

Appendix N

Wastewater Compliance Status

Wastewater Discharge Consent Compliance Summary

Wastewater Treatment Plant Performance																																																															
July 2016 - June 2017																																																															
Treatment Plant	Consent No.	Expiry Date	Number of consent conditions			Consent compliance																								Total Measured			Total Compliance			% Compliance																											
			Measurable (M)	Administrative (A)	Total	Jul		Aug		Sep		Oct		Nov		Dec		Jan		Feb		Mar		Apr		May		Jun		M	A	Total	M	A	Total																												
						M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A	M	A																																				
Rakaunui Road LDS	930464	31 December 2015	16	9	25	13	9	14	9	13	9	15	9	15	9	15	9	15	9	16	9	15	9	16	9	16	9	15	9	192	108	300	178	108	286	95																											
View Road LDS	116596	31 December 2032	26	9	35	26	9	26	9	26	9	26	9	26	9	26	9	20	9	20	9	20	9	20	9	20	9	20	9	312	108	420	276	108	384	91																											
Taupo WWTP odour	121289	31 December 2032	28	5	33	26	5	26	5	25	5	26	5	26	5	26	5	25	5	26	5	25	5	28	5	28	5	28	5	336	60	396	315	60	375	94.7																											
Taupo WWTP emergency discharge	930620	31 December 2015	5	6	11	5	6	5	6	5	6	5	6	5	6	5	6	5	6	5	6	5	6	5	6	5	6	5	6	60	72	132	60	72	132	100																											
Acacia Bay	122518	25 October 2035	27	5	32	25	5	26	5	26	5	25	5	25	5	26	5	26	5	24	5	24	5	25	5	23	5	324	60	384	300	60	360	94																													
Acacia Bay air discharge	122519	25 October 2035	8	2	10	8	2	8	2	8	2	8	2	8	2	8	2	8	2	8	2	8	2	8	2	8	2	8	2	96	24	120	96	24	120	100																											
Kinloch	113402	31 January 2039	23	8	31	23	8	23	8	23	8	23	8	22	8	21	8	21	8	21	8	21	8	21	8	21	8	21	8	276	96	372	263	96	359	96.5																											
Kinloch air discharge	113403	31 January 2039	8	2	10	8	2	8	2	8	2	8	2	8	2	8	2	8	2	8	2	8	2	8	2	8	2	8	2	96	24	120	96	24	120	100																											
Waitahanui	105642	30 November 2022	20	8	28	18	8	18	8	18	8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	60	24	84	54	24	78	92.9																												
Motutere	950671	31 January 2016	12	5	17	12	5	12	5	12	5	12	5	12	5	12	5	12	5	12	5	12	5	12	5	12	5	12	5	144	60	204	144	60	204	100.0																											
Motuoapa	122515	13 November 2033	27	3	30	25	3	25	3	26	3	26	3	27	3	25	3	24	3	24	3	25	3	25	3	25	3	25	3	324	36	360	302	36	338	93.9																											
Motuoapa air discharge	122517	13 November 2033	9	3	12	9	3	9	3	9	3	9	3	9	3	9	3	9	3	9	3	9	3	9	3	9	3	9	3	108	36	144	108	36	144	100.0																											
Turangi	102927	23 June 2018	23	12	35	22	12	21	12	21	12	21	12	21	12	21	12	21	12	21	12	21	12	21	12	21	12	21	12	276	144	420	253	144	397	94.5																											
Omori	953652	31 January 2016	11	5	16	10	5	11	5	10	5	10	5	11	5	10	5	10	5	10	5	11	5	11	5	11	5	11	5	132	60	192	125	60	185	96.4																											
Whareroa	113031	26 April 2028	29	5	34	21	5	20	5	21	5	21	5	21	5	21	5	22	5	22	5	22	5	22	5	22	5	22	5	348	60	408	256	60	316	77.5																											
Mangakino	951023	30 December 2016	9	9	18	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	108	108	216	108	108	216	100																											
Whakamaru	130354	31 May 2036	23	4	27	23	4	23	4	23	4	22	4	22	4	22	4	21	4	22	4	22	4	22	4	22	4	22	4	276	48	324	266	48	314	96.9																											
Atiamuri	109488	1 March 2024	10	5	15	10	5	10	5	10	5	10	5	10	5	10	5	10	5	10	5	10	5	10	5	10	5	10	5	120	60	180	120	60	180	100																											
Average																																																															95.8

