

Policy Title:	Sewerage Trade Waste
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INTRODUCTION:

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2. OBJECTIVES

To regulate and minimize the entry to Councils Infrastructure of all substances which cannot be effectively treated and to ensure that North Burnett Regional Council adequately protects employees, assets and the environment (receiving waters) from harmful trade waste substances.

3. POLICY

This policy may be cited as the “North Burnett Regional Council Trade Waste Policy”. The short title is “Trade Waste Policy”

4. DEFINITIONS

Arrester – A device designed to intercept and retain silt, sand, oil, grease, sludge or other pollutants. More commonly called a trap includes a grease trap

Council – means the North Burnett Regional Council

Discharger – means an entity

Effluent – The liquid discharge following a wastewater treatment process.

Entity – means a person, individual, occupier, owner, partnership or a corporation, also called a Discharger

Infrastructure – The terms Infrastructure and Council’s Infrastructure means, for the purpose of this policy, Council’s Sewer System, including pipe work, manholes, pump stations and treatment plant.

Premises – Any lot, tenancy or separate area where Trade Wastes are generated or likely to be generated.

Trade Waste – the Water Supply (Safety and Reliability) Act 2008 (Schedule 3 – Definitions) defines ‘Trade Waste’ as being any water-borne waste from business, trade or manufacturing premises, other than –

- a) Waste that is a prohibited substance; or
- b) Human Waste; or
- c) Stormwater.

Trade Waste Approval – Written approval from North Burnett Regional Council for an entity to discharge trade waste to Council’s Infrastructure and can be referred to as a trade waste permit or permit.

Trade Waste Generator – An entity whose activity produces or has the potential to produce trade waste.

5. CONTROL OF TRADE WASTE

5.1 This policy is made pursuant to the Water Supply (Safety and Reliability) Act 2008, Water Act 2000 and the Environmental Protection Act 1994.

5.2 It is an offence to discharge trade waste to Council's infrastructure unless that entity holds a current Trade Waste Approval from North Burnett Regional Council.

The Water Supply (Safety and Reliability) Act 2008, Section 193 states:-

1. A service provider must not discharge trade waste into a local government's infrastructure without the approval of the local government under section 180. Maximum penalty—1665 penalty units.
2. A person, other than a service provider, must not discharge trade waste into a local government's infrastructure without the approval of the local government under section 180. Maximum penalty—1665 penalty units.
3. A person must not discharge trade waste into a service provider's infrastructure without the written consent of the service provider. Maximum penalty—1665 penalty units.
4. A person must not discharge a prohibited substance, surface water, soil, sand or rock into a service provider's infrastructure. Maximum penalty—1665 penalty units.
5. A person must not discharge water from an ornamental pond, a swimming pool or the filtration system of a swimming pool into a service provider's infrastructure without the written consent of the service provider. Maximum penalty—500 penalty units.

5.3 Trade waste is not to be discharged into Council's Stormwater drainage system.

5.4 Trade wastes from commercial and industrial premises will only be accepted into Council's infrastructure subject to conditions as set out in this policy and in the form of a Trade Waste Approval and in accordance with appendix 2 and appendix 3.

5.5 There are three (3) types of approval:

- Category 1 wastes (Minor Discharger)
- Category 2 wastes (Major Discharger – trade waste complies within limits)
- Category 3 wastes (Major Discharger – trade waste requires further treatment before being discharged into Council's infrastructure.

5.6 Premises that generate trade waste listed in appendix 2 may require pre-treatment by means of an arrestor. To determine the size and characteristics of an arrestor refer to appendix 3.

5. CONTROL OF TRADE WASTE (continued)

- 5.7 An entity will only be eligible for a Major Discharger Approval when they comply with the limits contained in Appendix 1. These limits are absolute maximums and Dischargers are encouraged to undertake and implement waste minimization and/or an effluent improvement programmes to improve trade waste discharge quality.
- 5.8 Failure by an Entity or waste generator to comply with the conditions of their permit may result in cancellation of the trade waste permit. Upon cancellation of the trade waste permit the discharge of trade waste to Councils infrastructure must cease. Council will take all reasonable steps to ensure that any unauthorised trade waste discharge ceases.
- 5.9 Where damage to Council's infrastructure occurs Council will recover the cost of those repairs to its damaged infrastructure from the entity causing that damage. Council will also recover costs from an entity where a discharge of a prohibited substance, into Council's infrastructure occurs, whether or not any physical damage results, without, or in contravention of, a trade waste permit issued by Council.

