonemason	80%
Dentists	80%
Engineering Works/Workshop	70%
Fast Food	60%
Fishery	90%
Food Processor	90%
Hairdresser/Salon	50%
Hospital	80%
Hotel/Tavern/Night Club	25%
Nursery/Landscaping	20%
Nursing Home	50%
Outdoor Sports Club	To be calculated
Panel Beating/Spray painting	70%
Printing	85%
Restaurant/	50%
Service Station	70%
Shop/Shopping Centre/Showroom	50%
Swimming Pool Complex	10%
Takeaway	50%
Utility (electricity, telephone, water, sewerage)	90%
Veterinary Clinic	20%
Workshop – mechanical/engineering	70%

For Category B and high volume category A discharges, volume must be measured by an approved flow measuring device.

Time of Discharge Routines and patterns in discharge times should be included to allow Council to ensure maximum peak periods are catered for.

Pre-treatment Devices

Pre-treatment Most businesses will need pre-treatment equipment to separate non-sewerable material/liquid from waste going to sewer. The following table lists some examples of equipment for businesses.

PRE-TREATMENT DEVICES	
Device	Industry / Application
Grease arrestor	Food industries (restaurants, cafes, fast food outlets, butchers, delicatessens etc.) mechanical workshops , vehicle washing areas.
Sink screen/strainer	Food industries including: restaurants, cafes, fast food outlets veterinary surgeries, hairdressers.
Coalescing plate interceptor (oil separator)	Mechanical workshops, car detailing.
Vertical gravity separator	Mechanical workshops, car detailing, vehicle washing areas
Hydrocyclone separation system	Car detaling, mechanical workshops
Cooling pit	Laundromat
Balancing, averaging, neutralising pit/tank	Laundromat, swimming pool, secondary schools with science laboratories
General purpose pit	Jewellers
Solids settlement pit/silt arrestor	Car detailing, vehicle washing areas, stone work industry.
Baffled settlement pit	Optical retail services
Lint screen	Laundromat
Plaster arrestor	Ceramics workshops, potteries, stonecutting, doctor's surgery
Silver Recovery Unit	Dental Surgery

Servicing Contractor

Businesses must nominate a contractor to service their pre-treatment equipment. Contractors should be registered with Council.

Monitoring and Inspection

Self-Monitoring Businesses that discharge Category B waste will need to develop an effluent monitoring program and submit it with the application.

The program should monitor the strength of discharge and particularly any parameters that are being charged for. Council will audit the results to verify their accuracy. The details of the program will be negotiated prior to signing the Agreement. The Agreement will include details of the required sampling program and the transfer of data to Council, Council's proposals for auditing and methods to be used for estimation of data lost due to failure of sampling program or flow measurement instrumentation. Self-monitoring data cannot be used for prosecution purposes.

Council Monitoring A sampling point for each trade waste stream must be provided by the Generator of the Trade Waste.

To ensure compliance with Sewer Admission Limits and conditions of the Permit, Council may inspect the property and collect samples of trade waste for analysis. Should the results of testing exceed the defined limits for Category A and Category B charges will be applied.

Council may impose penalty charges, terminate the Permit/Agreement to discharge trade waste to sewer when the conditions of a Permit/Agreement are not met and/or prosecute any person for breach of the Water Supply (Safety & Reliability) Act 2008 and the Local Government Act 1993.

Section 10: Plans

These are to be provided with the application. If you do not have copies of the appropriate plan Council may need to charge an additional fee to provide you with copies from our records.

Office Use Only

Trade Waste Category Based on the information you supply Council will nominate a discharge category for your trade waste. The following table describes the discharge categories.

Parameter	Category A Low Strength/Any Volume	Category B High Strength/Any Volume	Licensed Carriers Regulated Waste	
			Low Strength	High Strength
Chemical Oxygen Demand (COD), mg/L	< 600	> 600	< 1,200	> 1,200
Suspended Solids, mg/L	< 300	> 300	< 600	> 600
Total Kjeldahl Nitrogen, mg/L N	< 80	> 80	N/A	N/A
Total Phosphorus, P,mg/L	< 15	> 15	N/A	N/A
Volume, kL/annum	All	All	N/A	N/A
Trade waste approval	Permit	Agreement	N/A	N/A
Charges	Annual Charge plus usage (per kL) if discharge exceeds 250kL	Annual Charge plus usage and pollutant charges (see section 6.1.1)		

Waste is classified as Category B if one or more parameters exceed Category B limits. Fees for Category B waste will be determined on the basis of waste characteristics.

Discharges to sewer in ALL Categories must conform to Council's Sewer Admission Limits unless otherwise specified in the Permit or Agreement.

Council may, at its discretion, negotiate with a Generator acceptance of waste to sewer for which a General Limit Parameter(s) (Schedule 1), exceeds the Sewer Admission Limit. Penalty charges will apply for such parameters.

In the event of a significant change in the strength or volume of a waste approved under Category A, the waste will be treated as a Category B waste for the purposes of charging and monitoring.