Liquid Trade Waste

Large or Industrial Dischargers

Category 3 Classification C



Definition

Liquid trade waste (LTW) is any discharge to a sewerage system other than domestic waste from a hand wash basin, shower, bath or toilet.

Central Coast Council is referred to as Council.

Introduction

This Fact Sheet is provided to assist you to treat and dispose of liquid trade waste in an efficient and approved manner.

For further information, please contact Council's Trade Waste Section on 1300 463 954 For LTW application forms, refer to www.centralcoast.nsw.gov.au.

Activities

Category 3 comprises high risk and large liquid trade waste dischargers where concurrence must be sought by the Council from the Director-General of the NSW Department of Industry Water.

High risk, large or industrial dischargers are those conducting an activity that:

- is of an industrial nature, and/or
- discharges volumes that exceed 20 kL/d

Large dischargers include

AbattoirFeather WashingOil RecyclingAcid PicklingFellmongerOil RefineryAddesive/Latex ManufactureFell ManufacturePaint ManufactureAgriculture and Veterinary Drugs ManufactureFertilisers ManufacturePaint ManufactureAluminium ProcessingFibreglass ManufacturePater ManufactureAnodisingFibreglass ManufacturePater ManufactureBakery (wholesale)Fibre CleaningPet Food ProcessingBatter wholesale)Food ProcessingPlants Nursery (Open Areas)Bottle WashingFood ProcessingPlants Nursery (Open Areas)Butter (wholesale)Fruit Juice (factory)Polato ProcessingButcher (wholesale)Fruit Juice (factory)Polato ProcessingCaroboard and CartonGalvanisingPolato ProcessingManufactureGlass ManufactureSeafood ProcessingCarpet ManufactureGlass ManufactureSeafood ProcessingCareat ManufactureGlass ManufactureSeafood ProcessingCondiments/SaucesIndustrial Waste TreatmentSoft Drink ManufactureCondiments/SaucesLaboratory Agriculture ResearchSaugr RefineryCondiminated Site TreatmentLaboratory Agriculture ResearchTanker WashingCondiments/SaucesLaboratory Agriculture ResearchTanker WashingCondiments/SaucesLaboratory Agriculture ResearchTanker WashingCondiments/SaucesLaboratory Police Trink ManufactureTanker WashingCondiments/SaucesLaboratory Police Trink Manufacture <th colspan="6">Discharger</th>	Discharger					
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Manufacture	Engine/Gearbox Reconditioning	Metal Finishing	Winery			
Extrusion and Moulding Mirrors Manufacture Yeast Manufacture		Metal Processing	Wool Processing			
	Extrusion and Moulding	Mirrors Manufacture	Yeast Manufacture			

Application to Discharge Liquid Trade Wastes into Council's Sewerage System



Manufacturing Industry Category 3

OFFICE USE ONLY					
CATEGORY 3:	Date: Fee Paid \$ Debtor HOT KEY:				
For further enquiries on the application process, please contact the Liquid Trade Waste Supervisor on 4350 5515.					
Business Trading Name Principal Business Activity					
Development Application	No. Lot No.	D.P.	Parcel No.		House No.
Street		Suburb			Postcode
Property Owner's Name		I	Telephone	e No. / Email	
Address					
Applicant's Name (if differ	ent from Propert	y Owner)	Telephone	Telephone No. / Email	
Applicant's Address (if diff	ferent from Prope	rty Owner)			
Occupier's Name (if different from Property Owner)			Telephone	Telephone No. / Email	
DESCRIPTION OF FLOW					
Proposed date of Hours of business operation commencement of		Hours of t	Hours of the day during which discharge takes place		
discharge to the	arge to the Mon-Fri		Mon-Fri	Mon-Fri	
sewerage system	Sat		Sat	Sat	
	Sun		Sun	Sun	
Average daily discharge to sewer (kL)	Maximum rate	Maximum rate of discharge to sewer kL/hr L/sec		Maximum daily discharge to sewer (kL)	
Any water supply meter being installed? Yes No			Meter loca	Meter location	
EXISTING / PROPOSED EQUIPMENT (GREASE ARRESTOR, BASKET ARRESTOR, COOLING PIT, ETC)					
Туре		Size/flow rate			

