# Neutral or Beneficial Effect on Water Quality (NorBE) Assessment Tool

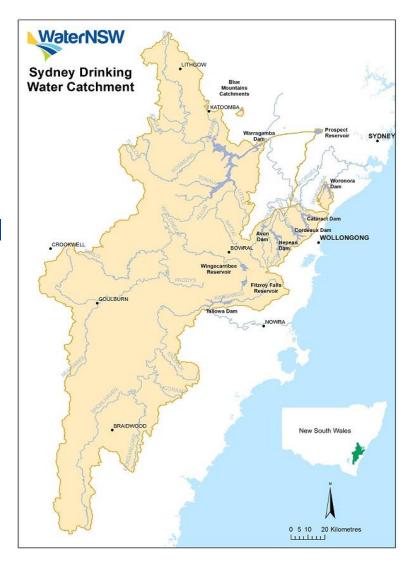
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## **Background**

- WaterNSW manages bulk water supply across NSW
- Manages the Sydney drinking water catchment – supplies 4.5 million people, 16,000km<sup>2</sup>, 15 local government areas
- State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011 – the SEPP
- Neutral or Beneficial Effect on Water Quality – NorBE – mandatory use of NorBE Tool





### What does NorBE mean?

A **neutral or beneficial effect on water quality (NorBE)** is considered to be satisfied if the development:

- has no identifiable potential impact on water quality; or
- will contain any impact on the development site and prevent it from reaching the drainage system; or
- will transfer any impact outside the site for treatment and disposal to the required standard.



### The NorBE Tool

- Custom-built for WaterNSW
- Risk-based approach Modules that group development

Module	Development Type
1	Sewered dwellings, small urban subdivisions (3 lots or less)
2	Unsewered dwellings, small rural subdivisions (3 lots or less)
3	Large urban subdivisions (> 3 lots)
4	Large rural subdivisions (> 3 lots)
5	All other development

Mix of desktop and site assessment



### The NorBE Tool

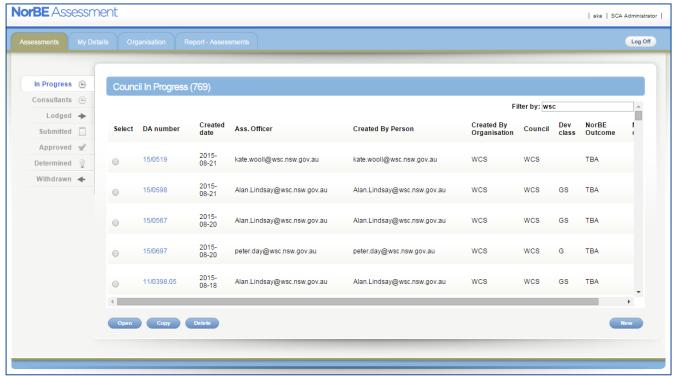
- Considers:
  - development site conditions
  - stormwater impacts
  - wastewater impacts.
- Includes the wastewater effluent model (WEM)



Used by Councils and Consultants.

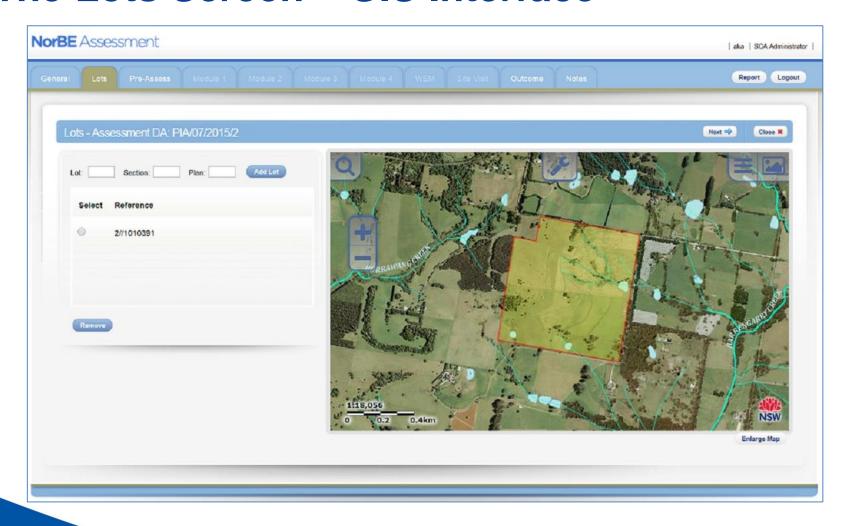
## **Using the NorBE Tool**

- Tailored to users' needs and levels of authorisation.
- Searchable.
- Decision process recorded.



