

## 67. Strahan STP

### 67.1 Activity and report details

Activity name	Strahan STP		
Activity address	Lowana Rd, Strahan		
Permit number	Permit Conditions Environmental - 6223	Date of issue	11/12/2001
EPN	8858/1	Date of issue	13/3/2013
Treatment level	Secondary Treatment		
Authorised dry weather flows	1056 kL/day		
Key influent source	Residential		
Contact person	Kate Westgate (Manager Environmental Performance)		
Report author	Jake Crisp (Environmental Scientist)		
Contact details	Environment@taswater.com.au		
Date of submission	30 September 2025		

**Figure 67-1: Strahan Sewage Treatment Plant**



## 67.2 Monitoring and compliance summary

### 67.2.1 Flow data

**Table 67-A: Flow monitoring summary**

	Influent	Effluent	Reuse
Location name	Plant Influent	Macquarie Harbour	No reuse scheme
Coordinates	E 362539 N 5330795	E 360471 N 5331863	NA
Method of measurement	In line meter	Estimate based on influent	NA
Date of last calibration/validation (if applicable).	18/02/2025	NA – meter to be installed	NA

**Table 67-B: Annual flow and rainfall data**

Month	Average daily influent volume (kL/day)	Rainfall (mm/month) BOM Station ID 97092	Discharge to waters total effluent volume (ML)	Discharge to reuse total effluent volume (ML)
July 2024	481	98	14.92	--
August 2024	1615	29	50.06	--
September 2024	1395	459.7	41.84	--
October 2024	558	95.9	17.28	--
November 2024	493	106.7	14.80	--
December 2024	595	174.6	18.46	--
January 2025	490	23.4	15.19	--
February 2025	441	44.2	12.36	--
March 2025	445	84.2	13.79	--
April 2025	425	79.9	12.76	--
May 2025	506	172.7	15.69	--
June 2025	645	167.6	19.36	--
Annual 2024-25	675	1535.9	246.50	0.00
% of total discharge	--	--	100.0%	0.0%

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

### 67.3 Bypass events

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

## 67.4 Discharge compliance with permit limits

**Table 67-C: Compliance summary**

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	--	--	40	10	8.5	12	200	50
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	13.7	95.0	0.0	18.1	3.5	9.7	4.8	631.0	80.0
90th percentile	12.3	31.4	0.0	17.9	1.6	9.4	4.0	281.1	35.6
50th percentile	5.3	9.0	0.0	9.9	1.0	7.8	2.5	36.0	6.8
Minimum	0.1	5.0	0.0	3.0	1.0	7.1	1.0	10.0	4.0
EPN limit compliance									
% compliance with maximum	100%	--	--	100%	100%	67%	100%	83%	92%
% compliance with 90th percentile	--	--	--	--	--	--	--	--	--
% compliance with 50th percentile	--	--	--	--	--	--	--	--	--
% compliance with pH range	--	--	--	--	--	67%	--	--	--

**Table 67-D: Mass loads to the environment**

Mass Loads	EPN limit	Frequency	2024-25 result
Nitrogen (kg)	--	Annual	2700.9
Phosphorous (kg)	--	Annual	589.0
Method	Time weighted/grab sample method		

**Table 67-E: Performance analysis (discharge to environment)**

Effluent compliance parameter	Date(s) of non-compliance			Reasons for non-compliance	Actions to improve performance
BOD	16/07/2024 17/09/2024 22/10/2024 12/11/2024	10/12/2024 21/01/2025 18/02/2025 18/03/2025	29/04/2025 20/05/2025 3/06/2025	Elevated levels of algae are considered the main contributor to increased BOD and TSS. As the algal biomass accumulates and decomposes, it adds to the organic load, leading to elevated BOD or TSS.	No specific actions.
TSS	3/02/2025				
<i>E. coli</i>	16/07/2024 18/02/2025 18/03/2025	29/04/2025 20/05/2025 3/06/2025	13/01/2025 3/02/2025	The plant generally has good disinfection performance. The effluent <i>E. coli</i> limit of 200 MPN/100mL is difficult to be consistently met by a lagoon system with poor chlorine disinfection control.	No specific actions.
Phosphorus	29/04/2025			Probably attributed to phosphorus release during the algal decomposition process.	No specific actions.
pH	2/04/2025			Non-compliance is likely due to algae blooms within the lagoon.	No specific actions

No other parameters had exceedances in the reporting period.

### 67.5 Reuse annual reporting

No Recycled Water Scheme associated with this STP.

### 67.6 Ambient monitoring program

**Table 67-F: Program details**

<b>Program</b>	Strahan STP Ambient Monitoring Plan (AMP).
<b>Status</b>	Triennial seasonal (spring/summer) ambient water quality and biological monitoring within the Macquarie Harbour receiving environment.
<b>Update</b>	Water quality and sediment monitoring including benthic habitat and benthic infauna surveys to be conducted on a triennial seasonal (spring and summer) basis. No ambient monitoring was undertaken during the reporting period.
<b>Comments</b>	Triennial seasonal ambient monitoring is scheduled for FY 2025/26.

### 67.7 Groundwater monitoring

Site status: Amber (2023–24)

Strahan STP groundwater monitoring network consists of three monitoring bores. Bore ID SNGW1 is located on the southeastern corner of the STP whilst bore ID's SNGW2–3 are located on the northwestern and southwestern corners respectively. The expected receiving environment is expected to be Long Bay (Macquarie Harbour) located west of the STP.

Bi-annual sampling at the extended analytical suite was completed in October 2024 and May 2025 at bore ID's SNGW1–2 as scheduled. No samples were collected from bore ID SNGW3 as this bore remains dry. Annual sampling of the surface water of the five STP lagoons was also completed in May 2025.

The 2024–25 groundwater monitoring event report is due in September 2025. Any actions required following a review of the report will be provided by 21 January 2026 in the groundwater Summary Actions Report (SAR).

Bi-annual sampling at the extended analytical suite is scheduled to continue at all bores and increase at the five STP lagoons during the 2025–26 groundwater monitoring program.

### 67.8 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 91 out of 108 in priority.

## 67.9 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 assessed as compliant with the 2024–25 SSMP.

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

**Table 67–G: Desludging status and comments**

Desludging status	Comments
Low Priority	Lagoons at this STP are unlikely to require desludging in the foreseeable future.

## 67.10 Non-compliance with other permit requirements

**Table 67–H: EPN non-compliances**

EPN condition	Description of non-conformance	Future actions to be taken
D3 Effluent quality limits for discharge to water	Discharge compliance with permit limits.	See section 67.4 for discharge compliance with permit limits and performance analysis.
EM1, EM2 & EM3 Effluent Management, Reuse Feasibility Study and Discharge Management Plan	Reuse Feasibility Study and 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.

## 67.11 Complaints and incident reporting

No complaints or incidents reported during the reporting period.

## 67.12 Any other relevant information

**Table 67–I: Projects or significant operational events that occurred in FY24–25.**

Project or significant operational event	Progress
West Coast Sewerage Master Plan	The West Coast Sewerage Regional Master Plan has been completed and outlines both short- and long-term considerations for the Strahan STP with the STP retained long-term to service the catchment.

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

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