

MAP 6: Future Development - Onslow

Intended land use¹

- mixed business/light industrial
- marine support/service industrial
- potential industrial
- mixed use
- residential
- residential/tourism
- tourism
- development investigation area
- subject to odour buffer restrictions and further investigation

Legend

- cadastre
- commercial and civic zone
- industry/strategic industry zones
- urban development zone
- residential R12.5 zone
- Onslow coastal hazard area (special control area)
- wastewater treatment plant
- Water Corporation wastewater treatment plant buffer
- Bindi Bindi wastewater treatment plant buffer (500 m - indicative only)
- possible ring road alignment
- airport

Produced by Infrastructure Planning Branch, Department of Planning.
Base information supplied by: Western Australian Land Information Authority, LI 430-2009-4.
Date: 17/08/2011

¹ Extent of identified areas subject to finalisation of structure plan

Onslow Water Supply Scheme

- * water sourced from Cane River borefield
- * Water Corporation licenced to draw 0.35 GL/a from this source
- * limited capacity to accommodate growth (0.31 GL drawn in 2009-10)
- * borefield considered to have an ultimate capacity which may not satisfy a high demand growth scenario
- * current program to upgrade source, transfer and supply system will likely increase capacity to accommodate 50 per cent more residential and small business connections
- * stage 1 of water supply upgrade (borefield, pump station and pipeline upgrades) expected to be completed in 2013
- * various options to accommodate additional growth currently being investigated including construction of a seawater desalination plant and further expansion of the Cane River borefield
- * estimated cost for desalination plant (2 ML/d) is \$70 m and additional storage tanks \$10 m

Water storage

- T1: 0.25 ML (pressure - ground tank)
- T2: 2.30 ML (ground storage tank)
- T3: 0.10 ML (pressure - elevated tank)
- T4: 5.0 ML - proposed ground storage tank

Inset

Water Corporation operating area (potable water)

Cane River Water Reserve

0 12.5 25
kilometres

Legend

Main frame

- cadastre
- possible expansion areas¹
- operating area - potable water
- storage tank
- storage tank (proposed)
- elevated tank
- elevated tank (proposed)
- pump station
- water main (including local reticulation)

Inset

- public drinking water source area - priority 1 area
- operating area - potable water

¹ Extent of expansion areas subject to finalisation of structure plan

MAP 7:

Water Infrastructure - Onslow

Urban Development Program



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Date: 15/08/2011

Onslow wastewater treatment plant

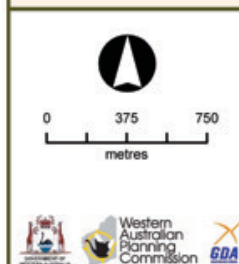
- * treatment capacity 460 kL/d
- * effluent disposal capacity estimated at 290 kL/d
- * capacity available to support limited population growth
- * upgrade to disposal capacity required in the short term (prior to 2013/14)
- * upgrade to treatment capacity required in the medium term (prior to 2016/17)
- * estimated cost of upgrades (pond and infiltration basin expansion, conveyance and reuse system) is \$13.1 m (to 2016)
- * buffer constrains westward development at south of town
- * existing buffer considered sufficient for proposed expansion of treatment facilities

Wastewater treatment plant buffer

- * expansion area identified within wastewater treatment plant odour buffer is being considered as part of the structure planning process
- * land uses in this area will need to consider the odour buffer and its restrictions

Bindi Bindi wastewater treatment ponds

- * site services Bindi Bindi community
- * decommissioning will facilitate residential expansion in this area
- * proposal for Bindi Bindi Community to be connected to Water Corporation facility - issues with compatibility of transfer infrastructure
- * further negotiation required



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Legend

- cadastre
- possible expansion areas¹
- wastewater treatment plant
- Water Corporation wastewater treatment plant buffer
- Bindi Bindi wastewater treatment plant buffer (500 m - indicative only)
- operating area - sewerage services
- sewered areas
- sewer pressure main
- Water Corporation pump station
- private pump station

¹ Extent of expansion areas subject to finalisation of structure plan



MAP 8:

Wastewater Infrastructure - Onslow



