

# City of Bayswater

# Facilitating cooperation from builders and developers to prevent sediment loss

## Why is it important?



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### Issues



- Blocked storm water pits and drains
- Localised flooding
- Pedestrian and traffic hazards
- Public health & environmental concerns
- Nuisance

## Issues





## Main Causes

#### Site works

- De-watering
- Heavy machinery

#### **Construction/ Demolition**

- Cutting/grinding
- Washing down



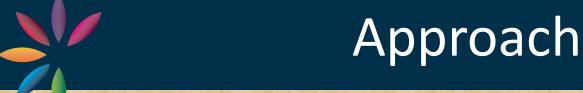




#### Lack of ongoing site management

- Inadequate dust suppression
- Stockpiling
- Insufficient screening







- Education & support
  - Contact developer/builder
  - Site meetings during site works/ construction phase
- Conditions of approval
- Enforcement



## **Education/Support**

- Explain the need for the controls
- Discuss site specific concerns and the potential impacts
- Listen to ideas/ suggestions
  - Are they reasonable?
  - Will they achieve the desired outcome?
- Being available to discuss matters
- Designated officers for unauthorised discharges



#### A management plan is requested which addresses:

- Dust Monitoring
  - For the duration of ground disturbing works or ongoing for problematic areas
  - Strategically positioned locations around the site
  - Live feed with alarms
  - Regular reporting
- Screening
- Soil stabilisation (water/ hydromulch/ vegetation)
- Street sweeping
- Vehicle movements
- Maintenance period





## Enforcement

#### City of Bayswater Health Local Laws 2001

Successful prosecution for dust nuisance – up to \$1,000

#### **Environmental Protection (Unauthorised Discharge) Regulations 2004**

- Successful prosecution up to \$5,000
- Infringement notice \$500

#### **Planning & Development Act 2005**

- Successful prosecution up to \$200,000
- Daily penalties up to \$25,000



# CATCHMENT MANAGEMENT

#### The Issue:

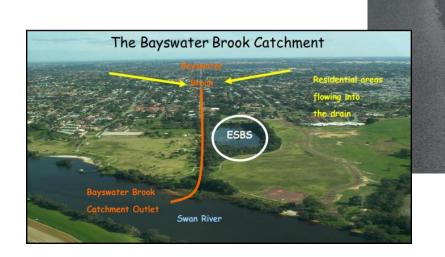
When it rains, sand flows into gutters, blocking stormwater entry pits and drains, causing localised flooding and contributing to the nutrient enrichment and eutrophication of the Swan River, creeks and wetlands.

#### The importance of collaborative partnerships:

- State Government (Department of Biodiversity, Conservation and Attractions, Department of Water and Environmental Regulation, Water Corporation)
- The community.

#### What is being done:

- Constructed wetlands
- Living streams
- Gross pollutant traps
- Street sweeping
- Community education



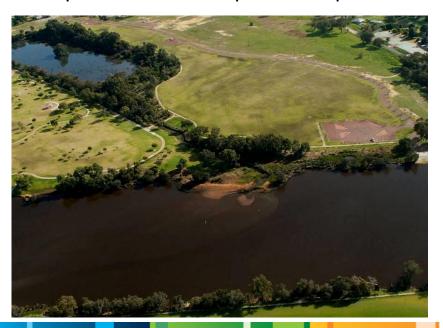
## ERIC SINGLETON BIRD SANCTUARY



Designed to prevent 40 tonnes of sediment and other rubbish from entering the Swan River each year

\$3 million civil re-construction rehabilitation project

Completed in 2015 in partnership with DBCA







## **GROSS POLUTANT TRAPS**





GPTs, street sweeping and gully ducting are effective tools for trapping sediment

#### **COSTS**

- GPT: \$150,000
- Maintenance GPT: \$16,000/year
- Maintenance sedimentation basin: \$17,500/10 years



#### GPTs have been installed at:

- ESBS
- Maylands Lakes
- Beard Elbow
- Wotton Street
- CSBP Fertilisers



# SUPPORT THE COMMUNITY

The City has been working with and supporting the community to develop solutions for improving water quality at the Maylands Lakes

A management plan which aims to reduce sediment, rubbish and leaves entering the Maylands Lakes is now being implemented in collaboration with the community.

One management action is the installation of nets to capture filamentous algae and other debris that can accumulate in the lakes.



