



Quarterly Summary

Māngere Wastewater Treatment Plant

Reporting period: March – May 2026

Issue Date: 15 June 2026

Quarterly Operations Executive Summary

This quarterly summary provides operational and consent-required data for Māngere Wastewater Treatment Plant (WWTP) for the period of March to May 2026.

Compliance was achieved with all influent and effluent volume limits, as well as effluent quality limits this quarter. Two low-UV incidents in non-bypass channels triggered reactive shellfish monitoring in accordance with Special Condition 25(6) of Consent 30083. Both incidents occurred during wet weather events. Results have been received and were all less than detection limit for both enterovirus or adenovirus.

In addition, there were three incidents on 26 March, 8 and 24 April relating to a pump fault at IPS2 which resulted in periods of flow to secondary treatment lower than 9m³/s during RC Filter bypass events. A mechanical issue with the pump caused it to trip due to high temperature resulting in the lower flows from IPS2. The pump needs to be taken out of service for maintenance, but could not be taken offline due to another IPS2 pump being out of service at that time. The offline pump is now back in service, and the pump requiring maintenance is scheduled to be taken offline in June. Effluent quality continued to meet consent standards during and following these incidents.

Digester 3 was taken offline and emptied during the quarter in order to undergo maintenance as detailed in the previous quarter report (Q3, December 2025 – February 2026). The digester was handed over from Operations to the maintenance contractor in early June. The remaining online digesters have maintained sufficient operating capacity meaning that, to date, TWAS diversion and disposal at Puketutu has not been required.

There were no non-compliances with Trade Waste Agreements or other contaminant issues identified through the trade waste monitoring programme over this quarter that impacted on operations at Māngere WWTP, or that otherwise lead to adverse effects on the Manukau Harbour. An observed increase in zinc from the Eastern Interceptor in April is believed to be related to wet weather.

Midge control via chain dragging continued weekly through March, switching to the fortnightly winter schedule from April/May. Weekly entomologist monitoring continued throughout and numbers remain very. No midge-related complaints were received.

Five odour-related complaints were received this quarter; four in March and one in May. All but one of the complaints were received from the same residence in Māngere Bridge. Investigations to date (including from the previous quarterly period) have found no issues or ongoing maintenance at the plant that could be contributing unusual or excessive odour. Weekly onsite monitoring over this time has not detected any significant changes in odour around the plant. In addition, routine monthly, as well as additional responsive community odour monitoring has so far not detected any plant odours in the wider community. Nonetheless, with the addresses being roughly north of the plant, and a predominant SE-SW wind direction over the period, the WWTP cannot be excluded as a potential source of the odour. Additional community monitoring is continuing to further investigate the source.

31,248 tonnes of biosolids material was placed at the Puketutu Biosolids Facility during this quarter. The total storage capacity is approximately four million tonnes, and the facility is currently at 60% of capacity.

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1 COMPLIANCE REPORT

M-15 final effluent quality results

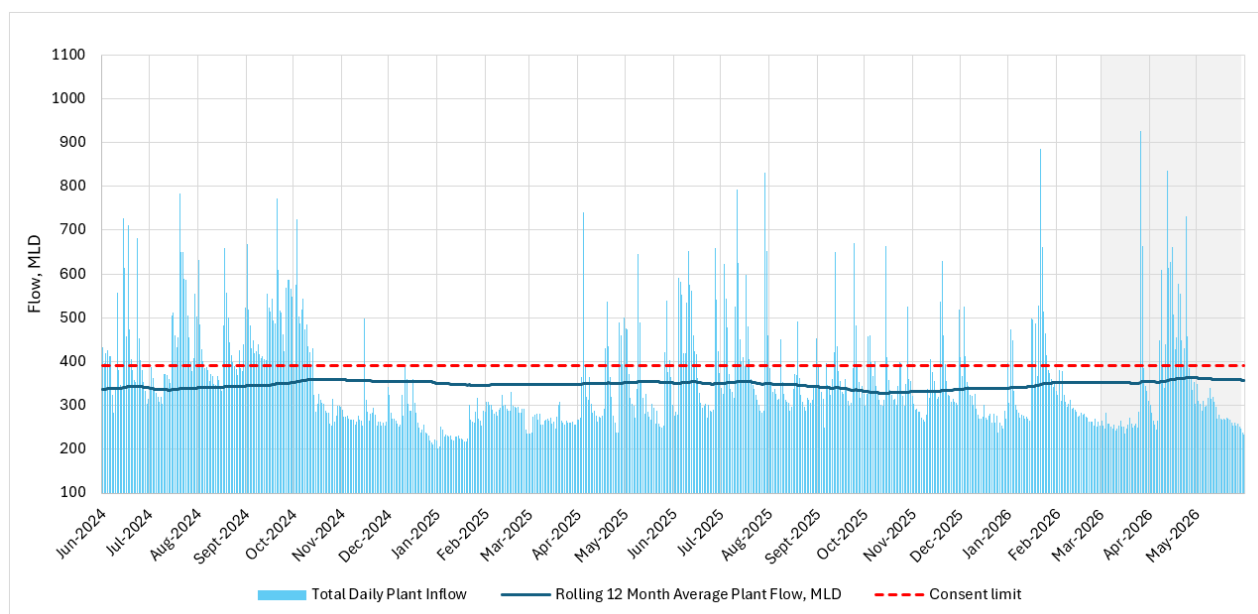
Table 1-1: Quarterly final effluent quality summary in relation to requirements of Consent 30083.

PARAMETER	Mar-26	Apr-26	May-26		COMPLIANCE
					MONTHLY MEAN
BOD (g/m ³)	3.1	3.3	1.8	<	15
NFR (g/m ³)	6.7	5.5	4.3	<	15
Total Petroleum Hydrocarbon (g/m ³)	0.3	0.3	0.3	<	0.5
Ammoniacal Nitrogen (g/m ³)	0.6	0.7	0.9	<	3 / 5 ^(a)
Total Nitrogen (g/m ³)	7.6	7.3	9.3	<	9.5 / 35 ^(b)
Reactive Phosphorus (g/m ³)	2.4	2.3	3.0	<	9
Dissolved Oxygen, %saturation	99.1	90.2	97.8	>	80%
					MONTHLY MAXIMUM
BOD (g/m ³)	22.0	16.0	3.1	<	50
pH	7.7	7.4	7.6	<	9
Ammoniacal Nitrogen (g/m ³)	4.6	3.7	7.1	<	6 / 15 ^(a)
					MONTHLY MINIMUM
pH	6.9	6.8	7.0	>	6.5
					95%TILE OVER THREE DISCRETE MONTHS
BOD (g/m ³)	9.5			<	30
NFR (g/m ³)	12.0			<	30
					MONTHLY % UV MEASUREMENT
UV Dose Applied % Measurement	99.72	99.93	99.97	>	99.00

(a) Ammoniacal Nitrogen limits for the period of April-November is 5 g/m³ for monthly mean and 15 g/m³ for monthly maximum. For December-March the limit is 3 g/m³ for monthly mean and 6 g/m³ for monthly maximum.

(b) Total Nitrogen limit for the period of April-November is 35 g/m³. For December-March the limit is 9.5 g/m³.

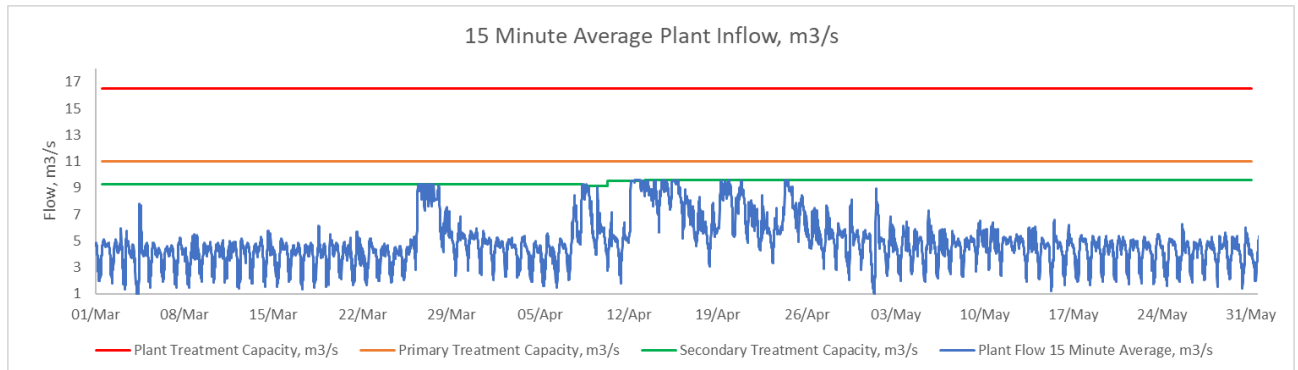
Rolling 12 months average daily plant inflow



2 OPERATIONS REPORT

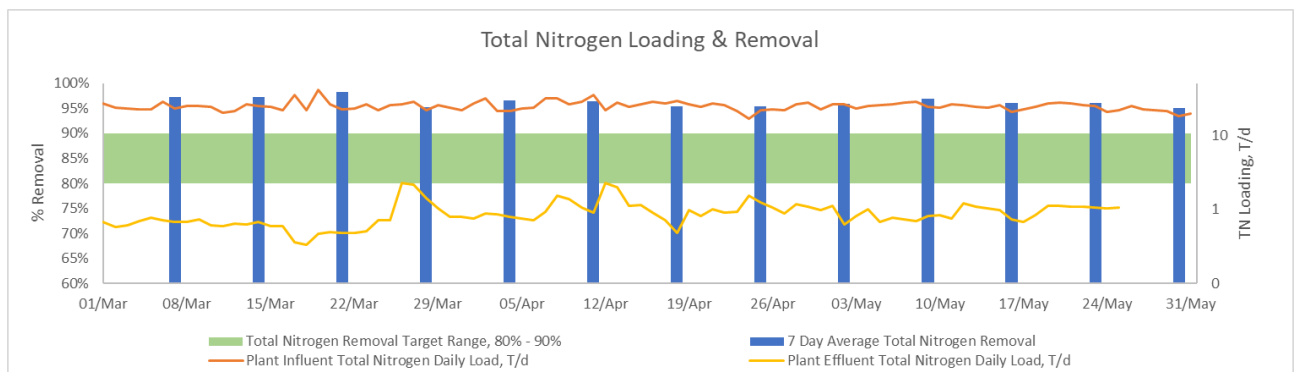
Liquid Process

15-minute interval plant flow



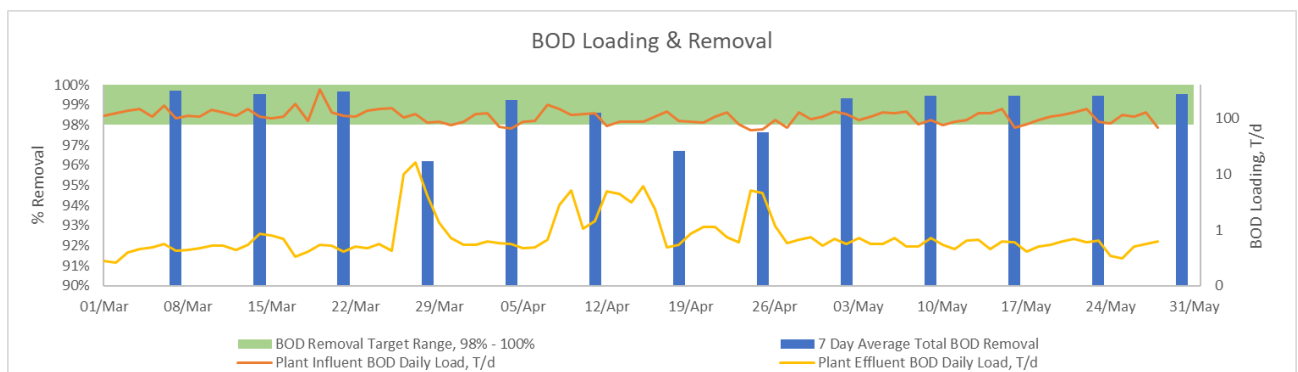
Ten RC Filter bypass events occurred in this quarter. Secondary Treatment Capacity set point was between 9.13 to 9.58 m³/s in this quarter.

