

24. Geeveston STP

24.1 Activity and report details

Activity name	Geeveston STP		
Activity address	Huon Highway, Geeveston		
Permit number	Licence to Operate – 3625	Date of issue	8/12/1992
EPN	8536/1	Date of issue	31/01/2013
Treatment level	Secondary Treatment		
Authorised dry weather flows	300 kL/day		
Key influent source	Residential		
Contact person	Kate Westgate		
Report author	George Fitzgibbon		
Contact details	Environment@taswater.com.au		
Date of submission	30 September 2025		

Figure 24-1: Geeveston Sewage Treatment Plant



24.2 Monitoring and compliance summary

24.2.1 Flow data

Table 24-A: Flow monitoring summary

	Influent	Effluent	Reuse
Location name	Inlet	Kermandie River	No reuse scheme
Coordinates	E 494803 N 5220964	E 494804 N 5221009	NA
Method of measurement	Level Sensor	Level Sensor	NA
Date of last calibration/validation (if applicable).	3/08/2024	3/08/2024	NA

Table 24-B: Annual flow and rainfall data

Month	Average daily influent volume (kL/day)	Rainfall (mm/month) BOM Station ID 94268	Discharge to waters total effluent volume (ML)	Discharge to reuse total effluent volume (ML)
July 2024	474	98.6	12.45	--
August 2024	693	178.6	16.94	--
September 2024	1591	213.8	27.74	--
October 2024	577	95.6	11.11	--
November 2024	304	57.6	7.29	--
December 2024	374	105.6	9.57	--
January 2025	239	26.6	6.35	--
February 2025	235	13	5.44	--
March 2025	265	35.2	6.87	--
April 2025	286	50.8	6.98	--
May 2025	353	72.6	8.52	--
June 2025	344	68.2	12.38	--
Annual 2024-25	478	1016.2	131.63	0.00
% of total discharge	--	--	100.0%	0.0%

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

24.3 Bypass events

Table 24–C: Bypass events summary

Bypass ID:	GEEST01-ON					
Bypass description:	Inlet pump station overflow to outfall					
Treatment bypassed:	Secondary Treatment, Disinfection (Chlorine)					
Treatment level of impacted effluent:	Screened					
Flows exceeding:	19 L/s (Approximate)					
Discharge location:	Kermandie River: 494804.63E, 5221009.4N (GDA94)					
Start date / time	End date / time	Duration	Volume estimate	Cause	Response actions	
15/07/2024	15/07/2024	18.6 h	1346 kL	Rainfall Event	To help reduce bypass events state-wide, during FY2024–25 TasWater has spent \$1.2 million on the identification, reification and monitoring of inflow and infiltration (I&I) within our systems. During FY2025 –26 we will be spending a further \$0.8 million on I&I works.	
27/08/2024	29/08/2024	38.3 h	2349 kL	Rainfall Event		
30/08/2024	1/09/2024	46.7 h	4456 kL	Rainfall Event		
1/09/2024	2/09/2024	35.5 h	3663 kL	Rainfall Event		
9/09/2024	9/09/2024	8.8 h	744 kL	Rainfall Event		
19/09/2024	19/09/2024	4.8 h	130 kL	Rainfall Event		
7/12/2024	7/12/2024	0.8 h	74 kL	Rainfall Event		
11/12/2024	11/12/2024	0.7 h	2 kL	Rainfall Event		
24/05/2025	24/05/2025	4.3 h	303 kL	Rainfall Event		

24.4 Discharge compliance with permit limits

Table 24-D: Discharge compliance with permit limits

Parameter	Ammonia	BOD ₅	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	18.5	15	--	24	10	8.5	5.5	200	25
90th percentile	--	--	--	--	--	--	--	--	--
50th percentile	--	--	--	--	--	--	--	--	--
Minimum	--	--	--	--	--	6.5	--	--	--
Samples analysed									
Number required	12	12	--	12	12	12	12	12	12
Number analysed	12	12	--	12	12	12	12	12	12
Statistical summary									
Maximum	21.1	37.0	2.7	26.4	3.9	7.4	5.9	24,196	32.0
90th percentile	19.4	17.7	1.5	25.5	2.5	7.3	5.7	3,007	18.9
50th percentile	7.1	5.0	1.2	12.4	1.0	7.0	2.0	49.5	4.8
Minimum	0.1	5.0	0.4	5.9	1.0	6.4	0.3	10	4.0
EPN limit compliance									
% compliance with maximum	83%	83%	--	75%	100%	100%	75%	83%	92%
% compliance with 90th percentile	--	--	--	--	--	--	--	--	--
% compliance with 50th percentile	--	--	--	--	--	--	--	--	--
% compliance with pH range	--	--	--	--	--	92%	--	--	--

