

**COMMERCIAL LIQUID TRADE WASTE
APPLICATION FORM
CLASSIFICATION B OR C**

1. DETAILS OF PROPERTY/BUSINESS SUBJECT TO THIS APPLICATION

Business Trading Name: _____

ABN: _____ **Class:** **Class B** **Class C**

Site Address: _____

Suburb: _____ **Post Code:** _____

Lot: _____ **Section:** _____ **DP:** _____

Assessment No. : _____ **Parcel No. :** _____

Business Hours: _____

2. OWNER DETAILS (Not Lessee)

Name(s)/Company Name : _____

Postal Address : _____

Phone: _____ **Mobile:** _____ **Fax:** _____

Email Address: _____

3. APPLICANT DETAILS

Names(s) : _____

Postal Address : _____

Phone: _____ **Mobile:** _____ **Fax:** _____

Email Address: _____

4. OCCUPIERS DETAILS (if differs from above)

Contact person for Business: _____

Phone: _____ **Mobile:** _____ **Fax:** _____

Email Address: _____

5. TYPE OF BUSINESS

If there are multiple business activities that discharge liquid trade waste to the sewerage system, please list details in the following table:

| Shop Number | Pit Number | Trading Name | Business Activities / Processes | Number of Seats | Number of Staff |
|-------------|------------|--------------|---------------------------------|-----------------|-----------------|
| | | | | | |
| | | | | | |
| | | | | | |

6. LIQUID TRADE WASTE EQUIPMENT AND SERVICE / MAINTENANCE DETAILS

Please supply details of all Liquid Trade Waste Equipment and Service/maintenance details at the property

| Pit No. | Existing or Proposed (E or P) | Pre-treatment Equipment | Volume (Litres) or Flow Rate (Litres/Hr) | Date of Last Pumpout and / or Service / Maintenance | Pumpout / Service / Maintenance Frequency (Weeks) | Waste Haulage Contractor / Service Maintenance Contractor |
|---------|-------------------------------|-------------------------|--|---|---|---|
| | | | | | | |
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7. DESCRIPTION OF FLOW

Maximum rate of discharge to sewer _____ kL/hour or L/second

Maximum daily discharge to sewer _____ kL/day

Is there a new meter being installed? Yes No

The maximum daily and instantaneous rate of discharge (kL/h or L/s) is set on the available capacity of the sewer. Large dischargers are required to provide a balancing tank to even out the load on the sewerage treatment works.

Hours of days during which discharge will normally take place

MONDAY TO FRIDAY _____ TO _____

SATURDAY _____ TO _____

SUNDAY _____ TO _____

When are the peak periods of discharge during the day? _____

Type of Discharge: Batch flow Intermittent flow Continuous flow

8. LIQUID TRADE WASTE DETAILS

Please include all details as requested (if insufficient space, attach as clearly labelled appendices).

a) Name of processes generating Liquid Trade Waste:

- i) _____
- ii) _____
- iv) _____
- v) _____
- vi) _____

b) Type and quantity of raw materials processed: _____

c) Description of Waste

Attach details and supporting documentation of data collection method including

- List of all expected pollutants including substances contained in wash down detergents, boiler and cooling water and other sources
- Expected maximum and average concentrations of pollutants
- Sample analysis results of the proposed waste. Acceptable means of sample analysis data collection are:
 - i) Sample analysis results from a similar existing process
 - ii) Collection of the proposed waste from a trial pre-treatment plant
 - iii) Standalone pre-treatment – manufacturer’s waste quality expectations
 - iv) Configured pre-treatment – consultant’s calculations based on experience of a similar installation

Note: *The sample analysis tests shall be carried out by a NATA approved laboratory with accreditation for analysis of the nominated pollutants in the application or a laboratory acceptable to NOW.*