Total Nitrogen removal and loading



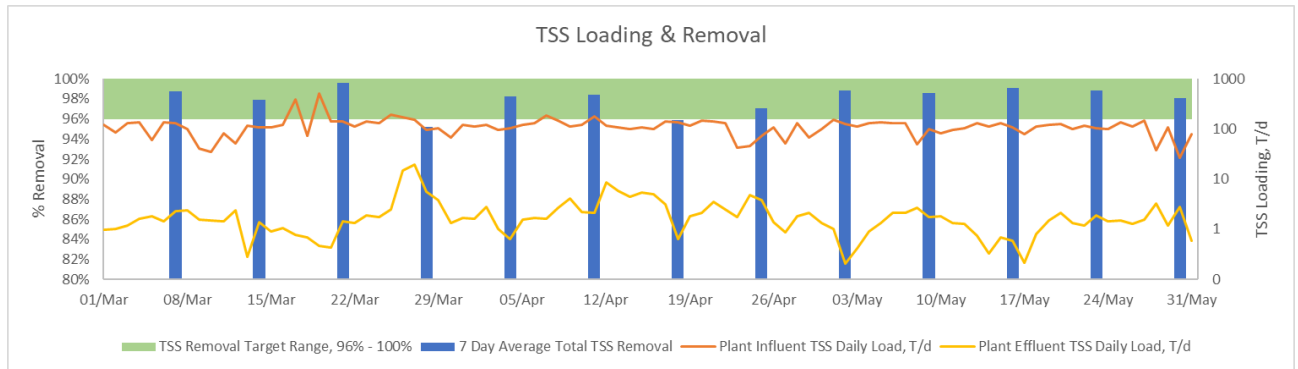
Please note logarithmic scale on secondary vertical axis (Loading, T/d).

BOD removal and loading



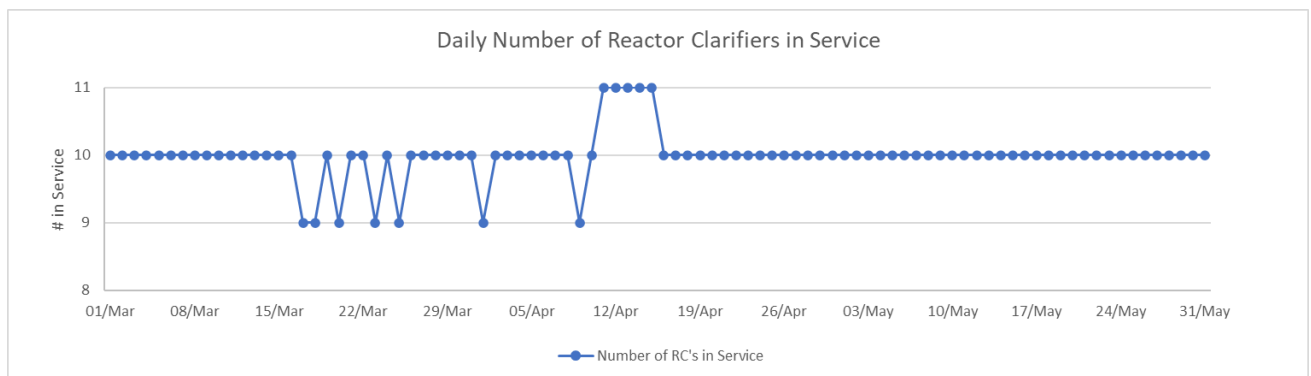
Please note logarithmic scale on secondary vertical axis (Loading, T/d). Lower BOD removal rates in late March and April were due to heavy rain and RC Filter bypass events during those weeks.

TSS removal and loading



Please note logarithmic scale on secondary vertical axis (Loading, T/d). Lower TSS removal rates in late March and April were due to heavy rain and RC Filter bypass events during those weeks.

Number of Reactor Clarifiers in service



The change between 9 or 10 RCs in service in March and April was due to repair work at BNR Splitter box 4 chambers during which the inlet penstock to either RC10 or 11 had to be closed to carry out this work. RC1 was back in service on 11 April, RC7 was taken out of service for overhaul from 16 April.

UV based virus monitoring

Monitoring of enterovirus in shellfish samples is required in accordance with Special Condition 25(6) of Consent 30083 if one of the following conditions are triggered:

- Two consecutive exceedances of 80 cfu/100 mL for enterococci indicator bacteria (i.e., when no high flow diversion is occurring), measured twice daily in the UV effluent;
- Maximum UV dose is being applied to high flow diversion flows ($> 9 \text{ m}^3/\text{s}$) in accordance with required levels, but the applied UV dose is less than $35 \text{ mWs}/\text{cm}^2$ for more than 2 hours in non-high flow diversion channels; or
- In the event that effluent from the WWTP has not been subjected to the appropriate UV dose.

Two such incidents occurred throughout this quarterly reporting period; these are explained in Table 2-1.

Table 2-1: Shellfish sampling triggered by Special Condition 25(6) for this quarterly reporting period.

Date of Event	Trigger for shellfish collection/ Cause of event	Day Two Shellfish Sampling results	Week Two Shellfish Sampling results
26-Mar-26	UV applied dose rate was below the consent limit of $35 \text{ mWs}/\text{cm}^2$ in non-bypass Channel 2 for greater than 2 hours in total between approximately 9:45am and 1:30pm on 26 March. This was due to a combination of increased flow rate through Channel 2 linked to wet weather, and UV Channel 6 being out of service for maintenance, restricting the number of treatment channels available at the time. There was low-applied UV in other non-bypass channels over this time, but none that exceeded 2 hours in duration.	28 Mar 2026 (Lab ref # 260330-072) Entero - all $<1.0 \text{ pfu}/10\text{g ww}$ Adeno - all $<4.0 \text{ MPN}/100\text{g ww}$	9 Apr 2026 (Lab ref # 260409-122) Entero - all $<1.0 \text{ pfu}/10\text{g ww}$ Adeno - all $<4.0 \text{ MPN}/100\text{g ww}$
12-Apr-26	UV applied dose rate was below the consent limit of $35 \text{ mWs}/\text{cm}^2$ in non-bypass Channel 2 for greater than 2 hours between approximately 4am and 7am on 12 April following significant wet weather event. This was due to a combination of increased flow rate through Channel 2 linked to wet weather, and UV Channel 7 being out of service for maintenance, restricting the number of treatment channels available at the time.	14 Apr 2026 (Lab ref # 260414-120) Entero - all $<1.0 \text{ pfu}/10\text{g ww}$ Adeno - all $<4.0 \text{ MPN}/100\text{g ww}$	29 Apr 2026 (Lab ref # 260430-112) Entero - all $<1.0 \text{ pfu}/10\text{g ww}$ Adeno - all $<4.0 \text{ MPN}/100\text{g ww}$

Temporary warning signage was placed at the seven locations, as indicated on Figure 2-1 below, following notification of the 26 March event. The signs remained in place until the final test results were received from the 29 April sampling, confirming no virus was detected in the shellfish samples. In addition, a warning flag was posted on the Safeswim website, as per Figure 2-2.

A pump fault at IPS2 on 26 March, 8 and 24 April resulted in periods of flow to secondary treatment lower than $9 \text{ m}^3/\text{s}$ during RC Filter bypass events. Although these incidents did not trigger the UV-based requirements for reactive shellfish sampling under Condition 25(6), each event coincided with either 48-hour or 2-week sampling from low-UV events on 26 March and 12 April. Therefore, it was decided to proceed with analysis of the 2-week samples for these events to investigate potential effects – usually 2-week samples are only analysed if 48-hour results return positive virus detections.



Figure 2-1: Example and locations of shellfish warning signage put out in response to plant UV incidents (yellow dots); the red dot indicates the permanent signage near the discharge.

