

ATTACHMENT 4. WASTEWATER TREATMENT PLANTS – LEVEL 2 SECONDARY TREATMENT (25)

Ben Lomond Water's twenty-five Level 2 secondary treatment wastewater treatment plants are:

1. Ti-Tree Bend Wastewater Treatment Plant:

Ti-Tree Bend WWTP is located off Gilmore Street approximately 2.1 kilometres north-west of the Launceston CBD. The WWTP receives sewage from the central part of Launceston, Trevallyn, West Launceston and South Launceston. Ti-Tree Bend WWTP is the largest plant in Tasmania and has a significant flow component made up of combined drainage (sewage and stormwater). Following treatment wastewater is discharged to the Tamar River.

- Constructed: 1972
- Capacity: 25 ML/day
- Technology: Mechanical
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 16,800
- Volume of wastewater treated: Approximately 9,000 ML/annum

2. Hoblers Bridge Wastewater Treatment Plant:

The Hoblers Bridge WWTP is located off Hoblers Bridge Road approximately 2.7 kilometres south-east of the Launceston CBD. The WWTP receives sewage from the suburbs of Newstead, Waverley and Ravenswood. The recent construction of the Queechy Sewer Pump Station has allowed for the plant to receive additional flow sub-catchments previously serviced by the Norwood WWTP. Following treatment wastewater is discharged to the North Esk River.

- Constructed: 1959
- Capacity: 4.12 ML/day
- Technology: Mechanical
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 3,500
- Volume of wastewater treated: Approximately 1,100 ML/annum

3. Norwood Wastewater Treatment Plant:

The Norwood WWTP is located off Brookdale Street approximately 4.7 kilometres south-east of the Launceston CBD. The WWTP receives sewage from the southern and eastern suburbs of Launceston including Norwood, St. Leonards, Kings Meadows and Youngtown. Following treatment wastewater is discharged to the North Esk River.

- Constructed: 1978
- Capacity: 4.05 ML/day
- Technology: Mechanical
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 6,200
- Volume of wastewater treated: Approximately 1,150 ML/annum

4. Newnham Wastewater Treatment Plant:

The Newnham WWTP is located off the Newnham Connector approximately 4.6 kilometres north of the Launceston CBD. The WWTP receives sewage from the northern suburbs of Mowbray, Mayfield, Rocherlea and Newnham. The Newnham WWTP is subject to significant inflow and infiltration; this has a deleterious impact on the treatment performance of the plant. Following treatment wastewater is discharged to the Tamar River via the Newnham Creek.

- Constructed: 1968
- Capacity: 3.92 ML/day
- Technology: Mechanical
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 5,500
- Volume of wastewater treated: Approximately 2,350 ML/annum

5. George Town Wastewater Treatment Plant:

The George Town WWTP is located off Old Bell Bay Road in Bell Bay approximately 2.7 kilometres south-east of the town centre. The WWTP receives sewage from the town as well as a significant volume of wastewater from industry (estimated at 40-45% of total flow). Following treatment wastewater is discharged to the Tamar River near Point Effingham.

- Constructed: 1992
- Capacity: 3.6 ML/day
- Technology: Mechanical - Biological
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 2,500
- Volume of wastewater treated: Approximately 700 ML/annum

6. Scottsdale Wastewater Treatment Plant:

The Scottsdale WWTP is located off Bridport Road approximately 2 kilometres north of the town. The WWTP receives sewage from the town and following treatment wastewater is discharged to Cox's Creek. The plant is significantly underutilised following the closure of McCains Food Processing Plant in 2003.

- Constructed: 1969
- Capacity: 3.2 ML/day
- Technology: Mechanical - Biological
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 1,050
- Volume of wastewater treated: Approximately 170 ML/annum

7. Longford Wastewater Treatment Plant:

The Longford WWTP is located off Bishopsbourne Road approximately 2.3 kilometres west of the town centre. The WWTP receives sewage from the town as well as a significant volume of wastewater from industry (estimated at 45-50% of total flow). Following treatment wastewater is discharged to Back Creek.