When detailing the nominated pollutants where there is no possibility of discharge to the sewerage system because none of the substance is stored or used at the premises, write “NIL”

| GUIDELINE LIMITS FOR ACCEPTANCE OF LIQUID TRADE WASTES INTO SEWERAGE SYSTEM | | | |
|---|--|--------------|--------------|
| Parameter | Acceptance Guideline Limits* mg/L | Average mg/L | Maximum mg/L |
| BOD ₅ and Suspended Solids | Normally, approved at 300 mg/L each. Concentration up to 600 mg/L and in some cases higher concentration for low mass loadings may be acceptable if the treatment works has sufficient capacity and odour will not be a problem. | | |
| COD | Normally, not to exceed BOD ₅ by more than three times. This ratio is given as a guide only to prevent the discharge of non-biodegradable waste. | | |
| Total Dissolved Solids | Up to 4000 mg/L may be accepted. The acceptance limit may vary depending on an effluent disposal option and is subject to a mass load limit. | | |
| Temperature | Less than 38°C. | | |
| pH | Within the range 7.0 to 9.0. | | |
| Oil and Grease | 100 mg/L if the volume of the discharge does not exceed 10% of the design capacity of the treatment works, and 50 mg/L if the volume is greater than 10%. | | |
| Detergents | All industrial detergents are to be biodegradable. A limit on the concentration of 50 mg/L (as MBAS) may be imposed on large liquid trade wastes. | | |
| Colour | No visible colour when the waste is diluted to the equivalent dilution afforded by domestic sewage flow. | | |
| Radioactive Substances | The discharge must comply with the Radiation Control Act 1990. | | |

+ Council may vary the acceptance limits having regard to the discharge characteristics and capacity of its sewerage system.

| ACCEPTANCE GUIDELINES FOR INORGANIC COMPOUNDS + | | | |
|---|----------------------------------|--------------|--------------|
| Parameter | Acceptance Guideline Limits mg/L | Average mg/L | Maximum mg/L |
| Ammonia (as N) | 50 | | |
| Boron | 25 | | |
| Bromine | 5 | | |
| Chlorine | 10 | | |
| Cyanide | 5 | | |
| Fluoride | 20 | | |
| Nitrogen (total Kjeldahl) | 100 | | |
| Phosphorus | 20 | | |
| Sulphate (SO ₄) | 100 | | |
| Sulphide (as S) | 1 | | |
| Sulphite (as SO ₃) | 15 | | |

+ Council may vary the acceptance limits having regard to the discharge characteristics and capacity of its sewerage system.

| ACCEPTANCE GUIDELINES FOR ORGANIC COMPOUNDS + | | | |
|---|----------------------------------|--------------|--------------|
| Parameter | Acceptance Guideline Limits mg/L | Average mg/L | Maximum mg/L |
| Formaldehyde <i>*Acceptance of chemical toilet waste which contains formaldehyde will be assessed on the available dilution in the sewerage system</i> | 50* | | |
| Phenolic compounds (except pentachlorophenol) | 10 | | |
| Petroleum hydrocarbons (non-flammable) | 30 | | |
| Pesticides (general) | 0.1 | | |
| Pesticides (organophosphates) | Nil | | |
| Pesticides (organochlorines) | Nil | | |

+ Council may vary the acceptance limits having regard to the discharge characteristics and capacity of its sewerage system.

ACCEPTANCE GUIDELINES FOR METALS +

For small discharges, a daily mass load criteria may be used other than the concentration limit. An upper daily mass load can be applied to a large liquid trade waste discharge in addition to the concentration limit.

| Parameter | Acceptance Guideline Limits mg/L | Allowed Daily Mass Limit g/d | Average mg/L | Maximum mg/L |
|---|---|-------------------------------------|---------------------|---------------------|
| Aluminium | 100 | - | | |
| Arsenic | 1 | 2 | | |
| Cadmium | 2 | 6 | | |
| Chromium* | 5 | 15 | | |
| <p>* Where hexavalent chromium (Cr⁶⁺) is present in the process water, pre-treatment will be required to reduce it to the trivalent state (Cr³⁺), prior to discharge into the sewer. Discharge of hexavalent chromium (Cr⁶⁺) from chromate compounds used as corrosion inhibitors in cooling towers is not permitted.</p> | | | | |
| Cobalt | 5 | 15 | | |
| Copper | 5 | 15 | | |
| Iron | 100 | - | | |
| Lead | 2 | 6 | | |
| Manganese | 10 | 30 | | |
| Mercury | 0.02 | 0.05 | | |
| Molybdenum | 10 | 30 | | |
| Nickel | 5 | 15 | | |
| Selenium | 5 | 15 | | |
| Silver* | 2 | 6 | | |
| Tin | 5 | 15 | | |
| Zinc | 5 | 15 | | |

+ Council may vary the acceptance limits having regard to the discharge characteristics and capacity of its sewerage system.