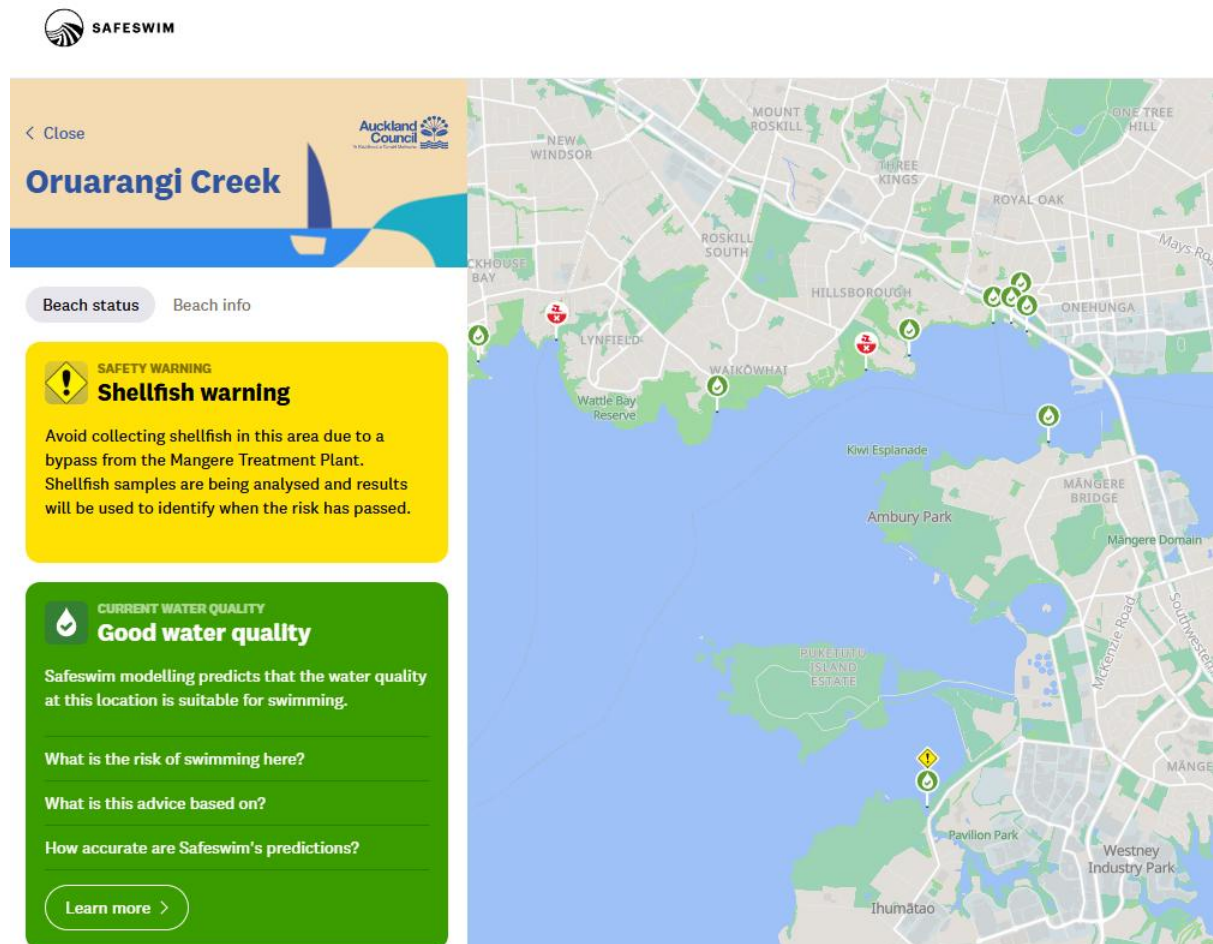


Figure 2-2: Example screenshot from the Safeswim website displaying the shellfish warning message.

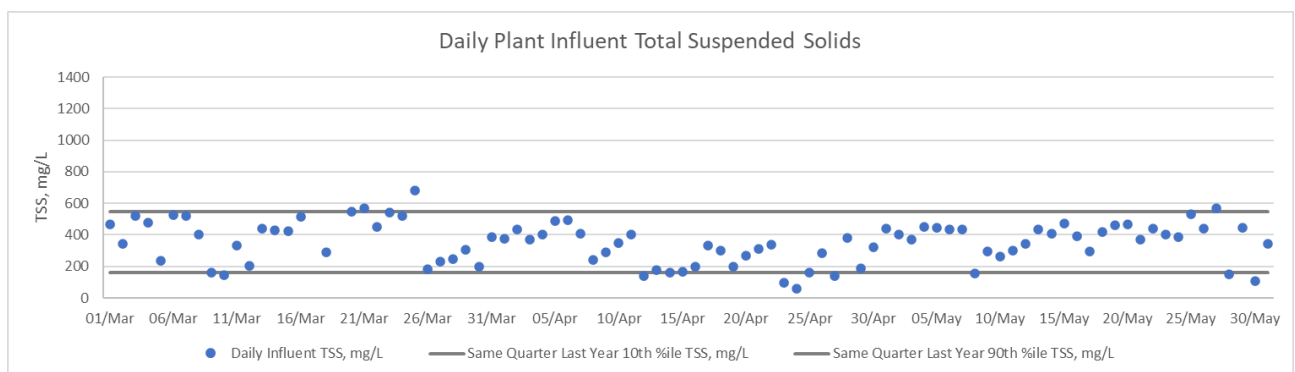
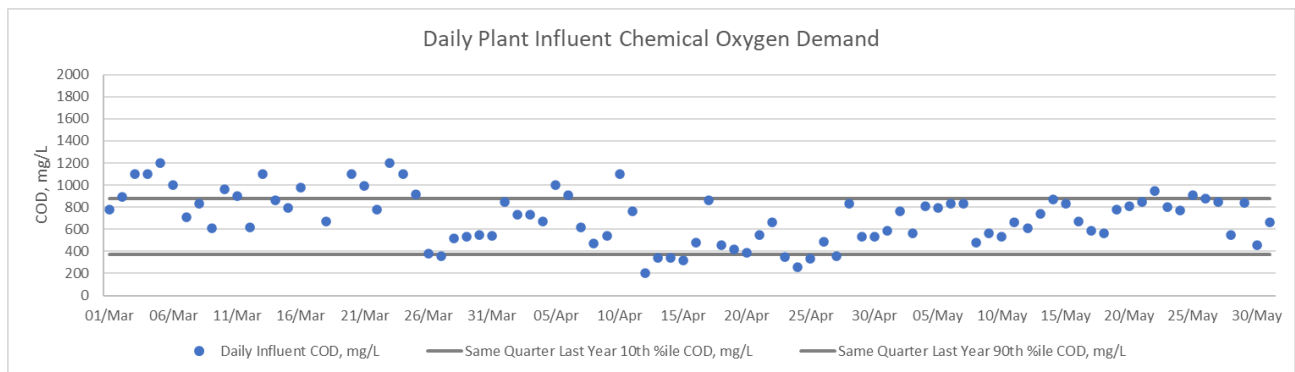
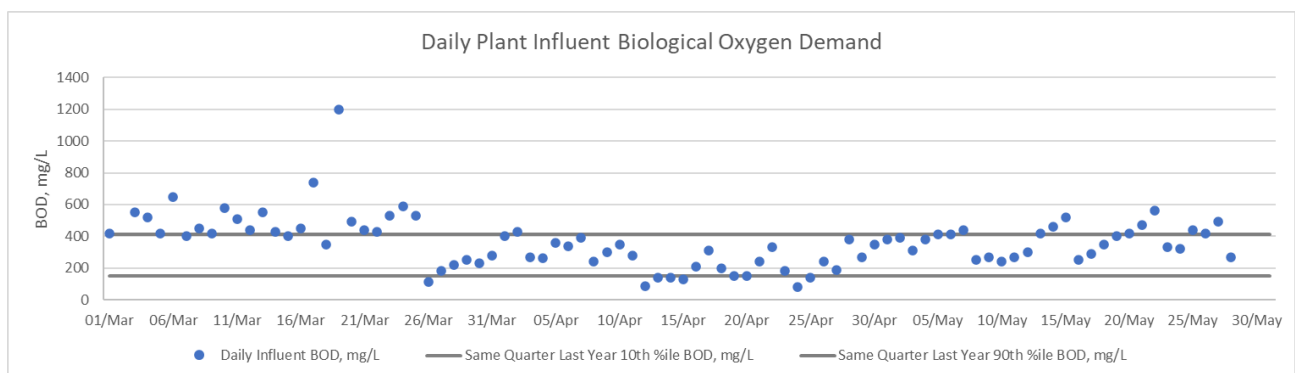
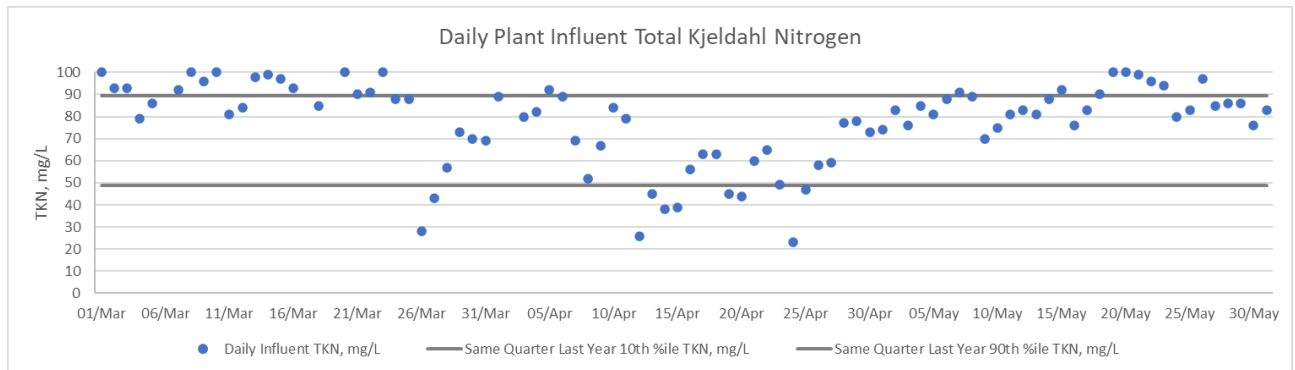
RC Filter High Flow Diversion event summary