6. APPLICATION

- 6.1 An application, signed by the Entity or Trade Waste Generator must be lodged with Council, on the approved Trade Waste Application form, for any premises where trade waste is generated or likely to be generated. The application is required to be submitted:
- following the processing of a development or building application for a premises;
 - change of tenancy of a premises;
 - change of ownership of a premises; and
 - from an existing premises where trade waste is generated and Council's infrastructure is affected.
- 6.2 Applications should fully detail the proposed uses for the site and include details of methods proposed for any on-site pre-treatment of trade wastes and include details of any trade waste reduction strategies to be implemented to reduce the amount of trade waste or waste generated (refer to Appendix 2). Plans of proposed methods for pre-treatment should be forwarded to Council for consideration of approval with the application.
- 6.3 Plumbing and drainage work associated with the installation of any pre-treatment processes shall comply with the Plumbing and Drainage Act 2002 and regulations.

6. APPLICATION (continued)

- 6.4 Application forms or any further information can be obtained from any Council office or by contacting:

North Burnett Regional Council
PO Box 390
GAYNDAH QLD 4625

by phone on: 1300 696 272
by fax on: (07) 4161 1425

7. TRADE WASTE APPROVAL

- 7.1 A Trade Waste Approval will be issued subject to payment of the prescribed fee and compliance with the discharge criteria. The Trade Waste Approval will state the terms and conditions that the waste generator must observe to discharge trade waste to Council's infrastructure. Such conditions may relate to:

- a) type of pre-treatment equipment to be installed;
- b) the permitted rate of discharge to Council's infrastructure; and
- c) the type of trade waste that will be accepted.

- 7.2 A permit cannot be transferred.

- 7.3 A new Trade Waste Approval will be required should any person (entity) other than the holder of the Approval become responsible for the discharge. In the event of a new application the Council will take into consideration relevant conditions at the time of application and therefore Trade Waste Approval conditions may vary.

8. TRADE WASTE CHARGES

- 8.1 Charges for trade waste will be levied annually in accordance with the following criteria and Council's adopted schedule of fees and charges. Fees will be commensurate with the costs, including capital works costs, for accepting and treating the trade waste in accordance with the following categories.

Parameter	Category 1	Category 2	Category 3
Biochemical Oxygen Demand (BOD5), mg/L	<600	<600	>600
Chemical Oxygen Demand (COD) mg/L	<600	<600	>600
Suspended Solids Mg/L	<600	<600	>600
Volume (kL Annum)	<500	>500	>500
Charge	As per Councils fees and charges	Quantity based Minimum fee applies as per Councils fees and charges	Quantity/Quality based Minimum fee applies as per Councils fees and charges

8. TRADE WASTE CHARGES (continued)

8.2 It is the responsibility of the entity or waste generator to install, operate and maintain 'best practice' pre-treatment devices or processes to ensure trade waste admission limits are not exceeded.

8.3 **Category 1** for low strength/low volume
Trade Waste Approval Fee: Standard Approval Fee (Council's Fees and Charges)

Category 2 for Low Strength/High Volume discharges.
Trade Waste Approval Fee: fee based on total annual quantity (volume) of trade waste discharged to Council's Infrastructure (Council's Fees and Charges)

Assessed via: $C = Qk$: where
C is annual charge (\$)
Q is annual volume (kL)
k is the unit charge rate (\$/kL)

Category 3 for High Strength and/or High volume discharges.
Trade Waste Approval Fee: Quantity and Quality charge on annual loads of Trade Wastes discharged to Council's Infrastructure (Council's Fees and Charges)

Assessed via: $C = Qk + Qx_1 + Qx_2 \dots$ where
C is annual charge (\$)
Q is annual volume (kL)
k is the unit charge rate (\$/kL)
 x_1, x_2 are the unit charge for the average pollutants (mg/L)

9. DISCHARGE QUANTITY

9.1 The volume of waste discharged shall be estimated from the total metered water consumption, less an allowance for domestic waste and water consumed upon the allotment. Generators should provide information as to the amount of water used for these purposes from the property.

