



# B I R D I N H A N D

## WASTEWATER TREATMENT PLANT UPGRADE PROJECT

Happy New Year and welcome to our third newsletter. This edition will provide you with an update on the upgrade of the Bird in Hand Wastewater Treatment Plant. The upgrade is designed to increase the capacity of the treatment plant to cater for predicted growth over the next 25 years and create benefits for Dawesley Creek and the surrounding environment.

Since the last newsletter, construction works have substantially progressed with most building and process structures now completed and mechanical fit-out of the structures just starting. This newsletter will provide details on what works have been completed, what works are underway, the existing day to day operations of the current treatment plant and where to next.

# BIRD IN HAND WASTEWATER TREATMENT PLANT UPGRADE PROJECT

## CURRENT OPERATIONS

While we are constructing the new treatment plant, the current treatment plant has to remain operational to service the catchment area. SA Water is committed, where possible, to minimising discharge of treated wastewater to Dawesley Creek in the summer period. The higher than usual rainfall experienced this summer has already necessitated SA Water to discharge intermittently into Dawesley Creek. These events are monitored by SA Water.

## CURRENT STATUS

The majority of building and process structures are now in place, except for the digester which remains under construction.

Given this, mechanical and electrical fit-out is now occurring within these structures. This work has started in the bio-reactor and will continue progressively into other structures.

Over the next few months, work will be focused on:

- finishing the digester structure
- undertaking earthworks for the 50 megalitre (ML) covered recycled water storage
- mechanical and electrical fit-out of all completed building and process structures
- laying the remainder of the recycled water pipeline.

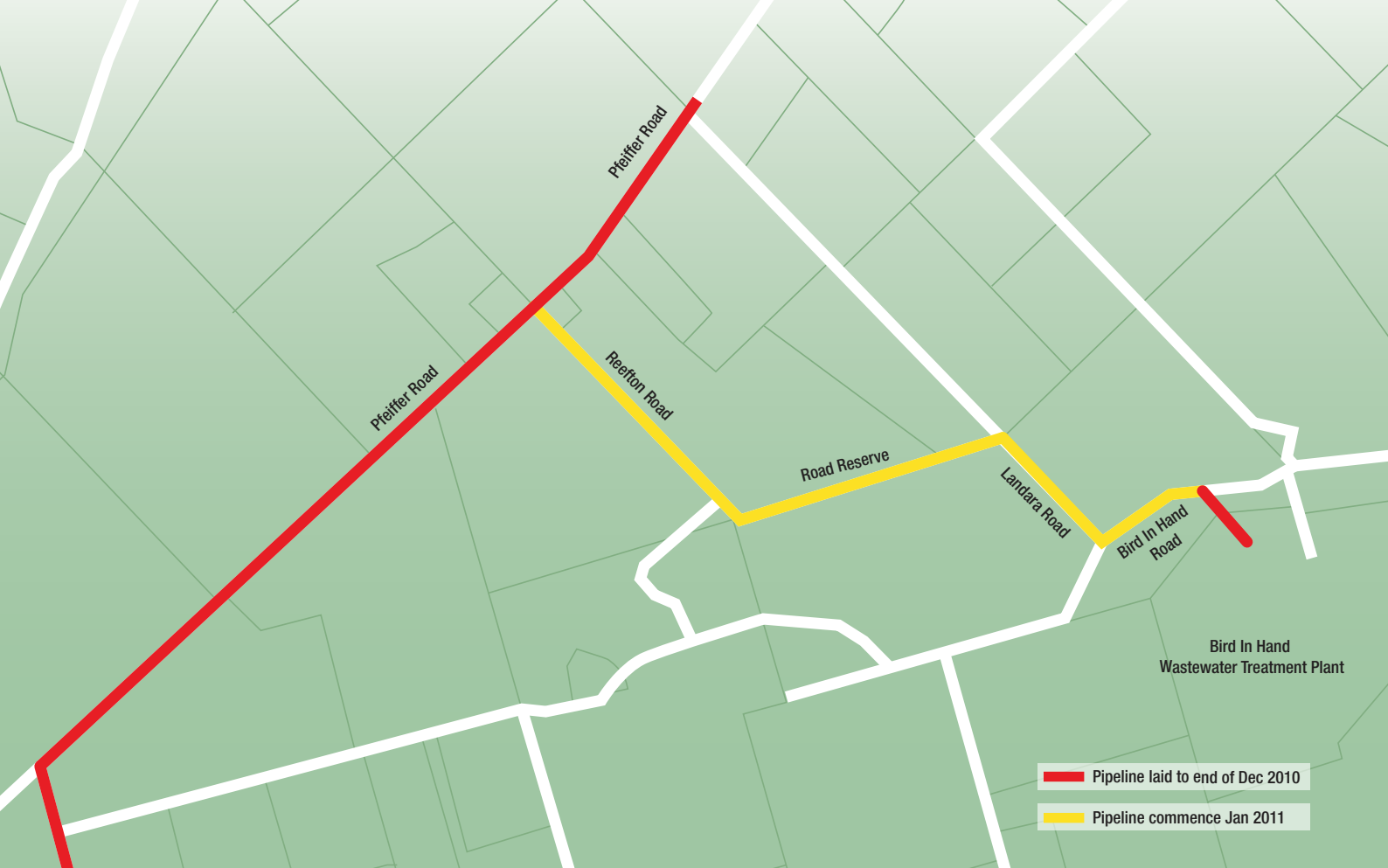
While all works are concentrated within site boundaries, with the exception of the recycled water pipeline, residents living nearby may experience increased traffic in the area and noise from construction activities.