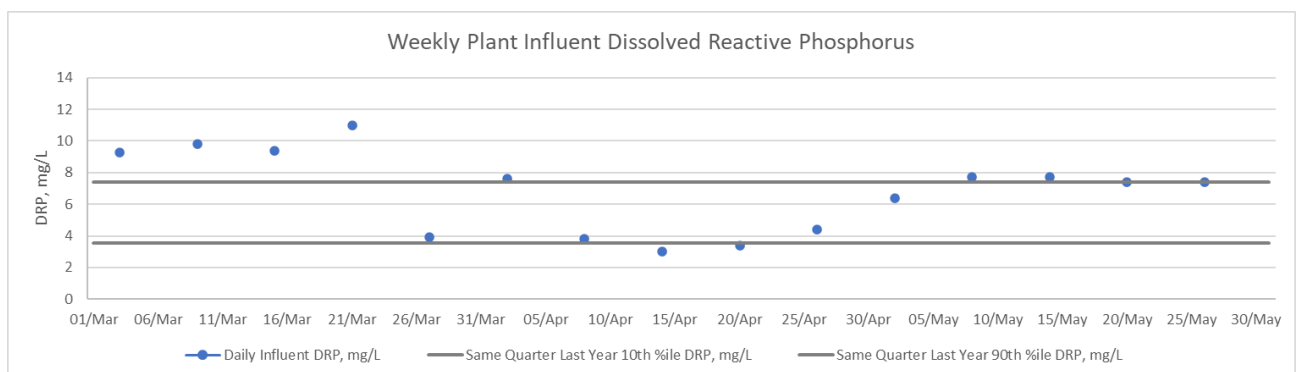
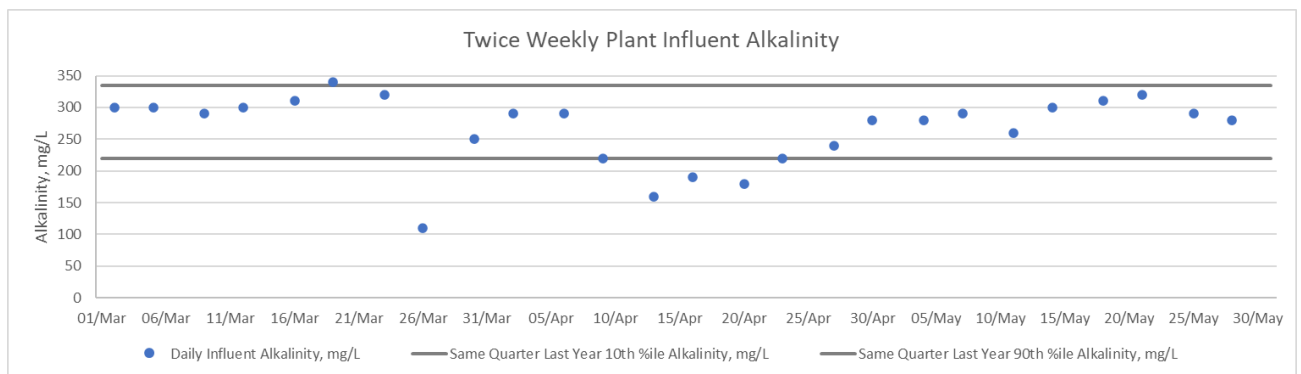
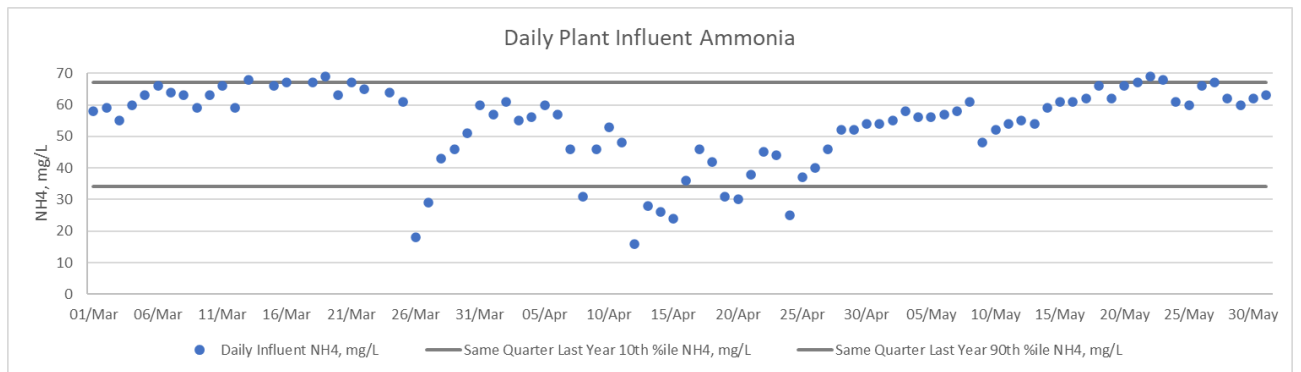
Event Number	Start Date & Time	End Date & Time	Duration	Diverted Volume (m³)	Secondary treated volume above 9m³/s (m³)
#2025-07	4/04/2025 9:06	5/04/2025 2:31	12 hrs 52 mins	87,460	32,087
#2025-08	19/04/2025 3:43	19/04/2025 17:24	12 hrs 9 mins	113,349	16,283
#2025-09	28/04/2025 3:42	28/04/2025 12:20	2 hrs 32 mins	13,055	1,398
#2025-10	30/04/2025 11:13	30/04/2025 12:08	35 mins	2,632	1,406
#2025-11	2/05/2025 15:05	2/05/2025 19:08	3 hrs 17 mins	15,217	4,527
#2025-12	9/05/2025 16:47	10/05/2025 16:53	18 hrs 5 mins	151,573	20,225
#2025-13	27/05/2025 8:24	27/05/2025 14:48	6 hrs 24 mins	36,498	21,989
#2025-14	29/05/2025 23:18	30/05/2025 2:03	2 hrs 48 mins	4,951	4,552
#2025-15	5/06/2025 22:23	6/06/2025 13:41	15 hrs 24 mins	91,585	61,405
#2025-16	9/06/2025 10:05	9/06/2025 15:05	5 hrs	15,133	13,320
#2025-17	10/06/2025 20:53	11/06/2025 21:59	1 day 1 hr 5 mins	205,387	58,992
#2025-18	12/06/2025 9:43	12/06/2025 19:01	9 hrs 18 mins	58,763	4,626
#2025-19	27/06/2025 11:06	28/06/2025 19:30	24 hrs 24 mins	189,565	13,984
#2026-01	3/07/2025 17:00	4/07/2025 13:54	21 hrs 6 mins	136,046	14,455
#2026-02	5/07/2025 0:00	5/07/2025 15:17	15 hrs 17 mins	10,903	5,133
#2026-03	11/07/2025 14:15	12/07/2025 21:03	1 d 7 hrs 12 mins	258,196	124,158
#2026-04	17/07/2025 10:28	17/07/2025 21:00	10 hrs 33 mins	79,571	41,842
#2026-05	29/07/2025 14:28	30/07/2025 16:00	1 d 2 hrs 24 mins	201,295	173,984
#2026-06	19/08/2025 10:12	19/08/2025 10:18	6 mins	411	312
#2026-07	12/09/2025 6:11	12/09/2025 21:19	13 hrs 15 mins	95,427	14,058
#2026-08	24/09/2025 10:03	24/09/2025 23:47	11 hrs 58 mins	76,053	12,924
#2026-09	14/10/2025 9:56	14/10/2025 23:38	12 hrs 42 mins	99,177	15,545
#2026-10	24/10/2025 4:05	24/10/2025 4:18	13 mins	1,010	265
#2026-11	28/10/2025 11:13	28/10/2025 15:38	3 hrs 3 mins	13,330	3,733
#2026-12	18/11/2025 22:51	19/11/2025 21:44	19 hrs 56 mins	171,480	21,528
#2026-13	30/11/2025 18:16	1/12/2025 1:38	6 hrs 10 mins	52,285	6,660
#2026-14	3/12/2025 18:48	4/12/2025 1:31	2 hrs 54 mins	16,194	3,132
#2026-15	31/12/2025 20:57	31/12/2025 21:23	26 mins	1,932	468
#2026-16	2/01/2026 22:47	3/01/2026 4:06	5 hrs 19 mins	31,830	5,742
#2026-17	16/01/2026 0:25	16/01/2026 12:26	11 hrs 17 mins	75,031	12,181
#2026-18	18/01/2026 10:09	18/01/2026 13:54	1 hr 58 mins	8,517	2,124
#2026-19	20/01/2026 16:51	20/01/2026 21:09	1 hr 50 mins	8,401	1,980
#2026-20	21/01/2026 9:45	23/01/2026 2:45	35 hrs 43 mins	385,667	38,574
#2026-21	26/03/2026 9:19	27/03/2026 23:00	35 hrs 38 mins	488,655	0*
#2026-22	8/04/2026 8:03	8/04/2026 19:36	8 hrs 44 mins	126,237	0*
#2026-23	9/04/2026 12:41	9/04/2026 13:16	35 mins	5,401	273
#2026-24	12/04/2026 3:38	13/04/2026 11:14	23 hrs 36 mins	257,545	49,276
#2026-25	14/04/2026 0:27	14/04/2026 1:53	34 mins	3,799	1,183
#2026-26	14/04/2026 14:25	14/04/2026 21:10	8 hrs 16 mins	30,245	17,261
#2026-27	15/04/2026 9:48	15/04/2026 21:45	8 hrs 28 mins	56,844	17,678
#2026-28	19/04/2026 19:47	19/04/2026 21:15	28 mins	3,032	974
#2026-29	20/04/2026 20:21	20/04/2026 21:12	15 mins	1,696	522
#2026-30	24/04/2026 7:30	25/04/2026 4:00	20 hrs 22 mins	180,298	0*

Note: High Flow Diversion event number convention follows the financial year, rather than calendar year. Grey shaded are the events from this quarter.

*Pump fault at IPS2 during bypass meant the average flow to secondary treatment was lower than 9m³/s during the event.

Influent chemistry monitoring

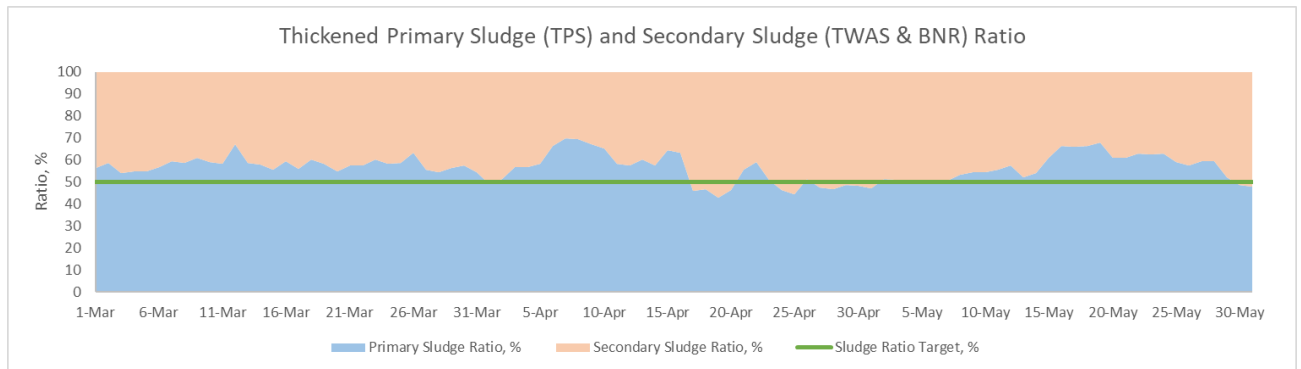




Notes: reduced concentrations of many parameters in late March and April linked to heavy rain events