Pre-treatment equipment		Frequency (weeks)	
Name of Contractor	Contact number		
Location of sampling point			
Refer to Council's <u>Liquid Trade Waste Policy</u> and their allowable limits	for the Liquid Trade Waste	Quality Standards, which lists pollutants	
SUBSTANCES PROHIBITED FROM BEING DIS	CHARGED TO THE SEWERA	GE SYSTEM	
The following substances are prohibited from b	eing discharged to the sewer	rage system:	
 organochlorine weedicides, fungicides arising from the preparation of these substance 		ubstances of a similar nature and/or wastes	
organophosphorus pesticides and/or	waste arising from the prepar	ration of these substances	
any substances liable to produce noxious or poisonous vapours in the sewerage system			
 organic solvents and mineral oil 			
 any flammable or explosive substance 	5		
 discharges from 'Bulk Fuel Depots' 			
chromate from cooling towers			
 natural or synthetic resins, plastic mor 	omers, synthetic adhesives, r	ubber and plastic emulsions	
 rain, surface, seepage or subsoil water 	unless specifically permitted	I	
solid matter			
 any substance assessed as not suitable 	any substance assessed as not suitable to be discharged to the sewerage system		
waste liquids that contain pollutants a National Wastewater Source Management Guid		t the sewage treatment process – refer	
 any other substances listed in a relevant 	nt regulation.		
Signature of Property Owner/s			

Owner's authorisation to making the application is mandatory as per Section 78 of the Local Government Act 1993

Please note that the owner of the property will be billed for water supply, sewerage and liquid trade waste services provided and it is the owner's responsibility to pay such fees and charges within the period specified. The owner may arrange to recover such fees and charges through the lease agreement between the owner and the occupier.

The applicant should be aware that approval of this application does not constitute a guarantee of any future approval of a variation to the approval. This will be dependent on the available capacity of the sewerage system at that time and any future approval must not be assumed. However, alerting the Council to the applicant's future plans and proposals may assist the Council in planning future sewage management and / or infrastructure additions / modifications.

Signature of occupier / applicant

Position in company

Date

Manufacturing Industry Application Attachment Sheet

Please fill out this attachment sheet if your business involves manufacturing processes that discharge liquid trade waste to the sewerage system. In the table below, tick the business type that best describes what your business does.

BUSINESS TYPE			
Abattoir	Cosmetic	Food	
Metal plating / anodising	Paper products	Other (please specify)	

Application to Discharge Liquid Trade Wastes into Council's Sewerage System Additional Details Required For Discharger Category C

The following pages are to be used to include additional information required from businesses that wish to discharge Concurrence Classification C liquid trade wastes to the sewerage system. Please include all details as requested (if insufficient space attach as clearly labelled appendices), and make sure you read the section on substances that must not be discharged to the sewerage system.

Name of processes generating liquid trade waste

Type and quantity of raw materials processed

Description of waste:

- 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.

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.

Acceptable means of sample analysis data collection:

- Sample analysis results from a similar existing process
- Collection of the proposed waste from a trial pre-treatment plant
- Stand alone pre-treatment manufacturer's waste quality expectations
- Configured pre-treatment consultant's calculations based on experience of a similar installation

Attach details and supporting documentation of data collection method.

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".

Pollutant	Acceptance Guideline Limits	
Aluminium (AL)	 100 mg/L	
Ammonia (as N)	50 mg/L	
Arsenic (As)	1 mg/L *	
Barium (Ba)	10 mg/L *	
Biological Oxygen Demand (BOD₅)	600 mg/L	
Biocides	Nil	
Boron (B)	25 mg/L *	
Bromine (Br ₂)	5 mg/L	
Cadmium (Cd)	2 mg/L *	
Chlorinated Hydrocarbons	Nil	
Chlorinated Phenolics	Nil	
Chloride	1000 mg/L	
Chlorine (Cl ₂)	10 mg/L	
Chromate	Nil	
Chromium (cr) (Total) #	5 mg/L *	
Cobalt (Co)	5 mg/L *	
COD	<pre></pre>	
Copper (Cu)	5 mg/L *	
Cyanide	5 mg/L	
Flammable / Explosive substances	Nil	
Fluoride (F)	20 mg/L	
Formaldehyde	50 mg/L	
Grease / Oil	100 mg/L	
Herbicides / Weedicides / Fungicides	Nil	
Iron (Fe)	100 mg/L	
Lead (Pb)	2 mg/L *	
Lithium (Li)	5 mg/L *	
Methylene Blue Active Substances (MBAS)	50 mg/L	
Manganese (Mn)	10 mg/L *	
Mercury (Hg)	0.02	
Molybdenum (Mo)	10 mg/L *	
Nickel (Ni)	5 mg/L *	
Nitrogen (N) (Total Kjeldahl Nitrogen)	100 mg/L	
Pentachlorophenol	Nil	
Pesticides – General	Nil	
Pesticides – Organo-chlorine	Nil	
Pesticides – Organophosphate	Nil	
PCB	Nil	
Petroleum Hydrocarbons (non-flammable)	20 mg/L	
PH	7.0 - 9.0	
Phenolic Compounds	Nil	

