

A scenic view of a river with large rocks and clear water. The water is calm and reflects the surrounding greenery and rocks. The rocks are large and smooth, scattered along the banks. The overall scene is peaceful and natural.

**Trade Waste**

**Presentation to the  
Backflow SIG  
conference**

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# What Is Trade waste

Liquid Waste from a commercial business that is discharged to council sewage system.

Defined by Trade Waste Bylaw,  
Local Government act 2002.



Why do we have a Trade waste bylaw?

To protect council infrastructure.

To protect people working in the sewer.

To protect the treatment plant.

A scenic view of a river with large rocks and green water. The river flows from the top right towards the bottom left, with numerous large, smooth, grey rocks scattered along the banks and in the water. The water is a vibrant green color, likely due to algae or moss. The background shows a lush green forest with sunlight filtering through the trees.

## Protecting infrastructure

# Pipes and pump stations

- Blockages
  - Fats
  - Large solids
- Corrosion.
  - Abrasion
  - Chemical breakdown

# Fat Blockage

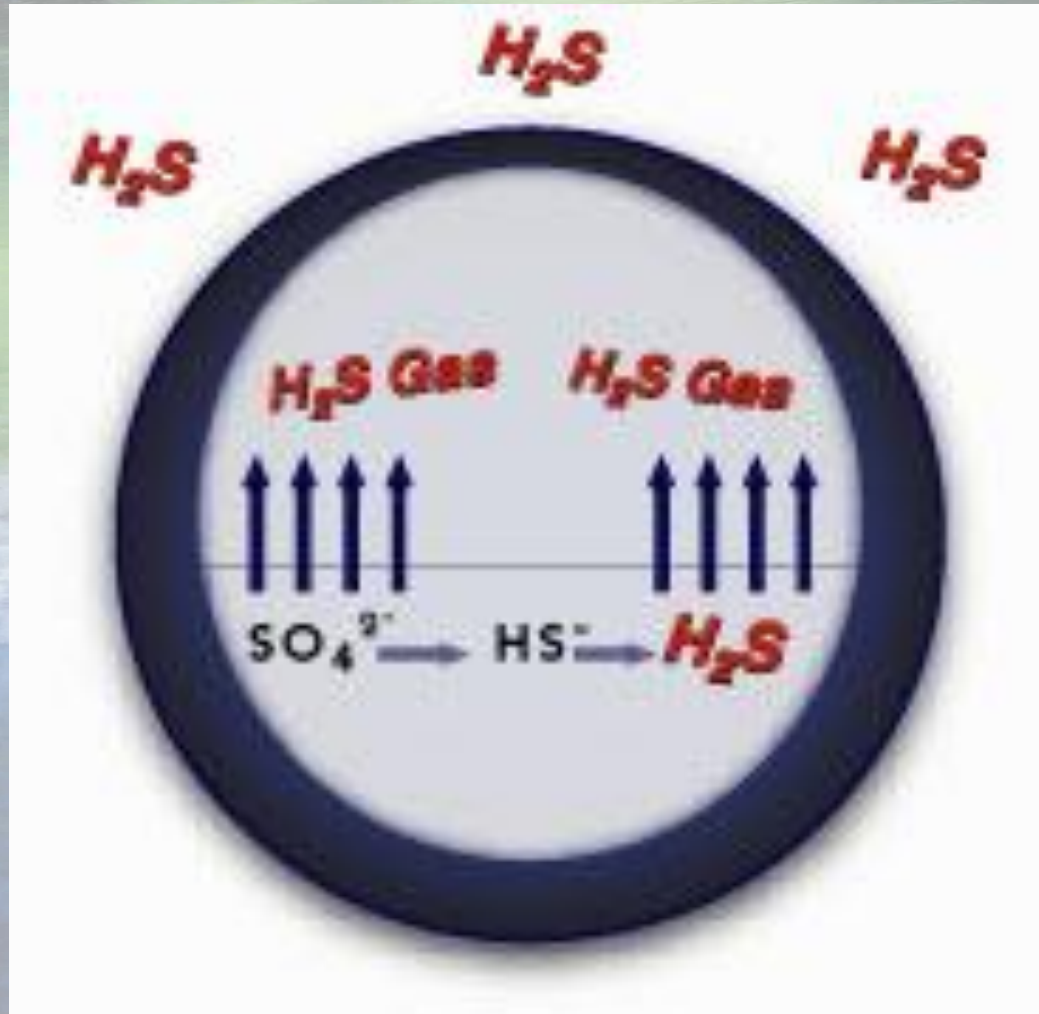


**Grease-clogged  
Pipe**

# Sewer corrosion



# Sewer corrosion





# Protecting People

## Poisonous Gases

- $H_2S$
- Flammable atmospheres



# Protecting Treatment Plants

## Pumps and equipment

- Physical abrasion
- Corrosion

## Treatment Processes – Biological

- High or Low pH
- Chemical poisoning
- Pesticides

# Protecting Treatment Plants

## Treatment Processes – Biological

- High or Low pH
- Chemical poisoning
- Pesticides
- Overloading – High BOD
- Interference with UV disinfection

# Protecting Treatment Plants



By Product of Treatment Process

- Biosolids/Sewage sludge
  - Heavy Metals

# Sewage Treatment Plant



# Who are Trade Waste dischargers?

- Chemical processing
- Food Production
  - Abattoir
  - Dairy factory
  - Bakery
  - Restaurant
- Laundries
- Waste Treatment companies.
- Tanneries

# Who are Trade Waste dischargers?

- **Vehicle Washing**
  - Service Station
  - Rental car companies
  - Car groomer
  - Trucking company
- **Metal finishers**
  - Powder coating
  - Aluminium fabricators
- **Dentists**

# Who are Trade Waste dischargers?

Anywhere chemicals are used they must be disposed of when finished with.

Normally through washing processes they end up down the drain.

A scenic view of a river with large rocks and green water. The river flows from the top right towards the bottom left, with many large, smooth rocks scattered along the banks and in the water. The water is a vibrant green color, and the surrounding area is lush with greenery. The title "Backflow Prevention" is overlaid in blue text at the top center.

# Backflow Prevention

Same businesses?

Chemical use is a risk for cross contamination.

Wastewater is a risk.



## What do we see

Hoses used to fill tanks.

Process tanks with water connections and/or hoses left in them.

Wastewater tanks that need to be cleaned.



# Backflow Prevention

We protect Council water supply

We don't protect the water supply within the building.

What do you think?



# Backflow Prevention

Tenants

Dentist

Hairdressers.

Backflow prevention at Boundary or closer to the source of the risk?

Eg. Coffee machines

A scenic view of a river with large rocks and clear water. The water is a mix of green and blue, reflecting the surrounding environment. The rocks are large and light-colored, scattered along the banks. The overall scene is peaceful and natural.

Trade waste

Discussion?