

Geeveston Outfall Relocation Project

Community Update

Wednesday 26 October 2022



Introduction

- Acknowledgment of Country
- TasWater Representatives
 - General Manager Project Delivery
 - Department Manager Community, Stakeholder and Customer Relations
 - Acting General Manager Governance and Assurance
 - Leader of Environmental Performance
 - Delivery Manager - Pipelines
 - Manager Capital Engagement
 - Capital Engagement Specialist

Now versus the future

Existing Arrangement

- Capable of fully treating inflow at a rate of 22.2L/s
- No emergency storage
- All incoming flow screened, even in the event of an overflow
- Bypass events have been recorded during wet weather due to inflow and infiltration of stormwater
- Outfall into shallow waters of Kermandie River. The flow of the river is not suitable for effective dilution of the treated effluent
- Continuous discharge via open ended pipe.

Future Arrangement

- Capable of fully treating inflow at a rate of 62 L/s
- New pump station with emergency storage
- All incoming flow screened, even in the event of an overflow
- The risk of bypass events reduced due to the new storage
- Inflow and infiltration investigative projects
- Outfall to deep water (8-9 meters below surface) of the Huon River
- Batched discharge – 90 seconds, 60 times per day, **90 mins per 24 hours** via diffuser on river bed.

Estuarine Outfalls - All monitored and regulated by the EPA

- TasWater manage 110 sewage treatment plants (STP's) across the state
- 9 existing Derwent River/Estuary outfalls
- Monitoring at these outfalls shows minimal impacts to the environment and public health
- Estuary outfall locations are determined by optimum mixing and dilution environments
- Shipwrights Point is the EPA approved location

Geeveston STP – Class B Effluent

Suitable for uses such as:

- Crops for Human consumption
- Pasture and fodder for grazing animals (dairy)
- Non potable council irrigation

A reuse feasibility study was undertaken however, no viable options are available.