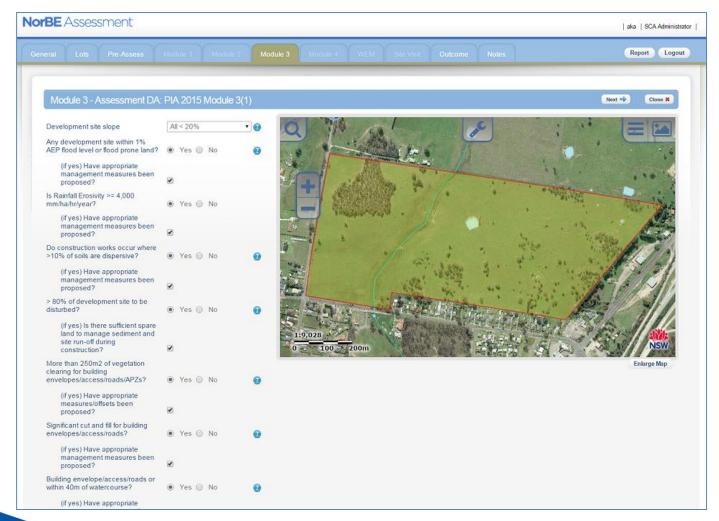


### The Lots Screen – GIS Interface



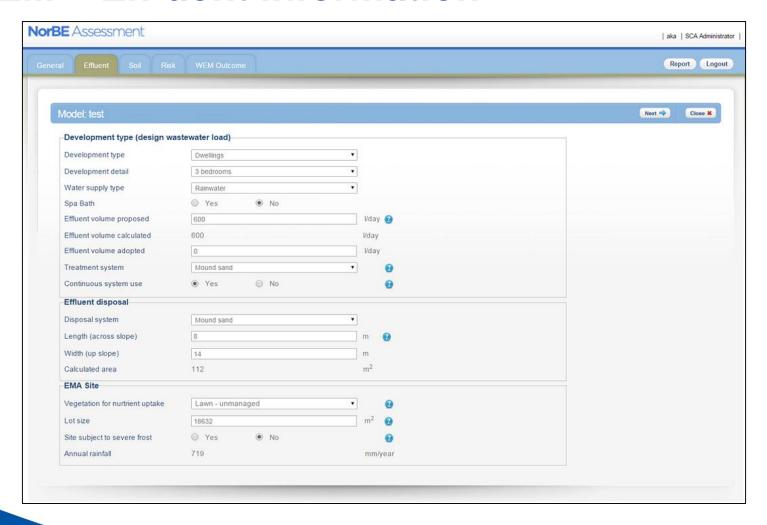


# **Example – Large Subdivisions**



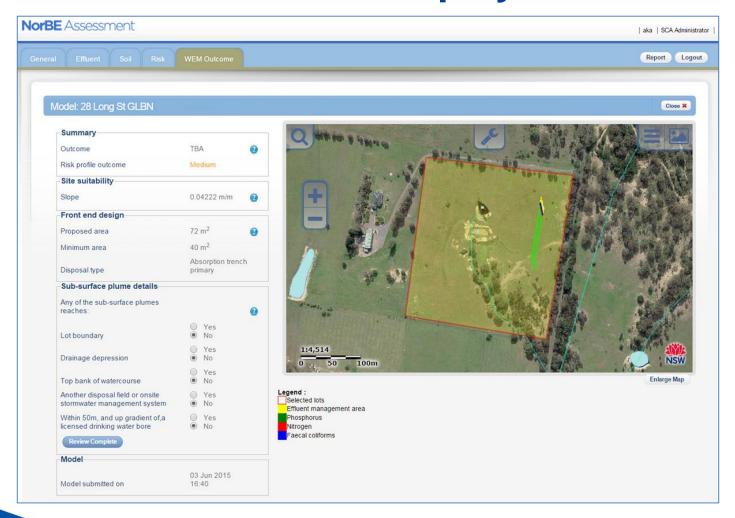


### **WEM – Effluent information**



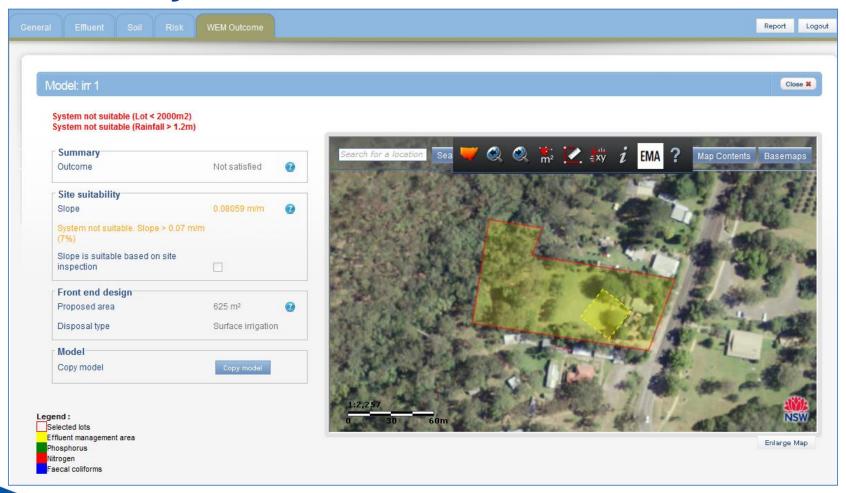


# **WEM – Effluent Plume Display**





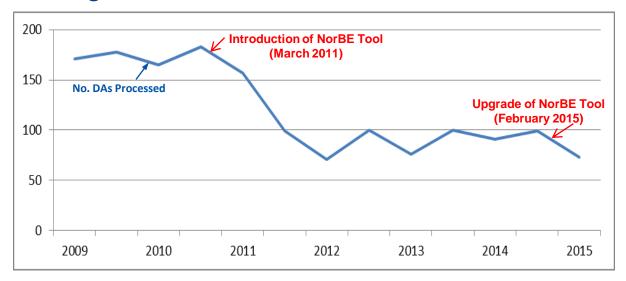
## **WEM – System Constraints**





### **Outcomes**

- Consistency and transparency in assessment.
- Better water quality outcomes through reducing risk.
- Reducing assessment timeframes and costs.



- Transferring skills to consent authorities.
- Enhancing relationships with councils and consultants



# Thank you