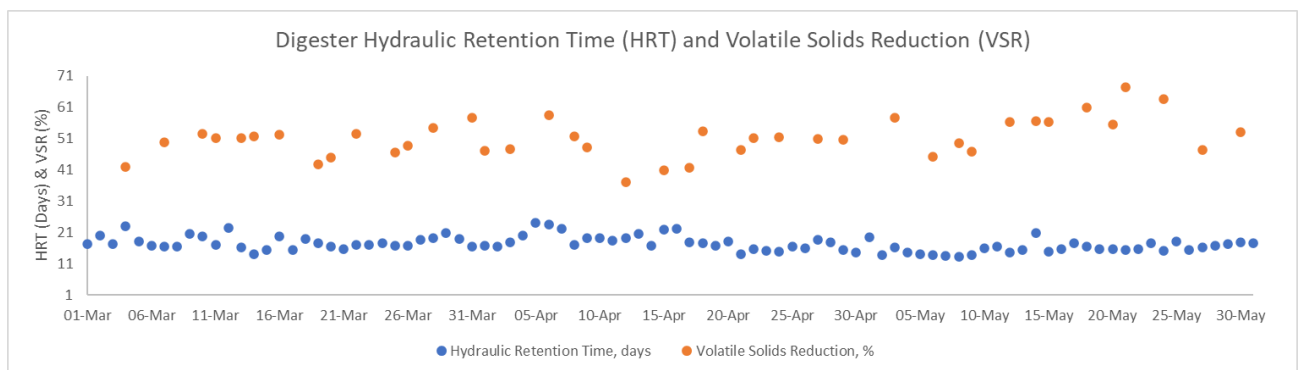
Solids Process

Primary and Secondary sludge ratio



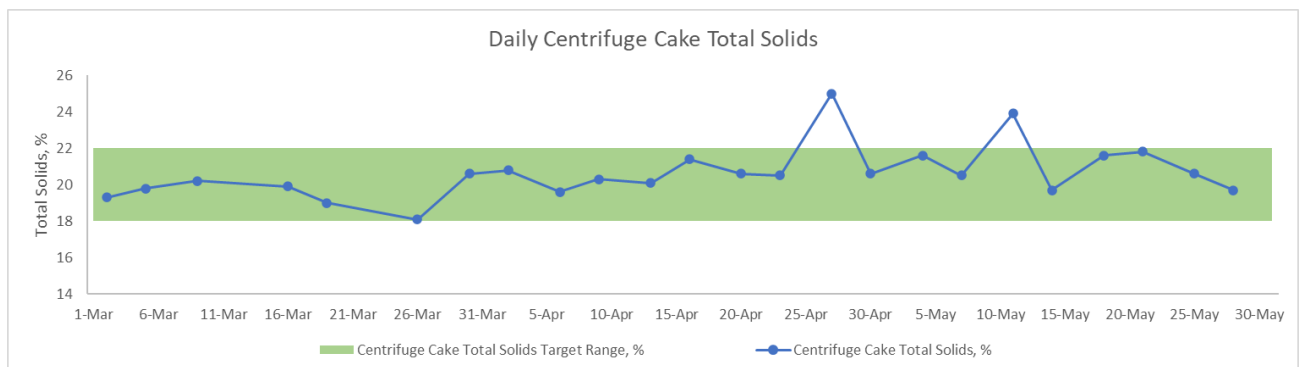
The slightly lower primary sludge ratio in late April was due to lower TPS solids concentration, likely due to heavy rain events.

Digester performance



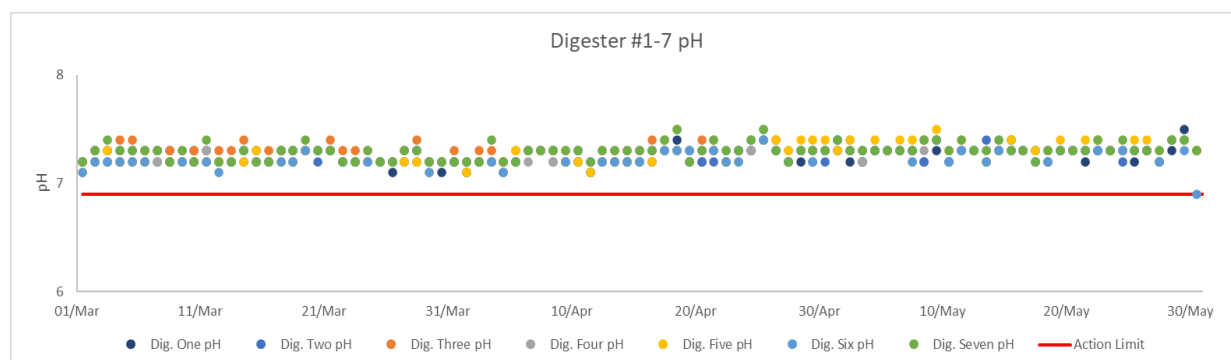
Average HRT in this quarter is 17 days.

Dewatering performance

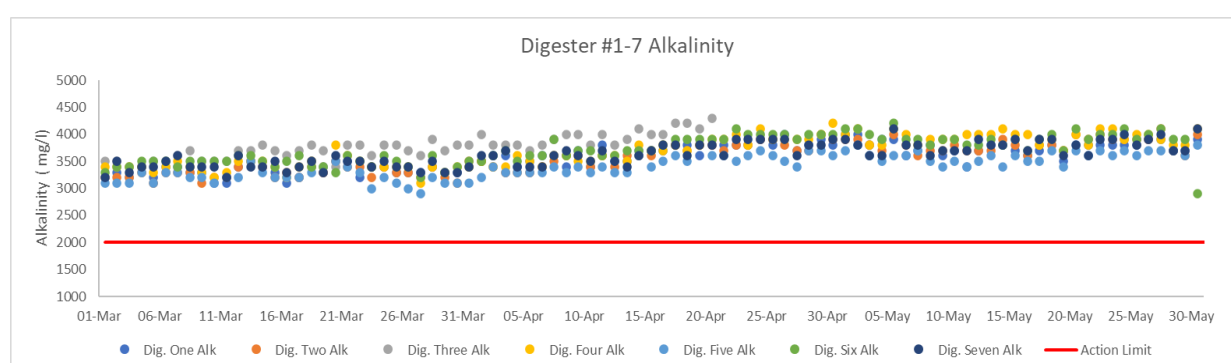


Centrifuge cake total solids percentage was within or exceeding the target range for the quarter.

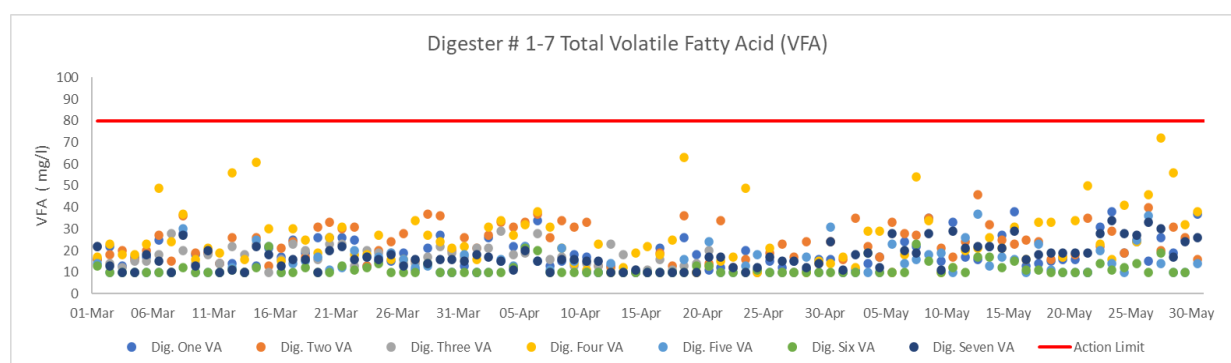
Digester Health Indicators



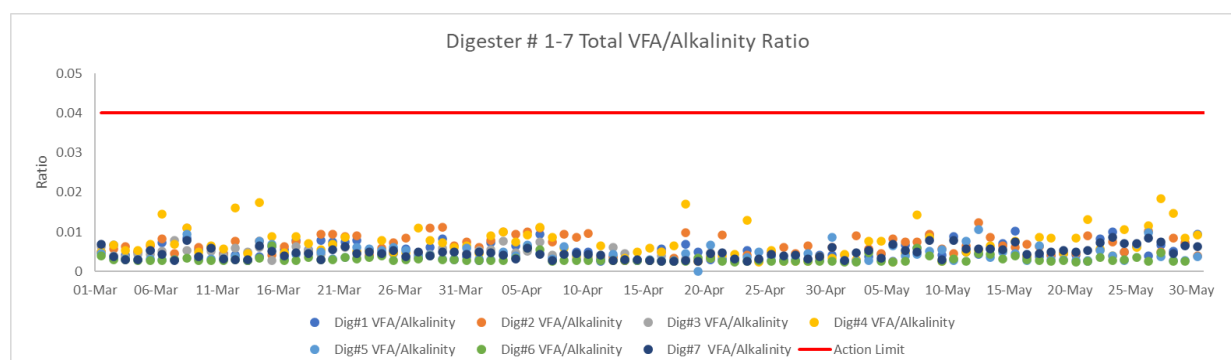
Normal operating range for digester pH is 6.9 - 7.4. The Mangere Digester Monitoring and Adjustment Management Plan Action Limit for pH is < 6.9. Monitoring of digester 3 stopped on 20 April when the digester was taken offline.



Normal operating range for digester alkalinity is 3,000 - 4,200 mg/L. The Mangere Digester Monitoring and Adjustment Management Plan Action Limit for alkalinity is < 2,000 mg/L.