Treated effluent

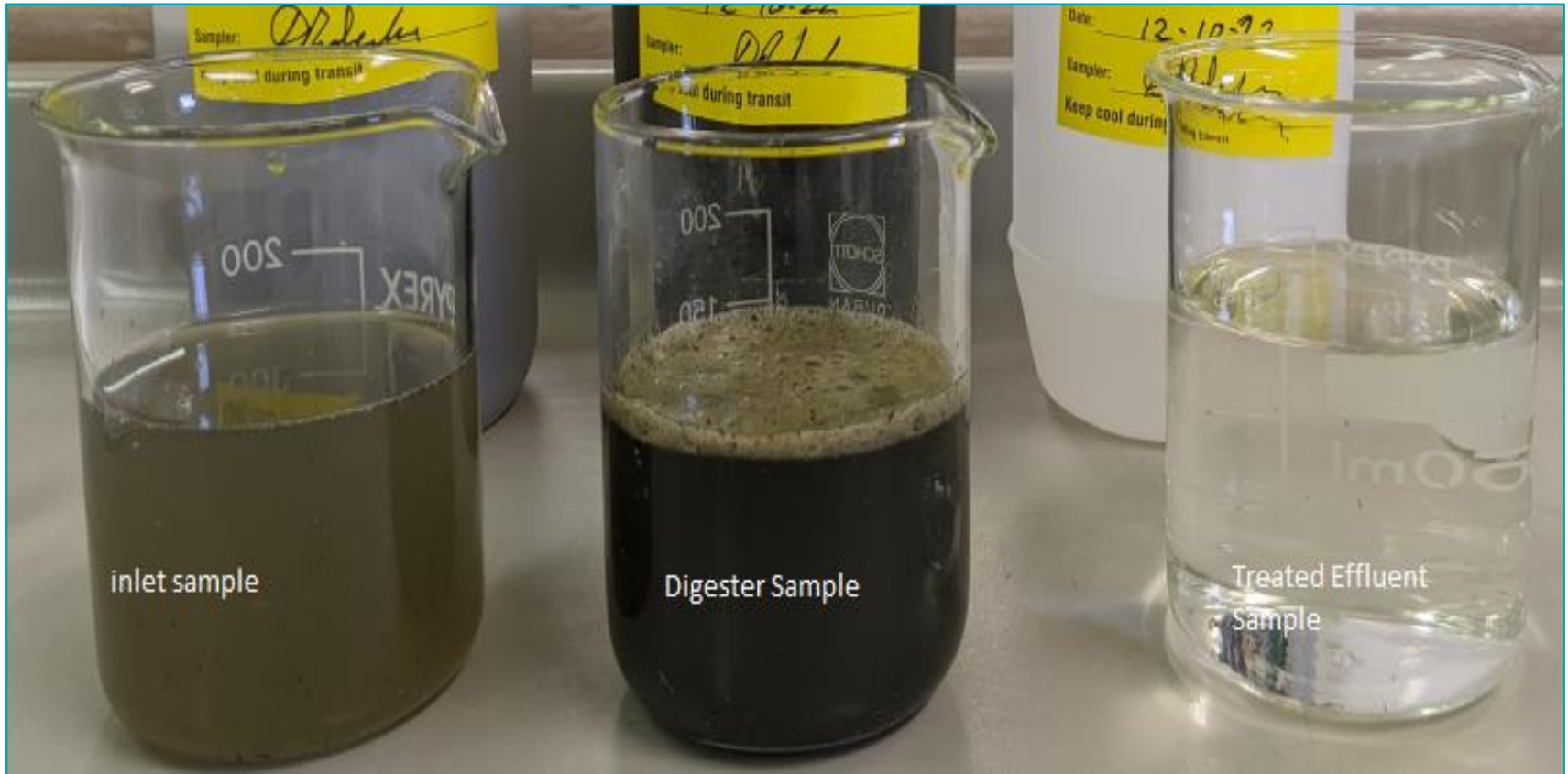


Image – samples from inlet, digester, and treated effluent

Community Concerns – we have heard you

Effluent quality - Effluent quality compliance is within limits set by EPA, the relocation of the outfall will providing improved dilution and environmental outcomes.

Chlorine - There will be less chlorine in the effluent than in drinking water by the time it reaches the environment.

Recreational use of Shipwrights Point – Impacts will be minimal with the pipe being installed via directional drilling. No impact to recreational use of the river, the playground, BBQ's or shelters is anticipated during construction.

Traffic disruption - traffic delays will be minor. Short sections of stop and go at a time.

Population growth - our dedicated Development Services department work closely with developers to determine what additional infrastructure may be required for future growth. An upgraded STP would still require the outfall relocation.

The length of the outfall has been increased from 45 metres to 100 meters offshore.

Project process, considerations and outcome

Project timeline

- **2011** Marine Solutions - Outfall investigation at Port Huon, Huon River
- **2014** Pitt and Sherry – Effluent Reuse Scheme feasibility study
- **2016** Commitment to the EPA to improve compliance and performance at 20 STP's
- **2016** GHD- Geeveston STP Mixing Zone Assessment - Near Field Modelling
- **2017** Marine Solutions - Geeveston STP Ambient Monitoring Report
- **2018** Strategic business case approved
- **2019** Detailed business case development
- **2020** Detailed business case approved
- **2021** Bonneville Consulting - Environmental Risk Assessment

Alternatives to Shipwrights point considered

- Whale Point
- Hospital Bay
- Reuse scheme
- STP full upgrade

Stakeholder engagement 2019/2020

- Geeveston Progress Association
- Huon Yacht Club
- Huon Valley Council
- Department State Growth
- Environmental Protection Agency

Outcome

The outfall will be relocated to water 100m offshore in the Huon River

The bigger picture and community awareness – it starts with you

Stormwater entering the sewerage network is the major cause of overflow events.

You can do your bit to reduce the risk by assessing your downpipes – where is your storm water going?

Huon Valley specific projects for delivery 2023

- Pump station upgrades, including additional storage (Dover, Cygnet)
- Infiltration & Inundation (I&I) smoke testing and man-hole audits – Geeveston
- Water main renewals and extensions
- Outfall relocations
- Cygnet Sewage Treatment plant process improvements

Remember the 3P's



Flush only what can be broken down in the treatment process to stop blockages and reduce overflow events

Register for project and community updates via our website – www.taswater.com.au

