

## 62.Sorell STP

### 62.1 Activity and report details

Activity name	Sorell STP		
Activity address	Giblin Drive, Sorell		
Permit number	Licence to Operate - 3299	Date of issue	23/02/1993
EPN	8551/2	Date of issue	14/02/2019
Treatment level	Secondary Treatment		
Authorised dry weather flows	810 kL/day		
Key influent source	Residential/Industrial 1 x Category 3 Customer		
Contact person	Kate Westgate		
Report author	George Fitzgibbon		
Contact details	Environment@taswater.com.au		
Date of submission	30 September 2025		

Figure 62-1: Sorell Sewage Treatment Plant



## 62.2 Monitoring and compliance summary

### 62.2.1 Flow data

**Table 62-A: Flow monitoring summary**

	Influent	Effluent	Reuse
Location name	Inlet	Pitt Water	Effluent Reuse Scheme - Penna Reuse
Coordinates	E 546023 N 5262134	E 546102 N 526002	E 546060 N 5262122
Method of measurement	Online Flow Meter	Online Flow Meter	Online Flow Meter
Date of last calibration/validation (if applicable)	04/06/2025	04/06/2025	04/06/25

**Table 62-B: Annual flow and rainfall data**

Month	Average daily influent volume (kL/day)	Rainfall (mm/month) BOM Station ID 94248	Discharge to waters total effluent volume (ML)	Discharge to reuse total effluent volume (ML) *
July 2024	842	63.3	1.68*	24.41
August 2024	639	53.6	0.00	19.82
September 2024	728	41.5	0.00	21.85
October 2024	564	25.9	0.00	17.48
November 2024	585	20.8	0.00	17.55
December 2024	724	90.8	0.00	22.45
January 2025	573	7.6	0.00	17.76
February 2025	597	14.7	0.00	16.71
March 2025	601	19.2	0.00	18.62
April 2025	623	30.6	0.00	18.69
May 2025	637	36	0.00	19.76
June 2025	689	27.5	0.00	20.67
Annual 2024-25	651	431.5	1.68	235.76
% of total discharge	--	--	0.7%	99.3%

\* BGA inhibited ability to reuse from Penna STP which caused effluent discharge via Sorell STP outfall

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

### 62.3 Bypass events

There were no bypasses reported during the period.

## 62.4 Discharge compliance with permit limits

This STP discharges either to the Penna Reuse Lagoons or to environment via the Sorell STP outfall during emergency discharge. Specific compliance sampling is only undertaken when it is discharging to environment.

**Table 62-C: Compliance summary**

Parameter	Ammonia	BOD <sub>5</sub>	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	36	45	--	47	4	8.5	8	750	24
90th percentile	--	--	--	--	--	--	--	--	--
50th percentile	--	--	--	--	--	--	--	--	--
Minimum	--	--	--	--	--	6.5	--	--	--
Samples analysed									
Number required	12	12	--	12	12	12	12	12	12
Number analysed	0	0	--	0	0	0	0	0	0
Statistical summary									
Maximum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90th percentile	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50th percentile	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
EPN limit compliance									
% compliance with maximum	--	--	--	--	--	--	--	--	--
% compliance with 90th percentile	--	--	--	--	--	--	--	--	--
% compliance with 50th percentile	--	--	--	--	--	--	--	--	--
% compliance with pH range	--	--	--	--	--	--	--	--	--

Note: Percentages reflective of complete data set for the year. Sampling only undertaken when discharging to environment.

**Table 62-D: Mass loads to the environment**

Mass Loads	EPN limit	Frequency	2024-25 result *
Nitrogen (kg)	--	Annual	2.0
Phosphorous (kg)	--	Annual	8.7
Method	Time weighted/grab sample method		

\* Calculator using discharge to Penna effluent quality

No parameters had exceedances in the reporting period.

### 62.5 Reuse annual reporting

As this site discharges to Penna Recycled Water Scheme (RWS) no compliance samples are taken. See Penna STP AER for details on recycled water quality and scheme performance.

### 62.6 Ambient monitoring program

**Table 62-E: Program details**

Program	No ambient monitoring required under EPNe
Status	NA
Update	NA
Comments	Discharge to Sorell Rivulet from Sorell occurred in July 2024. No ambient monitoring conducted in the reporting period.

### 62.7 Groundwater monitoring

Site Status: Red

Sorell STP groundwater monitoring network consists of two monitoring bores, bore ID SOGW1 located south of the main STP lagoon, and SOGW2, located south-east of the sludge pond.

6-Monthly sampling at the extended analytical suite was completed at both bores in September 2024 and March 2025 as scheduled.

The 2024-25 groundwater monitoring event recorded alignment of STP lagoon water type with groundwater monitoring network water type indicating highly likely STP impacts to groundwater environment. A data gap was noted in the monitoring network with the absence of background groundwater quality.

6-Monthly sampling at the extended analytical suite is scheduled to continue across the network in the 2025-26 groundwater monitoring program.

### 62.8 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 7 out of 108 in priority.

## 62.9 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.

Biosolids are removed regularly from site, no stockpiling occurs.

**Table 62-G: Biosolids sludge classification**

Parameter	Number of samples	Maximum (mg/kg)	Mean (mg/kg)	Minimum (mg/kg)	BACC (mg/kg)	Contaminant classification
Arsenic	12	3.1	2.3	1.7	3.2	A
Cadmium	12	1.6	1.1	0.8	1.5	B
Chromium	12	33.3	25.5	22.2	33.0	A
Copper	12	283.0	241.1	208.0	287.2	B
Lead	12	35.9	17.7	12.1	30.3	A
Mercury	12	1.1	0.9	0.5	1.2	B
Nickel	12	24.8	20.3	17.6	24.8	A
Zinc	12	881.0	763.7	670.0	884.3	B

BACC = biosolids adjusted contaminant concentration

**Table 62-H: Volume and disposal destination**

Quantity (DST)	Average solids content (%)	Stabilisation method	Stabilisation grade	Contamination grade	Biosolids classification	End use destination
22.1	14.6	None	U/C	B	U/C	Plenty Composting

Notes: DST = Dry solid tonne. U/C = Unclassified

## 62.10 Non-compliance with other permit requirements

**Table 62-I: EPN non-compliances**

EPN condition	Description of non-conformance	Future actions to be taken
EF7 Cessation of discharge to Pitt Water	Discharge occurred on one occasion in July 2024. Discharged to the Pittwater outfall due to high flows into Sorell STP.	The Penna Reuse Expansion Project has been completed.

## 62.11 Complaints and incident reporting

No incidents or complaints recorded in FY2024-25 period.

## 62.12 Any other relevant information

**Table 62-K: Projects or significant operational events that occurred in FY 2024-25:**

Project or significant operational event	Progress
Derwent Hobart Sewerage Regional Master Plan	The Derwent Hobart Sewerage Regional Master Plan has been completed and outlines both short- and long-term considerations for the Sorell STP. The preferred long term strategy is to rationalise the STP to a new location.
Inflow and Infiltration work	Ongoing discussions with Sorell council and private property owners to address cross-connections.

For further information on the Sorell STP please contact TasWater on 13 6992

[www.taswater.com.au](http://www.taswater.com.au)