- Constructed: 1965
- Capacity: 2.7 ML/day
- Technology: Sequence Batch Reactor (SBR), Covered Anaerobic Lagoon (CAL) and Lagoon
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 1,500

- Volume of wastewater treated: Approximately 800 ML/annum

8. Riverside Wastewater Treatment Plant:

The Riverside WWTP is located off Benson Court approximately 2.8 kilometres north-west of the Launceston CBD. The WWTP receives sewage from Riverside and part of Trevallyn. Following treatment wastewater is discharged to the Tamar River.

- Constructed: 1968
- Capacity: 1.9 ML/day
- Technology: Mechanical
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 3,250
- Volume of wastewater treated: Approximately 600 ML/annum

9. Prospect Vale Wastewater Treatment Plant:

The Prospect Vale WWTP is located off Pitcher Parade approximately 5.5 kilometres south-west of the Launceston CBD. The WWTP receives sewage from Prospect Vale and Blackstone Heights following treatment wastewater is discharged to Dalrymple Creek.

- Constructed: 1972
- Capacity: 1.4 ML/day
- Technology: IDEAL (Intermittent Decant Extended Aeration Lagoons)
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 2,700
- Volume of wastewater treated: Approximately 650 ML/annum

10. Bridport Wastewater Treatment Plant:

The Bridport WWTP is located off Charles Street approximately 2 kilometres north-west of the town centre. The WWTP receives sewage from the town and following treatment discharges to Anderson Bay.

- Constructed: 1978
- Capacity: 1.4 ML/day
- Technology: Lagoon
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 950
- Volume of wastewater treated: Approximately 100 ML/annum

11. Carrick Wastewater Treatment Plant:

The Carrick WWTP is located approximately 700 metres north-east of the town centre. The WWTP receives sewage from Carrick and the adjacent town of Hadspen. Following treatment wastewater is discharged to an unnamed tributary of the Liffey River. A reuse scheme was constructed in 2001 adjacent to the plant but is currently unused.

- Constructed: 1973
- Capacity: 624 kL/day
- Technology: IDEAL (Intermittent Decant Extended Aeration Lagoons)
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 1,100
- Volume of wastewater treated: Approximately 250 ML/annum

12. Deloraine Wastewater Treatment Plant:

The Deloraine WWTP is located off Racecourse Drive approximately 1.1 kilometres north-east of the town centre and immediately adjacent to the town oval. The WWTP receives sewage from the town and following treatment discharges to the Meander River.

- Constructed: 1972
- Capacity: 600 kL/day
- Technology: IDEAL (Intermittent Decant Extended Aeration Lagoons)
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 1,200
- Volume of wastewater treated: Approximately 350 ML/annum

13. Legana Wastewater Treatment Plant:

The Legana WWTP is located off Griffiths Lane approximately 1.2 kilometres north-east of the town centre. The WWTP receives sewage from Legana and the adjacent town of Grindelwald. Following treatment wastewater is pumped to a reuse scheme adjacent to the plant.

- Constructed: 1981
- Capacity: 540 kL/day
- Technology: Lagoon
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 1,100
- Volume of wastewater treated: Approximately 70 ML/annum

14. Beauty Point Wastewater Treatment Plant:

The Beauty Point WWTP is located off West Arm Road approximately 1.1 kilometres north-east of the town centre. The WWTP receives sewage from the town and following treatment discharges to a reuse (ie. waste disposal) scheme 1.4 kilometres south of the plant.

- Constructed: 1981
- Capacity: 540 kL/day
- Technology: Lagoon
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 650
- Volume of wastewater treated: Approximately 190 ML/annum

15. Perth Wastewater Treatment Plant:

The Perth WWTP is located approximately 1.7 metres south-west of the town centre. The WWTP receives sewage from the town and following treatment is pumped to a reuse scheme adjacent to the plant.

- Constructed: 1973
- Capacity: 450 kL/day
- Technology: Lagoon (partial aeration)
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 1,050
- Volume of wastewater treated: Approximately 270 ML/annum

16. Beaconsfield Wastewater Treatment Plant:

The Beaconsfield WWTP is located off Bowens Jetty Road approximately 1.3 kilometres west of the town centre. The WWTP receives sewage from the town and following treatment discharges to Brandy Creek.

