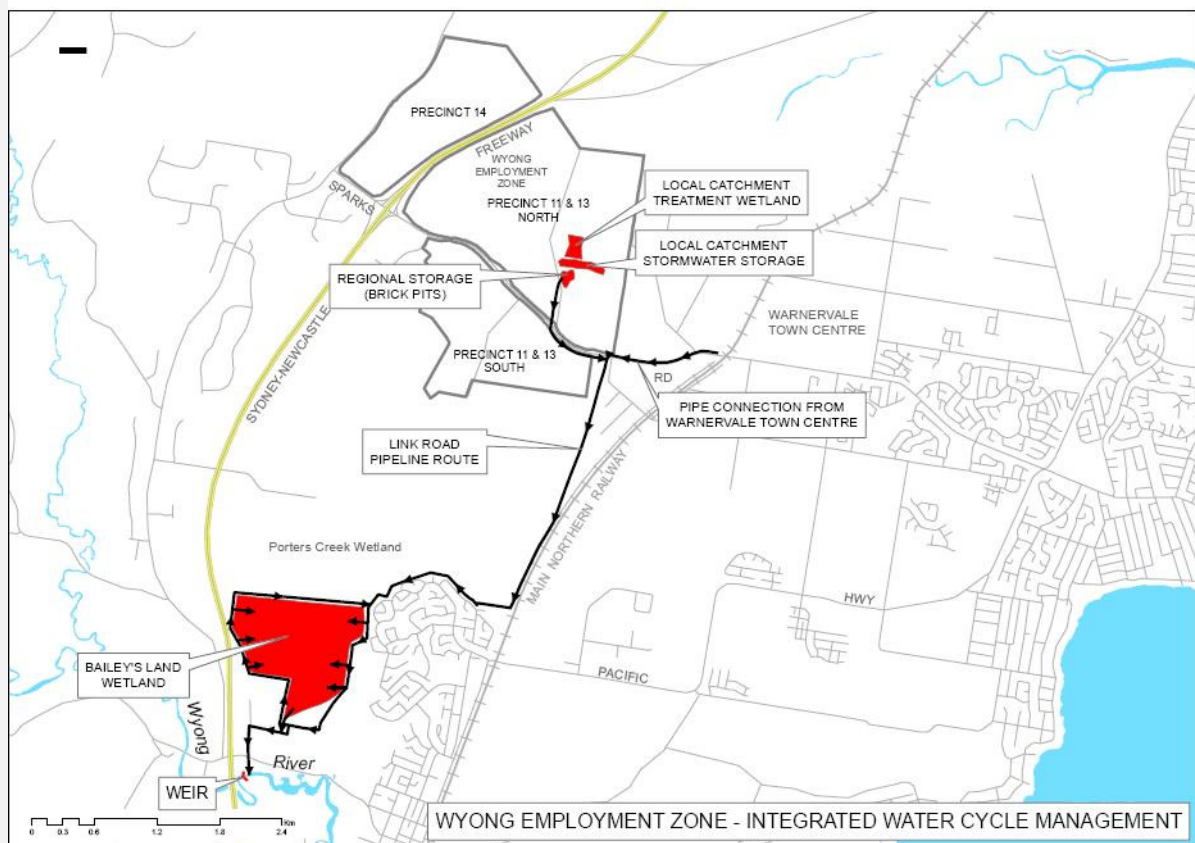


CASE STUDY: Integrated Water Cycle Management

11. The Proposed Porters Creek Stormwater Harvesting Project

Plans to Harvest Stormwater in the Porters Creek Wetland Catchment

- Planning for the Porters Creek Stormwater Harvesting Project is well underway.
- Modelling undertaken to date indicates that the medium to low flows from rainfall events can be transferred out of the stormwater system, thereby maintaining the more natural drying cycles of the wetland and reducing the distribution and frequency of flooding in the wetland.
- The Stormwater Harvesting and Reuse Project proposes a regional stormwater storage system located at a disused brick pit site. Stormwater infrastructure from future and existing developments can be connected to this regional storage system.
- A transfer pipe system will convey treated stormwater from the Warnervale Town Centre area to the regional storage and then on to additional treatment wetlands below Porters Creek Wetland. The transfer pipeline will eventually discharge treated water into the Wyong River weir pool. Discharge will be managed to specifically meet (or help to meet) the downstream environmental flow requirements of the river, developed under the Water Sharing Plan. This will allow similar quantities to be extracted upstream in the weir pool for transfer to the potable water supply that are additional to allocations developed under the Water Sharing Plan.
- A projected average annual stormwater yield under a full development scenario is around 7 gigalitres (based on a piped catchment of 1750 ha of developed area with some 400 ha located in the adjacent Spring and Wallarah Creek catchment). This will allow an expected 5.4 gigalitres of additional extractions with system optimisation.



(Source: Ecological Engineering)

ACTIVITY: List three potential benefits from the Porters Creek Stormwater Harvesting Project.