* This limit is applicable for large dischargers. The concentration of silver in the photoprocessing waste where a balancing tank is provided is not to exceed 5 mg/L.

d) Non sewerage system discharges/wastes

Details of management arrangement of waste streams/wastes that are not permitted or not intended to be discharged to the sewerage system

e) Special Circumstances

Where the applicant considers there are special circumstances applicable to their discharge, these circumstances should be identified, eg:

- Seasonal discharges
- Large differences between average and maximum daily loads
- Variations to flow, which avoid peak domestic flows, etc
- Retention of discharges for extended periods

Comments

f) Open Areas (Please attach stormwater drainage plan for the site)

Does the proposed installation contain open areas that will drain to the sewerage system? Yes No

If yes, give details _____

Stormwater is prohibited from being discharged into the council's sewerage system. The capacity for such flows is not provided in the sewerage system. Therefore, council does not generally accept the discharge of stormwater into the sewerage system.

The discharge of limited quantities of first flush water from liquid trade waste generating areas will be considered where roofing cannot be provided because of safety or other important considerations.

Please provide the following information:

- reasons why the area cannot be fully or partially roofed and bunded to exclude stormwater;
- the dimensions and a plan of the area under consideration;
- the estimated volume of the stormwater discharge;
- information on rain gauging;
- information on a first flush system if proposed;
- measures proposed for diverting stormwater away from the liquid trade waste generating area; and
- report on other stormwater management options considered and why they are not feasible.

g) Water Supply Source

- Bore/ground water/on site dam/watercourse
- Recycled/reuse water
- Town water
- Any water supply meter being installed

Comments

Location of sampling point _____

h) Flow measurement location and proposed flow measurement to sewer

Please attach details of flow measurement installed/proposed

i) Details of the chemicals to be used on site

| Substance | Qty | Storage liquid/solid | Location | Bunding |
|-----------|-----|----------------------|----------|---------|
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Note: Attach Material Safety Data Sheets prepared in accordance with the National Code of Practice (NOHSC : 2011) for chemicals to be used and are likely to be contained in the waste effluent.

j) Any proposed plans for future expansion? Yes No

If yes, give details

9. PROHIBITED SUBSTANCES

The following substances are prohibited from being discharged into the sewerage system:

- Organochlorine weedicides, fungicides, pesticides, herbicides and substances of a similar nature and/or wastes arising from the preparation of these substances;
- Organophosphorus pesticides and/or waste arising from the preparation of these substances;
- Any substances liable to produce noxious or poisonous vapours in a sewerage system;
- Organic solvents and mineral oil;
- Any flammable or explosive substances;
- Discharges from "Bulk Fuel Depots";
- Chromate from cooling towers;
- Natural or synthetic resins, plastic monomers, synthetic adhesives, rubber and plastic emulsions;
- Rain, surface, seepage or subsoil water, unless specifically permitted;
- Solid matter;
- Any substance assessed as not suitable to be discharged to the sewerage system; and
- Waste liquids that contain pollutants at concentrations which inhibit the sewage treatment process – refer *Guidelines for Sewerage Systems: Acceptance of Trade Waste (Industrial Waste)* (ARMCANZ/ANZECC, 1994).

10. PLANS AND SUPPORTING DOCUMENTS

Please attach any relevant supporting documentation. For example:

- Environmental Impact Statement
- Consultant's report
- DEC considerations/restrictions

Application to be accompanied by two (2) copies of plans showing:

- details and location of all processes, tanks, pits and apparatus associated with the generation of liquid trade waste
- details of the proposed liquid waste treatment processes
- details of pipes, floor drainage used to convey the effluent
- a full schematic layout of the proposed/existing waste pre-treatment facilities for liquid trade waste prior to discharge to the sewerage system
- flow diagram and hydraulic profile of proposed treatment apparatus
- capacity/dimensions, material of construction and lining, operation and maintenance of all pits, tanks, dosing systems, pumps, etc
- details of the integrity of the pH correction system (diversion system, recording, alarms – location, failsafe, tamperproof)
- Any additional details as requested by Council

ADDITIONAL INFORMATION/COMMENTS

| | | |
|---------------------------|-----------------------------------|-------------|
| Signature of owner | Print Name (Block Letters) | Date |
|---------------------------|-----------------------------------|-------------|

| | | |
|---|-----------------------------------|-------------|
| Signature of Trade Waste Officer | Print Name (Block Letters) | Date |
|---|-----------------------------------|-------------|