- Constructed: 1980

- Capacity: 400 kL/day
- Technology: Lagoon
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 400
- Volume of wastewater treated: Approximately 160 ML/annum

17. Evandale Wastewater Treatment Plant:

The Evandale WWTP is located off Logan Road approximately 800 metres south-east of the town centre. The WWTP receives sewage from the town and following treatment is pumped to a reuse scheme 1.5 kilometres south of the plant.

- Constructed: 1976
- Capacity: 375 kL/day
- Technology: Lagoon
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 550
- Volume of wastewater treated: Approximately 80 ML/annum

18. Cressy Wastewater Treatment Plant:

The Cressy WWTP is located approximately 800 metres north-west of the town centre. The WWTP receives sewage from the town and following treatment is pumped to a reuse scheme 1.6 kilometres north-west of the plant.

- Constructed: 1976
- Capacity: 375 kL/day
- Technology: Lagoon (partial aeration)
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 350
- Volume of wastewater treated: Approximately 70 ML/annum

19. Campbell Town Wastewater Treatment Plant:

The Campbell Town WWTP is located off Harrison Street approximately 900 metres south-west of the town centre. The WWTP receives sewage from the town and following treatment is pumped to a reuse scheme 1.2 kilometres north-west of the plant.

- Constructed: 1978 (estimated)
- Capacity: 325 kL/day
- Technology: Lagoon (partial aeration)
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 500
- Volume of wastewater treated: Approximately 100 ML/annum

20. Scamander Wastewater Treatment Plant:

The Scamander WWTP is located off Coach Road approximately 2.2 kilometres north-west of the town centre. The WWTP receives sewage from the town and following treatment is pumped to the nearby golf course where the treated effluent is reused.

- Constructed: 1991
- Capacity: 240 kL/day
- Technology: Lagoon - Facultative
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary

- Number of Customers: Approximately 400
- Volume of wastewater treated: Approximately 50 ML/annum

21. St. Marys Wastewater Treatment Plant:

The St. Marys WWTP is located off Esk Main Road approximately 500 metres west of the town. The WWTP receives sewage from the town and following treatment wastewater is pumped to a reuse scheme 900 metres north-west of the plant.

- Constructed: 1984
- Capacity: 190 kL/day
- Technology: Lagoon - Facultative
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 270
- Volume of wastewater treated: Approximately 50 ML/annum

22. Exeter Wastewater Treatment Plant:

The Exeter WWTP is located approximately 700 metres south-east of the town centre. The WWTP receives sewage from Exeter and some of Blackwall and Gravelly Beach. Following treatment wastewater is pumped to a reuse scheme at the local golf course located 1.1 kilometres west of the plant.

- Constructed: 1984
- Capacity: 150 kL/day
- Technology: Lagoon
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 350
- Volume of wastewater treated: Approximately 50 ML/annum

23. Lilydale Wastewater Treatment Plant:

The Lilydale WWTP is located off Golconda Road approximately 900 metres north of the town centre. The WWTP receives sewage from the town and following treatment is pumped to a reuse scheme adjacent to the plant.

- Constructed: 1975
- Capacity: 135 kL/day
- Technology: Lagoon
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 200
- Volume of wastewater treated: Approximately 40 ML/annum

24. Fingal Wastewater Treatment Plant:

The Fingal WWTP is located off Stieglitz Street approximately 400 metres south-west of the town centre and adjacent to the railway. The WWTP receives sewage from the town and following treatment discharges to the South Esk River.

- Constructed: 1984
- Capacity: 125 kL/day
- Technology: Lagoon
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 200
- Volume of wastewater treated: Approximately 80 ML/annum

25. Stieglitz Wastewater Treatment Plant:

The Stieglitz WWTP is located off St. Helens Point Road approximately 4.8 kilometres west of St. Helens. The WWTP receives sewage from the areas of Stieglitz and Akaroa, following treatment recycled wastewater is used to irrigate bushland at the St. Helens Aerodrome.

- Constructed: 1991
- Capacity: 110 kL/day
- Technology: Lagoon
- Regulatory Level: Level 2 WWTP
- Treatment Level: Secondary
- Number of Customers: Approximately 750
- Volume of wastewater treated: Approximately 150 ML/annum