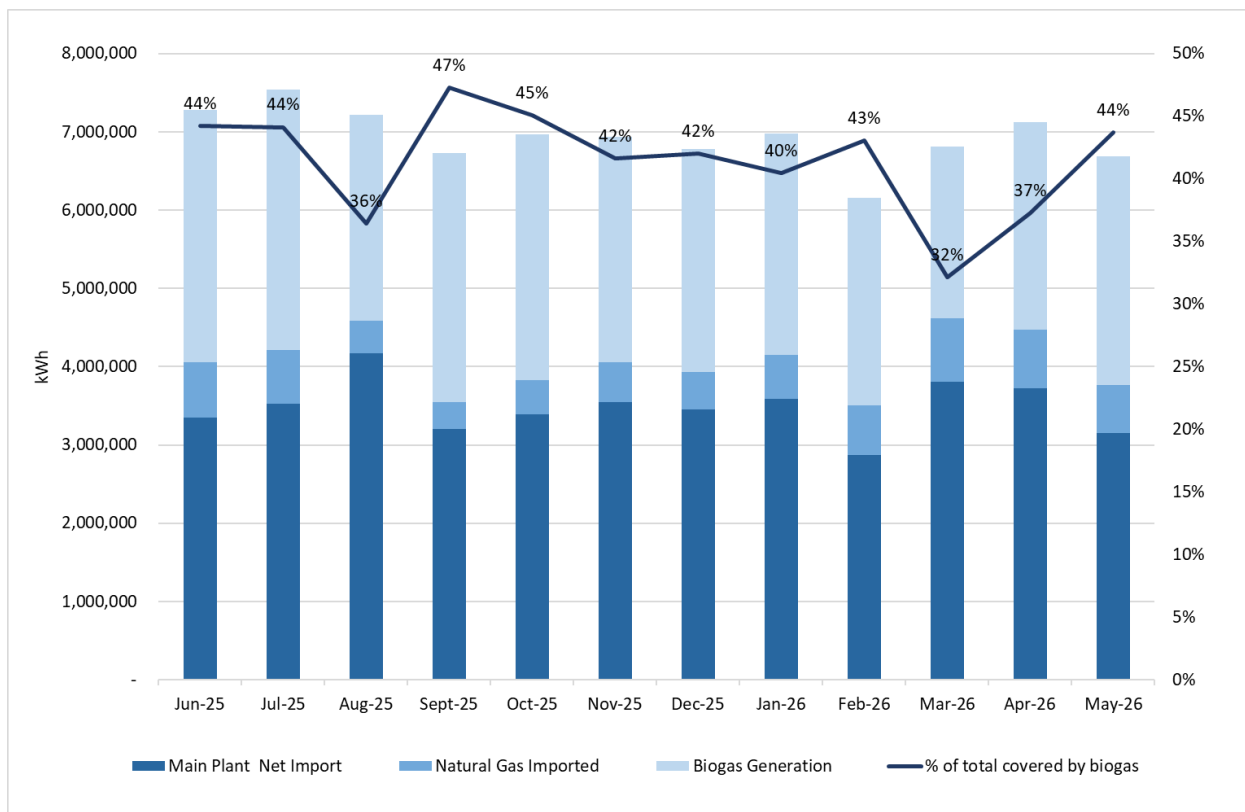


Normal operating range for digester VFA is 10 - 60 mg/L. The Mangere Digester Monitoring and Adjustment Management Plan Action Limit for VFA is > 100 mg/L; however, a more conservative limit of 80 mg/L is applied by site operations.



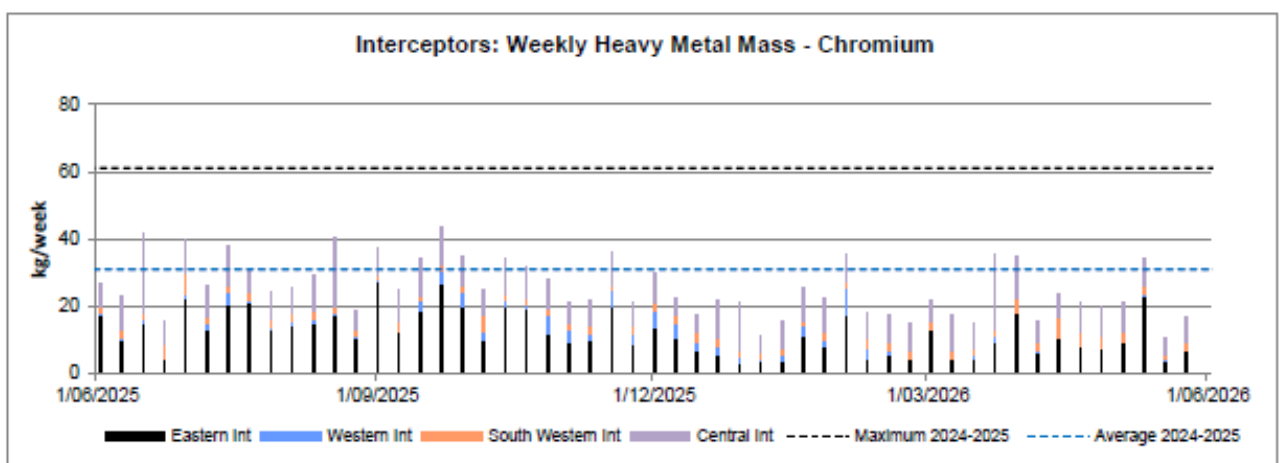
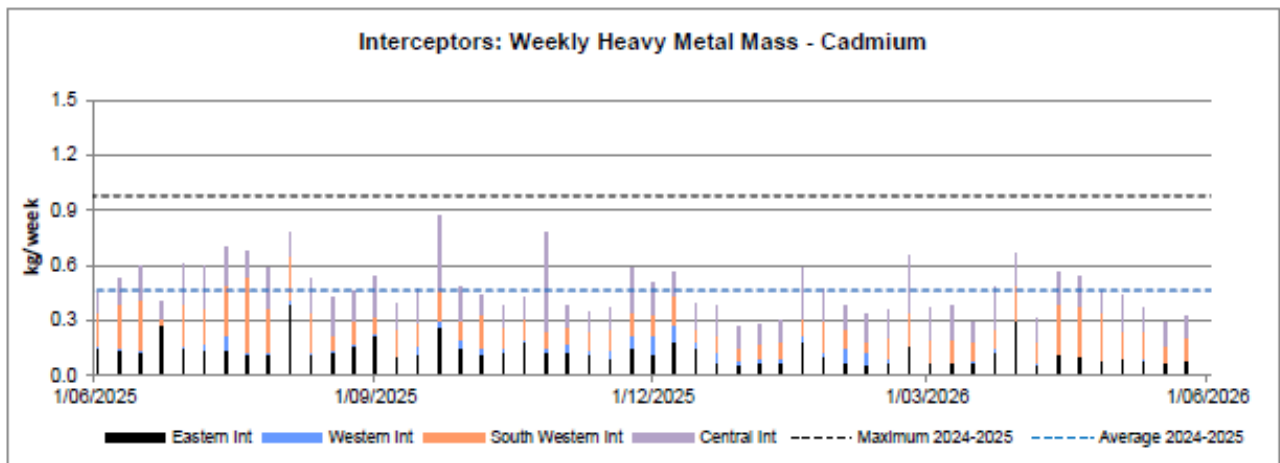
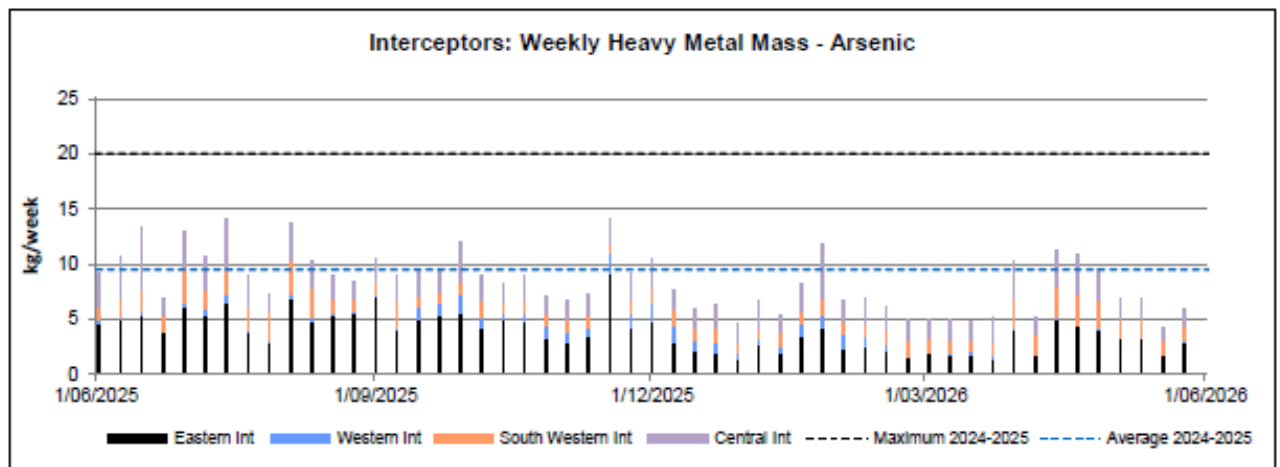
A VFA/Alkalinity ratio of 0.04 is applied by site operations as requiring further investigation/action.

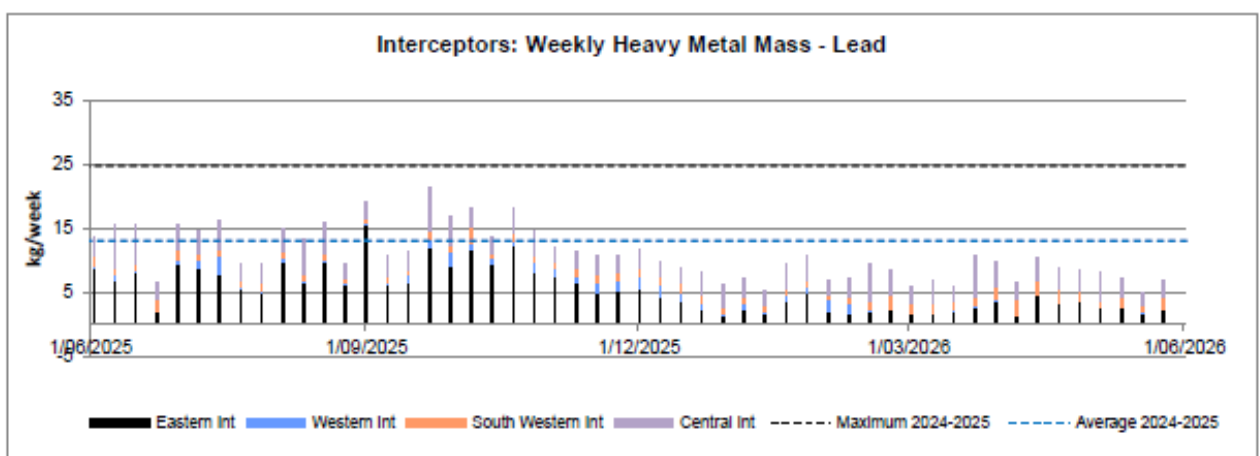
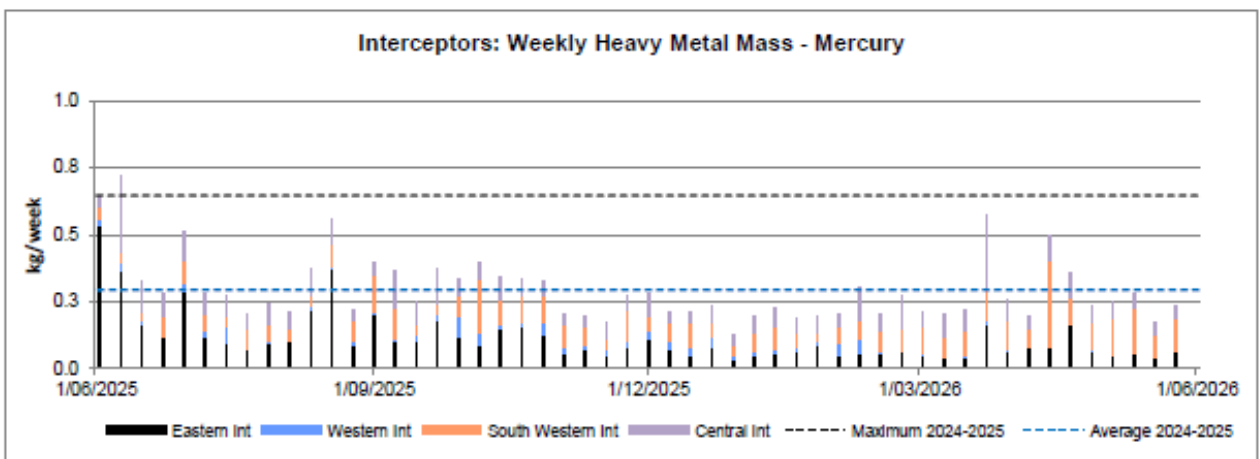
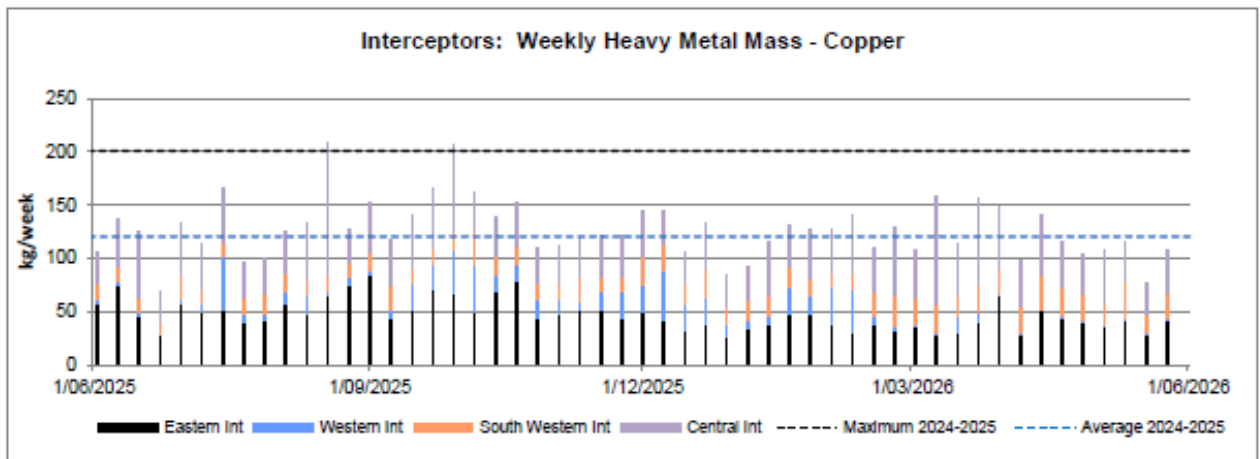
Imported Energy vs Biogas Generated Energy