Taupo WWTP	
July 2016 - September 2016	Operational changes to Rakaunui Road LDS not reflected in Operations and Management Plns (wre. Removal of buffer zone and retirement of 2 blocks). A new version of the Operationa and Management Plan is being prepared Draft Plan completed and under review by Operations and Asset Manager
July 2016	No inlet flow data for July - December 2016 followed by flow meter accuracy issues until June 2017. WWTP transfer pump volumes used to estimate incoming influent volumes. E.coli concentration exceeded 3,000,000 MPN/100mL consent limit over July 2016, reaching a peak 30 day median of 3,454,500 MPN/100mL
28 September 2016	Odour complaint received by phone from 23 Stevenson Way. No known issue for odour.
October 2016	Average nitrogen discharge over LDS for October 2016 was 66.2 kg/ha or 794 kg/year, over consent limit.
November 2016	Average nitrogen discharge over LDS for December 2016 was 55.1 kg/ha or 661 kg/year, over consent limit.
December 2016	Average nitrogen discharge over LDS for December 2016 was 63.5 kg/ha or 762 kg/year, over consent limit.
9 January 2017	Odour complaint from 9 January 2017 - investigated but possibly from network
March 2017	Average nitrogen discharge over LDS for December 2016 was 59.3 kg/ha or 712 kg/year, over consent limit.
June 2017	Average nitrogen discharge over LDS for December 2016 was 55.1 kg/ha or 661 kg/year, over consent limit.
View Road LDS	
January 2017 - June 2017	As of January 2017, no volume data available. Previously used templates for totalising volumes do not work. Therefore, daily total discharge, discharge to individual pivots, application rates and mass nitrogen discharge can not be determined and assessed for compliance Completion of upgrades to Taupō and Rakaunui has allowed comparison of operator, historian and template data which reveals significant error in template data, reported historically for compliance. Accurate data reporting now waiting on completion of control system changes Site not operated in accordance with Management Plan over this period. Insufficient records available to report to WRC to demonstrate compliance.
Taupo Odour	
July 2016 - September 2016	Consent variation required to remove reference to FOG reception facility
July 2016 - September 2016	Consent variation required to change wording of condition requiring reporting of boiler and flare outages
28 September 2016	Odour complaint received by phone from 23 Stevenson Way. No known issue for odour.
9 January 2017	Odour complaint from 9 January 2017 - investigated but possibly from network
Acacia Bay	
July 2016	Average daily mass discharge of total nitrogen = 2.76 kg/day from 1 July 2016 - 31 July 2016, or 1007 kg/year, exceeding consent limit of 700 kg/year
October 2016 - December 2016	Median TN for monitoring year (calculated from 1 July 2016 to end of reported month) exceeded consent limit of 6 g/m3
July 2016 - June 2017	Consent requires daily measurement of effluent discharge volumes - flow measurement ot be installed as part of disposal field upgrade
March 2017 - June 2017	Average daily mass discharge of total nitrogen = 2.8 kg/day from 1 July 2016 - 31 July 2017, or 1015 kg/year, exceeding consent limit of 700 kg/year
March 2017	Two instances of TN exceeding RC limit of 7.5 kg/day on the 15th (10.7 kg/day) and 22nd (8.7 mg/L)
June 2017	Three instances of TN exceeding RC limit of 7.5 kg/day on the 7th (8.8 kg/day), 14th (8.2 kg/day) and 21st (8.9 mg/L)
Kinloch	
December 2016 - June 2017	Average daily discharge >170 m3/day, the interim consent limit used prior to installation of flow balancing
January 2017 - June 2017	Elevated TN in treated effluent over January pushed daily discharge of TN for year to date >380 kg/day (605 kg/year at 31 January 2017). Peaked at 26.2 kg/day on the 4th of January 2017
Waitahanui	
July 2016 - September 2016	Nitrogen concentrations in treated effluent exceed resource consent limit of 15 mg/L 90 percentile over entire period, ranging from 27.6 to 43.9 mg/L.
8 September 2016	Treatment Plant turned off - no further discharge