Phosphorus (Total)	10 mg/L
Polynuclear Aromatic Hydrocarbons (PAH)	Nil
Pollutant	Acceptance Guideline Limits
Selenium (Se)	5 mg/L *
Silver (Ag)	2 mg/L *
Sulphate (SO ₄)	500 mg/L
Sulphide (S)	1 mg/L
Sulphite (SO ₃)	15 mg/L
Suspended Solids (SS or NFR)	300 mg/L
Temperature	38°C maximum
Tin (Sn)	5 mg/L *
Total Dissolved Solids	1000 mg/L
Zinc (Zn)	5 mg/L *
Other Substances	Nil refer notes

Notes to Quality Standards and Excluded Substances

Flow Rate – 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 sewage treatment works.

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 1900.

Chromium # - Where hexavalent chromium (Cr^{6+}) is present in the process water, pre-treatment will be required to reduce it to the trivalent state (Cr^{3+}), prior to discharge into the sewer.

No discrete oil, fat or grease may be discharged.

Hazardous wastes are totally excluded.

Animal matter (including carcasses but not including human waste), wool, hair, grease, dust, ashes, cinders, soil, rubbish, filth, oil, salt, mud, medical waste, sand, gravel, garbage, offal, vegetable or fruit parings, rags, house refuse, steam or solid matter is prohibited.

Any flammable, volatile solvent or explosive substance are excluded.

Wastes arising from the preparation of pesticides, organo-chlorine weedicides, fungicides, herbicides and substances of a similar nature are not permitted.

Any substance liable to produce noxious or poisonous vapours in the sewerage system is excluded.

Organic solvents and mineral oils are excluded.

Natural or synthetic resins, plastic monomers, synthetic adhesives and rubber plastic emulsions are not permitted.

Waste liquids that contain pollutants at concentrations which inhibit the sewerage treatment process are not permitted – refer to Guidelines for Sewerage Systems: Acceptance of Trade Waste (Industrial Waste) (ARMCANZ/ANZECC, 1994).

The discharge of Hexavalent Chromium (from Chromate compounds) used as corrosion inhibitors or organometallic algicides is not permitted.

Infectious or contagious solid or liquid waste is excluded.

Rain, roof, surface, flood, seepage and / or subsoil waters are not permitted.

Any substance likely to cause injury to personnel employed in the sewerage system or the environment for which the sewage effluent is discharged is not permitted.

Any other matter determined by Council to be of an environmental health or other risk to Council's sewerage system is prohibited.

Substances or mixtures of substances that are not miscible with water are not permitted in the sewer system.

Quality Standards for substances other than those listed in above table in Schedule A are to be determined by Council.

* Total Heavy Metals is the sum of all metals in the waste stream excluding Aluminium, Iron, Manganese and Molybdenum. This shall not exceed 30 mg/L.

The quality of trade waste from some low risk commercial activities in Classification A will exceed guideline limits in this Table. As a higher level of pre-treatment is not cost-effective, such waste is acceptable if the discharger installs and properly operates and maintains the required pre-treatment equipment.

BOD 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.

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

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 sewage treatment works.

Peak periods of discharge during the	day			
Type of discharge				
Batch Flow	Intermittent Flow	Continuous Flow		
Detail any special circumstances appl	icable to the discharge, for example:			
Seasonal discharges				
_	average and maximum daily loads oid peak domestic flows, etc			
Retention of discharges for	extended periods			

Does the proposed installation contain open areas that will drain to the sewerage system?	YES	NO NO
If YES, please give details and attach stormwater drainage plan for the site.		

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 to the sewerage system.				
The discharge of limited quantities of first flush water from se where roofing cannot be provided because of safety or other				
Reasons why the area cannot be fully or partially roofed and bunded	to exclude stormwater			
The dimensions of the area under consideration				
Is the open area sealed? YES NO	Estimated volume of the stormwater discharge			
Information on a first flush system, if proposed				
Measures proposed for diverting stormwater away from the liquid tra	ade waste generating area			
Report on other stormwater management options considered and w	hy they are not feasible			
Identify the water supply source				
Bore / groundwater / on-site dam / watercourse	Town water			
Recycled / reuse water	Any water supply meter being installed			
Flow measurement location and proposed flow measurement to sew	er (attach details of flow measurement installed / proposed)			
Application to be accompanied by two copies of plans showing:				
• Details and location of all processes, tanks, pits and apparatus associated with the generation of industrial 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 				
	ion system, recording, alarms - location, fail-safe, tamper-proof)			

Proposed cleaning schedule of pre-treatment equipment and contractor				
Substance	Qty	Storage liquid / solid	Location	Bunding
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				
Any proposed plans for future expansion? (If Yes, give details on a separate attachment) YES NO				