9.2 High volume category 2 generators are encouraged to install an approved flow measurement device.

9.3 Category 3 waste generators shall have an approved flow measurement device installed on the trade waste discharge stream which should be separate from the water supply stream.

10. DISCHARGE QUALITY

- 10.1 Quality checks for category 1 and 2 approvals are for compliance checking only, and this shall be performed by Council as part of the annual inspection and monitoring program.
- 10.2 Category 3 Dischargers may carry out self monitoring and must submit to Council sufficient data to enable the average mass load for the period and results for the parameters specified within the permit to be determined. Council shall inspect the premises and audit the test results as specified in the agreement. Council will also collect and analyse samples for overall assessment of compliance with sewer admission limits.

11. MONITORING

- 11.1 It is the responsibility of the Trade Waste Generator to ensure that both the quality and quantity of the trade waste discharged are in accordance with the provisions of the approval and Council's acceptance standards as determined by Council from time to time.
- 11.2 Authorised Council officers may enter the premises to carry out inspections and collect samples for analysis. Council may recover additional costs for testing fees and (if limits are found to have been exceeded) additional inspection fees.

12 DISCHARGE OF PROHIBITED SUBSTANCES

- 12.1 The Discharger shall not allow any substance to enter the Council's Infrastructure except as provided for by the trade waste approval and this policy.
- 12.2 The following shall not be discharged to any Council Infrastructure:
- Flammable/explosive substances
 - Radioactive substances
 - Pathological, infectious and Cytotoxic wastes
 - Genetically engineered organisms
 - Stormwater

APPENDIX 1

WASTE LIMITS

Trade Wastes are by definition prohibited substances and as such they cannot be discharged to any Council Infrastructure without a permit. The nature and levels of the prohibited substances shall comply with the following specifications unless amended criteria are specified within the trade waste permit.

GENERAL LIMITS AND CHARACTERISTICS

Measure	Criteria
Temperature	< 38 deg C
Discharge Rate	As determined by Council and contained within permit
Odour	Not detectable in 1% dilution
pH	6 – 10
BOD	Not to exceed 300mg/L
COD	Not to exceed 1500mg/L
Suspended Solids	Not to exceed 500mg/L
Dissolved Solids	Not to exceed 4000mg/L
Total Grease and Oils	200mg/L and no floating layer
Chlorine (Cl ₂)	10mg/L
Sulphate (SO ₄)	1500mg/L
Sulphite (SO ₂)	15mg/L
Surfactants – (anionic MBAS)	500mg/L
Aluminium (Al)	100mg/L
Iron (Fe)	100mg/L
Ammonia (NH ₃)	100mg/L
Total Kjeldahl Nitrogen (N)	150mg/L
Phosphorus	50mg/L

SPECIFIC LIMITS – INORGANIC

Compound	Criteria
Boron (B)	100mg/L
Bromine (Br ₂)	10mg/L
Fluorine (F)	30mg/L
Cyanide (CN)	5mg/L
Sulphide (S ²⁻)	5mg/L

Specific Limits – Metals

Compound	Criteria	
	<u>Concentration</u>	<u>Mass Load</u>
Arsenic (As)	5mg/L	15g/day
Cadmium (Cd)	2mg/L	6g/day
Chromium (Cr)	10mg/L	30g/day
Cobalt (Co)	10mg/L	30g/day
Copper (Cu)	10mg/L	30g/day
Lead (Pb)	10mg/L	30g/day
Manganese (Mn)	10mg/L	30g/day
Mercury (Hg)	0.05mg/L	0.15g/day
Nickel (Ni)	10mg/L	30g/day
Selenium (Se)	5mg/L	15g/day
Silver (Ag)	50mg/L	15g/day
Tin (Sn)	10mg/L	30g/day
Zinc (Zn)	10mg/L	30g/day

Either the concentration or mass load may be used. However once the Mass load is exceeded, only the concentration method is to be used.

