

25. George Town STP

25.1 Activity and report details

Activity name	George Town STP		
Activity address	Old Bell Bay Road, George Town		
Permit number	License to Operate - 3952	Date of issue	3/12/1991
EPN	7933/1	Date of issue	17/09/2015
Treatment level	Secondary Treatment		
Authorised dry weather flows	3600 kL/day		
Key influent source	Residential/Industrial/Tanker 3 x Category 3 Customers, 2 x Category 4 Customers		
Contact person	Kate Westgate		
Report author	Luisa Romero (Environmental Scientist)		
Contact details	Environment@taswater.com.au		
Date of submission	30 September 2025		

Figure 25-1: George Town Sewage Treatment Plant



25.2 Monitoring and compliance summary

25.2.1 Flow data

Table 25-A: Flow monitoring summary

	Influent	Effluent	Reuse
Location name	Inlet	Tamar River	No reuse scheme
Coordinates	E 486967 N 5446819	E 485467 N 5446223	NA
Method of measurement	In line meter	In line meter	NA
Date of last calibration/validation (if applicable).	22/01/2025	05/08/2024	NA

Table 25-B: Annual flow and rainfall data

Month	Average daily influent volume (kL/day)	Rainfall (mm/month) BOM Station ID 091262	Discharge to waters total effluent volume (ML)	Discharge to reuse total effluent volume (ML)
July 2024	2,495	131.4	104.45	--
August 2024	2,299	94.8	89.89	--
September 2024	3,097	101.8	106.02	--
October 2024	1,970	72.7	82.12	--
November 2024	2,196	122.2	69.63	--
December 2024	2,794	78.4	95.30	--
January 2025	1,722	4.6	59.98	--
February 2025	1,458	10	46.85	--
March 2025	1,415	14.6	46.93	--
April 2025	1,284	24	42.86	--
May 2025	1,406	49.5	43.70	--
June 2025	1,748	88.6	62.51	--
Annual 2024-25	1,994	792.6	850.22	0.00
% of total discharge	--	--	100.0%	0.0%

2024-25 monthly flow data was submitted directly to the EPA.

25.3 Bypass events

There were no bypass events associated with the STP during the reporting period.

25.4 Discharge compliance with permit limits

Table 25-C: Discharge compliance with permit limits

Parameter	Ammonia	BOD5	Chlorine	Nitrogen	Oil and grease	pH	Phosphorous	E coli	Total suspended solids
Permit/EPN limit	mg/L	mg/L	mg/L	mg/L	mg/L	Units	mg/L	MPN/100mL	mg/L
Maximum	20	50	--	40	10	10	8	1500	100
90th percentile	5	30	--	25	--	--	6	750	--
50th percentile	3	15	--	15	5	--	4	200	40
Minimum	--	--	--	--	--	6.5	--	--	--
Samples analysed									
Number required	12	12	--	12	12	12	12	12	12
Number analysed	13	12	--	13	12	12	13	12	12
Statistical summary									
Maximum	1.8	46.0	0.0	10.3	1.7	9.7	5.1	548.0	83.0
90th percentile	0.6	32.5	0.0	9.8	1.5	9.6	3.7	188.8	77.0
50th percentile	0.1	15.5	0.0	5.9	1.0	9.0	3.3	102.5	33.7
Minimum	0.0	8.0	0.0	4.2	1.0	7.5	2.0	31.0	4.8
EPN limit compliance									
% compliance with maximum	100%	100%	--	100%	100%	100%	100%	100%	100%
% compliance with 90th percentile	100%	83%	--	100%	--	--	100%	100%	--
% compliance with 50th percentile	100%	50%	--	100%	100%	--	92%	92%	67%
% compliance with pH range	--	--	--	--	--	100%	--	--	--

Table 25-D: Mass loads to the environment

Mass Loads	EPN limit	Frequency	2024-25 result
Nitrogen (kg)	--	Annual	6076.4
Phosphorous (kg)	--	Annual	2743.8
Method	Flow weighted/Composite method		

16.4 Discharge compliance with permit limits

No parameters have had exceedances in the FY period.

25.5 Reuse annual reporting

No Recycled Water Scheme associated with this STP.

25.6 Ambient monitoring program

Table 25-E: Program details

Program	NA – no requirement for ambient monitoring in the reporting period.
Status	NA
Update	NA
Comments	NA

25.7 Groundwater monitoring

Site status: Green

George Town groundwater monitoring network consists of eight monitoring bores, ID numbers CTGW1-8 effectively covering the vicinity of Lagoons 1 and 2. Bore ID CTGW2 is considered upgradient and a background bore.