Motuoapa	
1 July 2016 - 4 August 2016	No influent flow data until 4/08/16
July 2016 - October 2016	Compliance with condition 7 not be achieved until daily influent and effluent volumes can be reported - effluent flow data available from 1 November 2016
December 2016 - April 2017	Total N 90 percentile (over 10 weeks) exceeded consent limit of 10 g/m ³ , peaking at 53.5 g/m ³
December 2016 - February 2017	Weekly TN exceeded consent limit of 31.5 kg/week, peaking at 98.8 kg/week
January 2017 - June 2017	Annual TN discharge > 670 kg/year, 754 kg/year at years end
Turangi	
July 2016 - June 2017	Monitoring programme change to replace wetlands ecological assessment with more detailed sediment and surface water monitoring. Changed programme not yet approved by WRC who will issue technical NC
1 - 5 September 2016	E.coli exceeds 90 percentile consent limit of 400 MPN/100mL between 1 and 5 September 2016, at 516 MPN/100mL.
October 2016 - April 2017	Elevated nitrogen in treated effluent pushed 90 percentile over consent limit of 15 g/m ³ , peaking at 25.2 g/m ³ and 17.5 at end of year
Omori	
July 2016	Lack of automated daily effluent discharge volumes prevents full compliance with consent. Daily discharge volumes estimated using manually collected flows recorded on site by operator.
August 2016	Effluent flow data available from 5 August 2016. Influent flow meter not readign accurately.
July 2016 - February 2017	Between 1 July and 28 February, 25 incidents of flow measurement exceeded consent discharge limit of 800 m ³ /day
April 2017	1 April 2017 - effluent discharge 976 m ³ /day, over consent limit of 800 m ³ /day
Whareroa	
August 2016	To prevent pond overflow, irrigation undertaken over 7 days from 29 July and 7 days from 26 August, prior to regenerated Lucerne crop reaching 10 cm, resulting in non-compliance with condition 10
December 2016	Irrigation undertaken over 8 days, over the 3 days intended by consent.
January 2017	No irrigation between 20 December 2016 and 1 February 2017. Therefore non-compliant with condition to irrigate at 12 day intervals
July 2016 - November 2016	Influent flow data unavailable - control system upgrade complete but flow meter not working. Daily influent and irrigation volumes available from December 2016
July 2016 - June 2017	Soil moisture readings not taken prior and post irrigation events - affects compliance with conditions 10, 13, 14 and 22
July 2016 - June 2017	No weather station to record daily rainfall data
July 2016 - June 2017	Sub-surface cut off drain not installed
July 2016 - June 2017	Soil and crop management plan review overdue
Whakamaru	
October 2016	Annual report due 30 October. Report not submitted as new consent granted 1 month prior to end of year. Considered best use of resource to report a full years monitoring, i.e. 1 July 16 to 30 June 17
February 2017	As of February 2017, TDC has determined there may be issues with integrity of flow data. Investigation is pending.
January 2017	6 monthly compliance update report deadline of 30 January 2017 missed due to high volume of reporting at this time and limited resource over holiday period. Update provided May 2017.
November 2016 - June 2017	Lake shore enhancement plan due for submission to WRC 24 November 2016. Mercury Energy holding up confirmation of plan