



Large Hotels, Resorts or Construction/Mining Camps

For the purpose of this publication, large hotels, resorts or construction / mining camps are defined as a facility which has greater than 180 rooms for accommodation and will generally exclude apartment style hotels which have self-contained room facilities for food preparation.

Permit Requirements

Large hotels, resorts or construction / mining camps discharging to sewer are required to apply for and obtain approval to discharge trade waste. This approval is in the form of a trade waste permit.

The permit attracts an Annual Permit charge, which is invoiced in advance in July each year.

Investigation of trade waste streams within large hotels, resorts or construction / mining camps has identified the following as the main waste producing processes:

- Kitchens (food production/preparation)
- Laundries
- Vehicle wash bays
- Cooling towers (commercial climate control systems)
- Swimming pools

Quality-Quantity Usage Charges

Large hotels, resorts or construction / mining camps attract trade waste quality and quantity (QQ) charges, reflecting the trade wastewater loading they add to the wastewater system. The charges are levied quarterly in arrears. The calculation of QQ charges is based on the type of trade waste activities that discharge to sewer and where applicable the average quality profile the activity produces.

Cooling towers and swimming pools have waste streams with relatively clean profiles and are charged on a volume only basis.

Determination of Quality

An average standard waste quality applies to kitchen, laundry and vehicle wash bays as shown in **Tables 1** below;

Table 1 – Standard waste quality for different waste streams

Waste Process	Cond. mS/m	SS mg/L	BOD5 mg/L	O&G mg/L	TKN mg/L	TP mg/L	Acidity mg/L	SO4 mg/L	Cu mg/L	Zn Mg/L
Kitchen	140	660	1300	340	40	12	115			
Laundry		40	80							
Vehicle wash bay		73	158	14	5	4		51	0.25	0.50

Legend

mS/m	milliSiemens per meter	TKN	Total Kjeldahl nitrogen
mg/L	Milligrams per litre	TP	Total phosphorus
Cond.	Conductivity	Acidity	Acidity to pH 6
SS	Suspended solids	SO4	Sulphate
BOD5	Biochemical oxygen demand	Cu	Copper
O&G	Oil and grease	Zn	Zinc

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Alternatively, the quality of trade waste discharged from the kitchen, laundry and vehicle wash bay may be determined from an ongoing program of periodic sampling and laboratory testing of these discharges to sewer.

Determination of Quantity

The volume discharge from the kitchen, laundry and vehicle wash bay will be determined by either an effluent meter ([Typical Drawing for Trade Waste - Trade Waste Monitoring Point Dwg HX33-20-00](#)) or a process sub-water meter in accordance with the brochure [Trade Waste Pub 09 Flow Metering](#).

Regardless of the type of metering, meters must be located in accessible and safe areas to facilitate reading by the Corporation.

The use of sub-water meters must incorporate both hot and cold water supplies direct into the process and will be subject to the following trade waste discharge factors (TWDF) shown in **Table 2** to determine the chargeable proportion of water deemed as the trade waste volume.

Table 2 - TWDFs for Sub-Water Meters

Waste Process	Trade Waste Discharge Factor
Kitchen	90%
Laundry	85%
Vehicle Wash Bay	59%

Cooling towers are charged on a volume only basis. The volume determined by the installation of a meter on the bleed line prior to discharge to sewer. Refer to information brochure, [Trade Waste PUB 19 Climate Control Waste](#) and [Typical Drawing for Trade Waste – Cooling Towers Dwg HX33-18-40](#).

Swimming pools discharging to sewer are charged volume only. The chargeable volume determined by the installation of an effluent flow meter prior to sewer discharge. Discharge from swimming pools is required to comply with the guidelines as described in the information brochure, [Trade Waste Pub 20 Swimming Pools and Spas \(Aquatic Facilities\)](#) and [Typical Drawing for Trade Waste - Connection to Sewer of Aquatic Facilities Dwg HX33-18-30](#)

Pre-Treatment & Plumbing Requirements

Kitchen

All wastewater (with the exception of the dishwasher) from the kitchen is to discharge to a Water Corporation approved grease arrestor and sized in-accordance with [Trade Waste PUB 23c Grease Arrestor Sizing for the Retail Food Industry](#) and [Typical Drawing for Trade Waste - Grease Arrestor Dwg HX33-10-00](#).

Laundry

All wastewater from the laundry is to discharge to a Water Corporation Approved lint screen and cooling pit in accordance with [Typical Drawing for Trade Waste - Cooling Pit or Boiler Blow Down Dwg HX33-18-50](#) and [Typical Drawing for Trade Waste - Commercial Laundries HX33-18-60](#).

Vehicle Wash Bay

All wastewater from the vehicle wash bay is to discharge to a Water Corporation Approved Oil Water Separator to remove hydrocarbons and settleable solids that may otherwise enter the sewerage system. The Water Corporation's [Typical Drawing for Trade Waste – External Mechanical Washdown Area With Silt Sump Dwg HX33-12-20](#) provides details of a suitable arrangement.

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Single, double or triple interceptors will not be accepted.

Only quick break detergents are to be used.

Cooling Towers

All wastewater from cooling towers is to discharge directly to sewer in accordance with [Trade Waste PUB 19 Climate Control Waste](#) and [Typical Drawing for Trade Waste - Cooling Towers Dwg HX33-18-40](#).

Swimming Pools

All wastewater from swimming pools is to discharge to sewer in accordance with the guidelines as described in the information brochure, [Trade Waste Pub 20 Swimming Pools and Spas \(Aquatic Facilities\)](#) and [Typical Drawing for Connection to Sewer of Aquatic Facilities Dwg HX33-18-30](#). Installation of an appropriately sized balancing tank, settleable solids arrestor and Trade Waste Monitoring Point may be required.

Note: *In regional areas it may not be possible to accept commercial pool waste to sewer due to salt loading in the wastewater system which can affect treated water re-use. The Water Corporation will assess local conditions and advise.*

General Requirements

All associated plumbing work is to comply with Plumbers Licensing and Plumbing Standards Regulations 2000 and latest version of AS/NZS 3500.

More information

You can find more information about the Trade Waste service on our website at <http://www.watercorporation.com.au/home/business/trade-waste> or if you prefer please call us on 13 13 95.