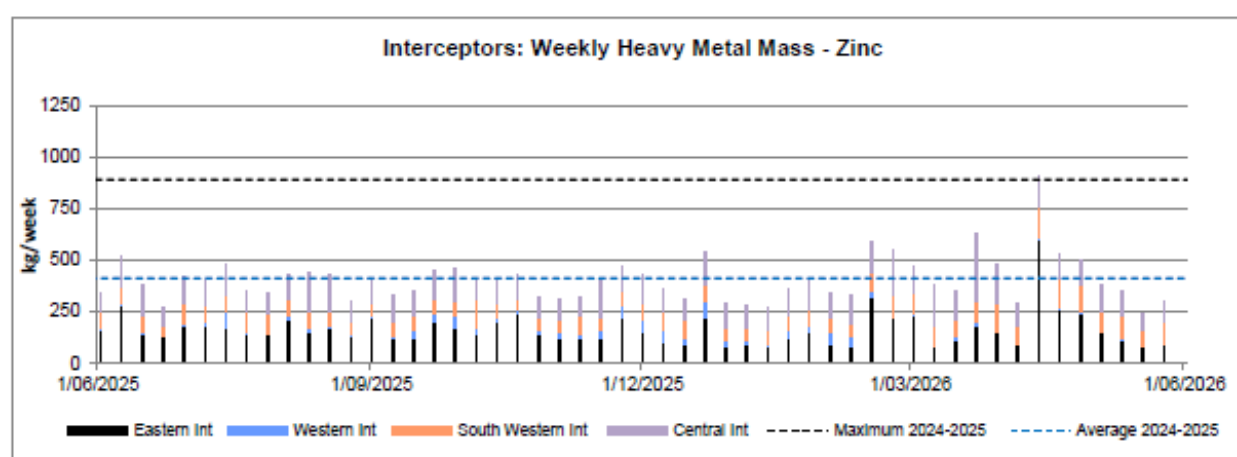
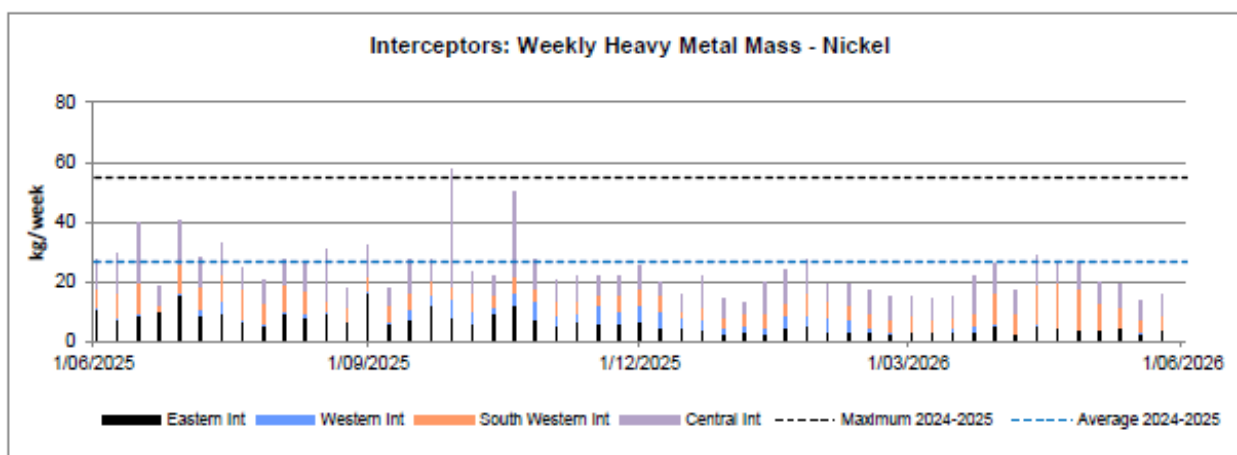


3 INFLUENT & BIOSOLIDS MONITORING

Heavy Metals – Interceptors





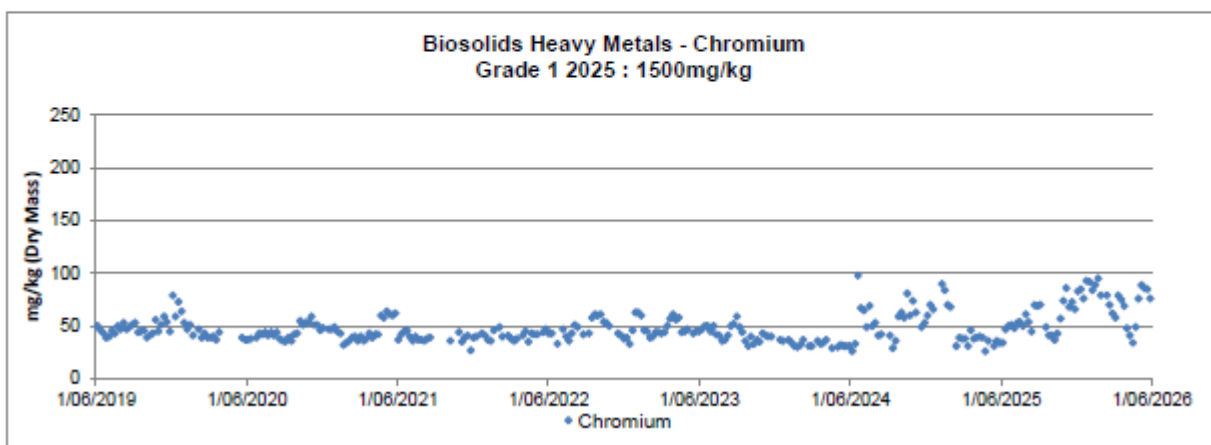
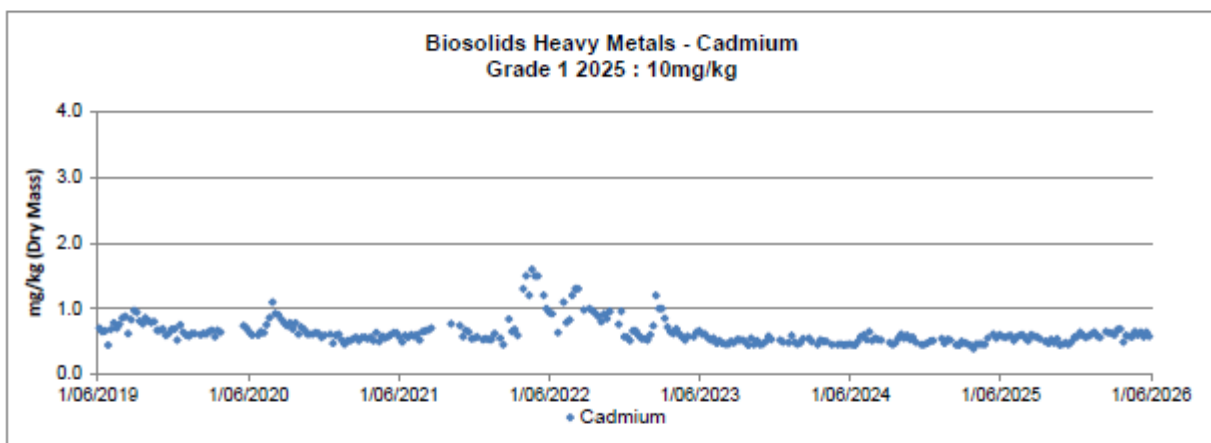
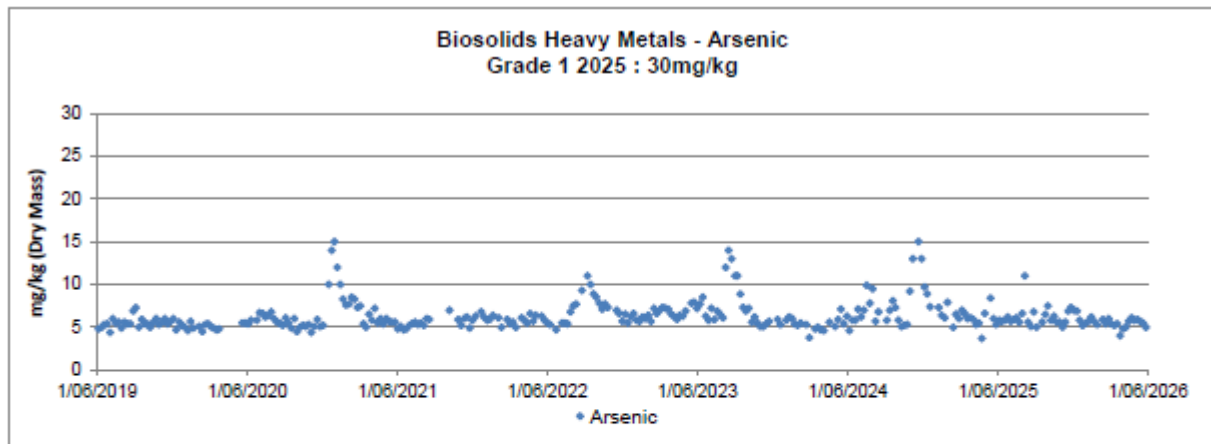