Specific Limits – Organic

Compound	Criteria
Formaldehyde	50mg/L
Phenolic Compounds	100mg/L
Pentachlorophenol	5mg/L
Petroleum Hydrocarbon	30mg/L
Halogenated Aliphatic Hydrocarbons	5mg/L
Halogenated Aromatic Hydrocarbons	(PCB) 0.002mg/L (PBB) 0.002mg/L
Polynuclear Aromatic Hydrocarbons	(PAH) 5mg/L
Pesticides	
General	1mg/L
Organophosphates	0.1mg/L
Organochlorin's Aldrin	0.0001mg/L
Chlordane	0.006mg/L
DDT	0.003mg/L
Dieldrin	0.001mg/L
Heptachlor	0.003mg/L
Lindane	0.1mg/L

Any substance not listed above is a prohibited discharge and may not be discharged to trade waste without prior written approval of Council. Council may request demonstrable evidence of any unlisted substance.

APPENDIX 2

TRADE WASTE GENERATOR

PRE-TREATMENT METHOD

<p>Car Wash Bay</p> <p>Note: Area to be roofed and bunded to exclude Valve (Y+TWDV) installed</p>	<p>6 Solids settlement pit and associated pumps Above Ground Oil Separator rainwater or alternatively a Trade Waste Diversion</p>
<p>Dental Surgeries</p>	<p>Plaster Arrester, Silver Recovery Unit, Amalgam Separator</p>
<p>Garbage Container Cleaning</p>	<p>Fixed Screen over Floor Waste Grease Arrester</p>
<p>General Workshop, Factory, Mechanical Workshop, Panel Beater</p>	<p>Solids Settlement Pit Above Ground oil Separator</p>
<p>Kennels</p>	<p>Solids Arrester Pit</p>
<p>Laundromat</p>	<p>Flint Screens, Cooling Pit</p>
<p>Photographic Industries or X-Ray Facilities</p>	<p>Silver Recovery Unit (Photographic Industry Code Of Practice)</p>
<p>Service Station Forecourt</p>	<p>Above Ground oil Separator (Bunded to reduce Stormwater Entry)</p>
<p>Radiator Repairs</p>	<p>pH Adjustment and Solid Settlement Pit, Above Ground Oil Separator</p>
<p>Bakery, Hot Bread Shop, Kebab Shop, Bistro, Cafeteria, Take Away Shop, Restaurant, Coffee Shop, Sandwich Shop, etc.</p>	<p>Grease Trap (minimum size 550L) Solids Settlement Pit</p>
<p>Butcher</p>	<p>Fixed Mesh Screen with Basket, Grease trap</p>

Dairy	Biological Treatment may be required depending upon waste characteristics
Hospital Kitchens	Grease Trap – capacity to cool hot discharges to less than 38 degrees C
Pastry Cooking	Grease Trap and Solids Settlement pit with removable basket in the floor wastes
Small Goods Manufacture	Save All Arrester, Dissolved Air Flotation, Grease Trap Biological Treatment

Appendix 3

GUIDELINES FOR SIZING GREASE ARRESTERS

Minimum sized grease trap for connection to Council's infrastructure is 550 litres. However, upon written application, Council may approve a 250 litre grease trap or other grease arrestors complying with the Australian Standards.

Upon application, the service intervals for the relevant grease arrester will to be assessed i.e. should a smaller grease arrester that the minimum required be approved then additional conditions may be required to provide the same level of service that the larger grease arrester would of given (a 250 litre grease trap may be required to be serviced twice as frequently as a 550 litre grease arrester)..

Fixture	Rating (in litres)
Commercial kitchen sink	140
Double bowl or pot sink	280
Basin	30
Bain Marie	40
Dishwasher (Small) 400L, (Medium) 800L, (Large) 1200 L	
Potato Peeler	100
Steamer	100
Wok	140
Mixing Bowl	140
Glass Washer	200
Floor area in M ² for washdown	
Small load	20
Heavy load	40
Restaurant: 0 – 40 people	550
40 – 90 people	1000