Table 24-E: Mass loads to the environment

Mass Loads	EPN limit	Frequency	2024-25 result
Nitrogen (kg)	--	Annual	1,958.4
Phosphorous (kg)	--	Annual	310.5
Method	Flow weighted/Composite method		

Table 24-F: Performance analysis (discharge to environment)

Effluent compliance parameter	Date(s) of non-compliance	Reasons for non-compliance	Actions to improve performance
BOD	21/08/2024 21/11/2024	Instances of elevated chlorine typically are a result of the limited automated chlorine control. The variability in effluent quality from the secondary treatment process is also believed to impact the consistency disinfection performance. The process is not specifically designed to remove phosphorus.	No specific actions this period. Outfall relocation will improve discharge impacts and post-commissioning monitoring will confirm upgrade requirements for the STP.
Chlorine	18/07/2024 19/09/2024 17/10/2024 21/11/2024 12/12/2024		
E. coli	21/08/2024 19/09/2024	The majority of Instances of elevated TSS and BOD occurred during wet weather events. High flows cause solids carry over from the solids separation leading to TSS and BOD ₅ exceedances	
Nitrogen	21/08/2024 21/11/2024 17/10/2024		
Phosphorus	20/02/2025 20/03/2025 17/04/2025		
TSS	19/09/2024		
Ammonia	21/11/2024 17/10/2024		

Effluent compliance parameter	Date(s) of non-compliance	Reasons for non-compliance	Actions to improve performance
pH	20/03/2025		

No other parameters had exceedances in the reporting period.

24.5 Reuse annual reporting

No recycled water scheme associated with this STP.

24.6 Ambient monitoring program

Table 24-G: Program details

Program	Not applicable
Status	No ambient monitoring undertaken during reporting period.
Update	Not applicable
Comments	Geeveston Outfall Relocation Project due for completion in mid-late 2026. A post new outfall commissioning ambient monitoring program will be implemented upon project completion.

24.7 Groundwater monitoring

No groundwater monitoring bores associated with this STP.

24.8 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 32 out of 108 in priority (high). Actions in the period included field investigations and defect rectification.

24.9 Sludge and biosolids

The latest revision to the Sewage Sludge Management Plan (SSMP) includes full details of the actions undertaken during the reporting period. This STP was assessed as compliant with the 2024-25 SSMP.

There are no sludge/biosolids dewatering facilities at this site, with sludge transferred via liquid sludge transport to Macquarie Point, Prince of Wales Bay and Selfs Point STPs. The total volume of sludge removed during the reporting period was 1,179.1kL

No stockpiling occurs at this site.

Table 24-H: Liquid sludge transfers from Geeveston STP

Receiving STP	Volume (kL)
Macquarie Point STP	419
Prince of Wales STP	148.1
Selfs Point STP	612
TOTAL	1,179.1

24.10 Non-compliance with other permit requirements

Table 24-I: EPN non-compliances

EPN condition	Description of non-conformance	Future actions to be taken
ADWF Limits	Exceeded the ADWF limit for FY	No current actions planned.
EF3 Effluent discharge limits to Kermadie River	Discharge compliance with permit limits	See section 24.4 Discharge compliance with permit limits and Performance Analysis.
EM4 Discharge Management Plan	Discharge Management Plan overdue	TasWater acknowledges the non-compliance associated with the DMP condition. We are working towards the intent of the EPN condition to prioritise discharge risk reduction projects in line with our EPA endorsed Wastewater Risk Management Plan and Price and Service Plan process.

24.11 Complaints and incident reporting

No complaints or incidents in the period.

24.12 Any other relevant information

Table 24-J: Projects or significant operational events that occurred in FY 2024-25:

Project or significant operational event	Progress
Geeveston Outfall Relocation Project	Following community concern, the proposed outfall location has been moved into deeper water at Shipwrights Point and further away from the recreational area. A new amended permit from the EPA was received in November 2024. Project delayed but due for completion in mid-late 2026.

For further information on Geeveston STP please contact TasWater on 13 6992

www.taswater.com.au