**Digester under construction** – the digester uses microorganisms to break down the biodegradable material. The gas produced through the process will be captured and used to generate heat for the digestion process.



**Bioreactor under construction** – the bioreactor will be used to reduce the nutrients in the wastewater.



## RECYCLED WATER PIPELINE ROUTE

### RECYCLED WATER PIPELINE

Construction of the recycled water pipeline started in November 2010. The pipeline will enable recycled water to be transferred between the treatment plant and surrounding properties, connecting customers along the route to a source of recycled water for pasture and lucerne irrigation.

The recycled water pipeline is being laid predominantly in road reserves, but in some locations on private property as well. Where possible, impacts from the pipeline construction are being minimised. However, residents living near to these works may experience traffic management (e.g. change in speed limit, restriction to one lane where works are required in the road verge), noise from the works and some dust during drier weather.

The above pipeline route indicates what sections of the recycled water pipeline have been completed. To date,

the pipeline has been laid and completed along Pfeiffer Road. The section to be laid in Reefton Road started this month. It is expected that the pipeline will be finished by the end of April 2011 with recycled water available for use by customers from the summer of 2011.

Customers with an interest in connecting to the recycled water pipeline were identified through a Registration of Interest process and follow up discussions. Currently, all available recycled water has been allocated. Additional recycled water may be available to more customers in the future.

The construction of the offsite recycled water pipeline, together with the new 50 ML covered recycled water storage and upgrade of on-site irrigation infrastructure will assist SA Water in meeting our commitment to minimise discharge to Dawesley Creek during the summer period.

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## LANDSCAPING

In September 2010, indigenous local species including River Red Gums and SA Blue Gums were planted along the treatment plant's boundary to Bird in Hand Road. Over time, these plants will provide a vegetation buffer between the new treatment plant and Bird in Hand Road. The plants were supplied by the Dawesley Creek Landcare Group.

## PROJECT DELIVERY SCHEDULE

Construction for the upgrade started in April 2010 and is running to schedule.

### The timeframes:

<b>Structures and site works</b>	Started April 2010 and continuing
<b>Recycled water main</b>	Started November 2010 and continuing
<b>Mechanical installation</b>	Started October 2010 and continuing
<b>Electrical installation</b>	Expected start January 2011
<b>Treatment Plant commissioning</b>	Expected start June 2011

It is anticipated that the new treatment plant will be operating by the end of 2011 with balance of works complete by mid 2012.

## MORE INFORMATION

If you have any questions about the project please contact us:

- **Phone** the SA Water Customer Service Centre on **1800 812 362**
- **Email** [birdinhand@sawater.com.au](mailto:birdinhand@sawater.com.au)

For more information about this and other SA Water projects log on to [www.sawater.com.au](http://www.sawater.com.au)