Annual sampling at the extended analytical suite was completed at all bores in April 2025.

The 2024-25 groundwater monitoring event (GME) recorded limited signs of STP impact with elevated concentrations of one analyte above an adopted guideline criterion across the network with level generally stable or fluctuating within acceptable ranges. A data gap (STP surface waters) was identified during the 2024-25 GME data analysis.

Annual sampling at the extended analytical suite is scheduled to continue at all monitoring bores during the 2025-26 groundwater monitoring program. Surface water sampling of the STP lagoons is also scheduled to align with groundwater monitoring requirements.

25.7 Inflow and infiltration (I&I)

The latest revision to the TasWater Inflow and Infiltration Management Plan includes details of the actions undertaken statewide to address I&I issues.

A Multi Criteria Assessment was undertaken by TasWater in 2024 to prioritise I&I investigation and works state-wide. This catchment was ranked 88 out of 108 in priority.

25.9 Sludge and biosolids

The latest revision to the Sewage Sludge Management Plan (SSMP) includes full details of the actions undertaken during the reporting period, the most recent sludge profiling results, and upcoming annual desludging program. This STP was deemed non-compliant with the 2024-25 SSMP due to no biosolids summary being provided in Appendix A.

Sludge at this STP is captured within the three treatment lagoons, which will be periodically desludged as required. No stockpiling occurs at this site.

Table 25-F: Desludging status and comments

Desludging status	Comments
Medium Priority	Lagoon 1 likely to require desludging within next 5 to 10 years.

25.10 Non-compliance with other permit requirements

Table 25-G: EPN non-compliances

EPN condition	Description of non-conformance	Future actions to be taken
M4 Flow monitoring equipment	Non-compliances flow monitoring equipment from audit conducted May 2024 not reported.	TasWater acknowledges the non-compliance with the condition requiring calibration records to be maintained for the last three years. While calibration records for influent flow monitoring have been provided, the 2023 effluent flow monitoring record is unavailable. TasWater has since improved record management processes, and calibration records are now consistently maintained.
WM1 Sewage Sludge Management plan	Feedback provided in relation to SSMP 23-24 required a summary to be provided in 2024-25 SSMP. No reason for change in priority given,	George Town is not a continuous production STP, and no sludge has been removed from site – there is therefore no summary to provide. Table 3-B in 2024-25 SSMP provides a summary of theoretical sludge produced. Table 3-E provides estimated sludge infill in lagoon 1.
WM2 Controlled Waste Register	Non-compliances-controlled waste register from audit conducted May 2024 not reported.	TasWater acknowledges the non-compliance with the condition requiring a controlled waste register for the STP. While a waste register is currently being maintained, TasWater will review the gaps identified by the EPA with the contractor and investigate potential measures to improve the register.
G6 Annual Environmental Review 2023-2024	<ul style="list-style-type: none"> • Missing information on sludge stored on site (not provided in 22-23 AER either). • Inconsistency in information regarding groundwater sampling dates between AER and groundwater report. • Non-compliances flow monitoring equipment and controlled waste register from audit conducted May 2024 not reported. 	All details to be to be included in AER 2024-2025.

25.11 Complaints and incident reporting

No complaints reported during the FY2024–25 reporting period.

Table 25–H: Incident reporting

Date	Category	Details	Mitigation actions
28/05/2025	Trade waste	Interruptions to Temco production led to erratic trade waste discharges to George Town STP. These changes led to process fluctuations onsite, specifically a drop of pH in aeration tank 1.	Inflow was diverted to aeration tank 2 during the process issues, minimising the impacts to effluent quality. Management of sludge wasting and reseedling of aeration tank 1 was able to resume full treatment.

25.12 Any other relevant information

Table 25–I: Projects or significant operational events that occurred in FY 2024–25:

Project or significant operational event	Progress
Meander Tamar Sewerage Regional Master Plan	The Meander Tamar Sewerage Regional Master Plan has been completed and outlines both short-term and long-term considerations for the George Town STP. The plan confirms that the George Town STP will be retained into the future, with opportunities to investigate potential industrial effluent reuse identified as part of the long-term strategy.

For further information on George Town STP please contact TasWater on 13 6992

www.taswater.com.au