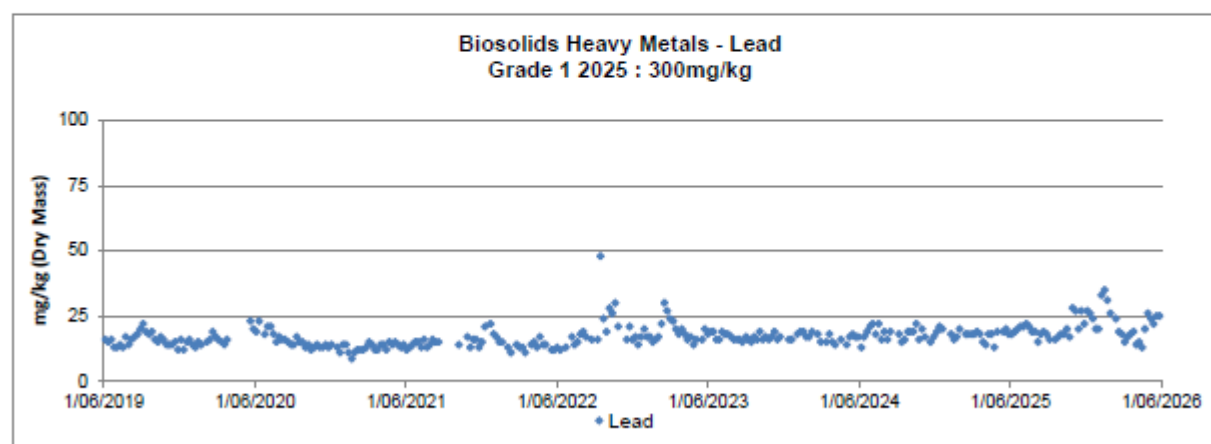
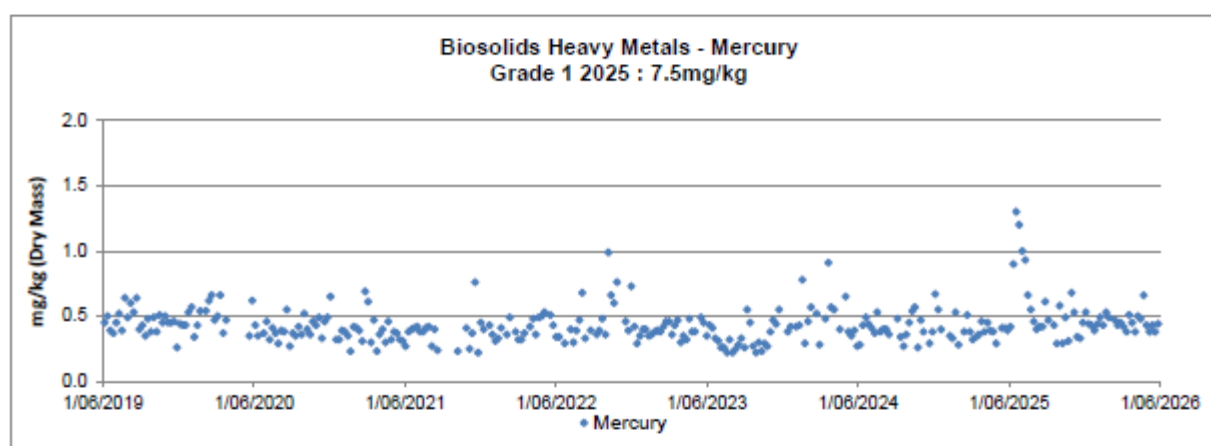
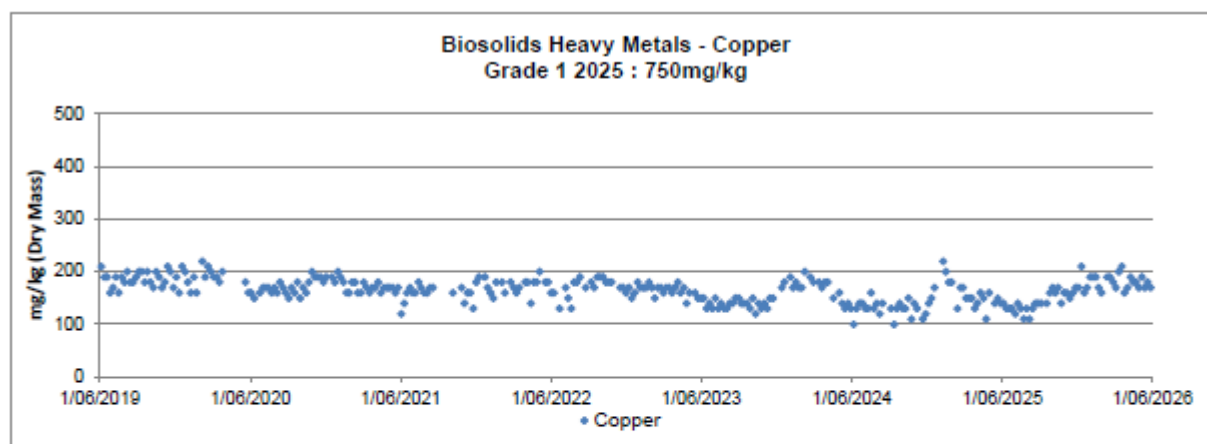
There was high rainfall during the week ending 13 April (Cyclone Vaianu) which would likely have contributed to the high Zinc noticed in the Eastern Interceptor. There were no trade waste non-compliances or other obvious potential causes for this elevated spike. There was no apparent impact from this spike on the biosolids quality.

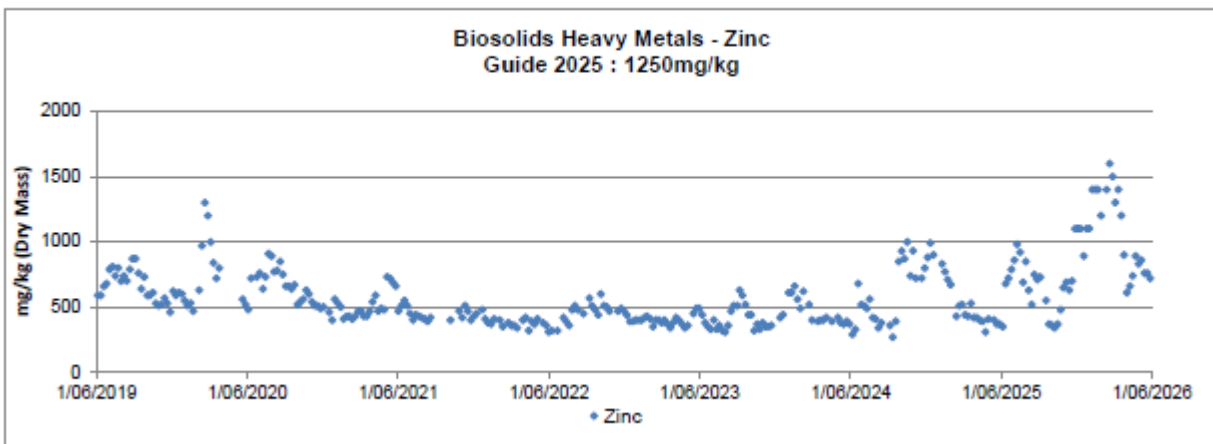
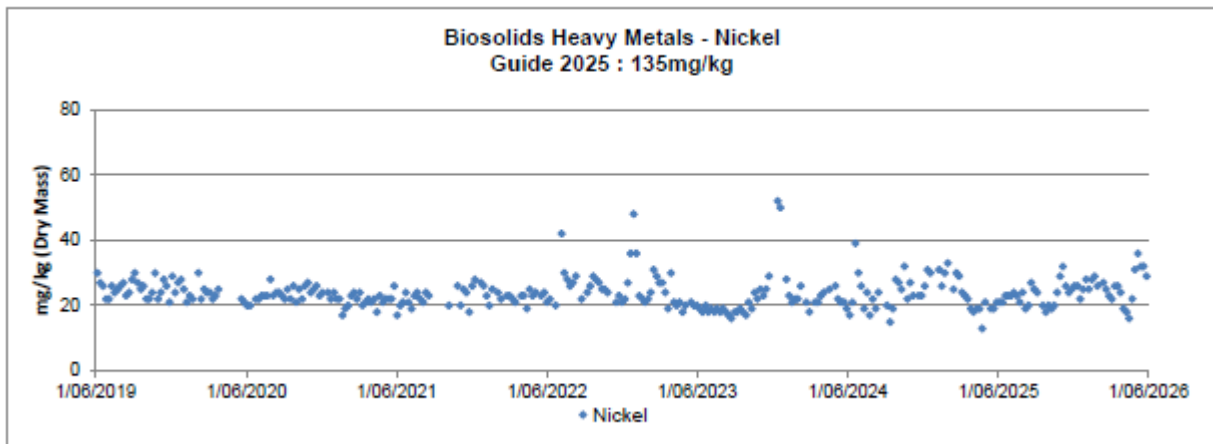
There were no Trade Waste non-compliances identified during the reporting period that impacted WWTP operations, treatment performance, compliance obligations, or the receiving environment.

The top five Trade Waste non-compliance categories recorded during the quarter were oil and grease (O&G) and pH exceedances associated with food manufacturing and food service premises. While these non-compliances had the potential to affect the local wastewater network and upstream infrastructure, they did not result in any identified adverse impacts on the WWTP. All non-compliances were investigated in accordance with Trade Waste procedures, with appropriate corrective actions implemented by the respective customers to address the causes of the exceedances and prevent recurrence.

Heavy Metals – Long-term trend in Biosolids







No conclusive cause for the elevated Zinc trend observed in biosolids between December 2025 and early April 2026 was identified. The trend was not reflected in influent loading over the same period and has since decreased.

4 MIDGE CONTROL REPORT

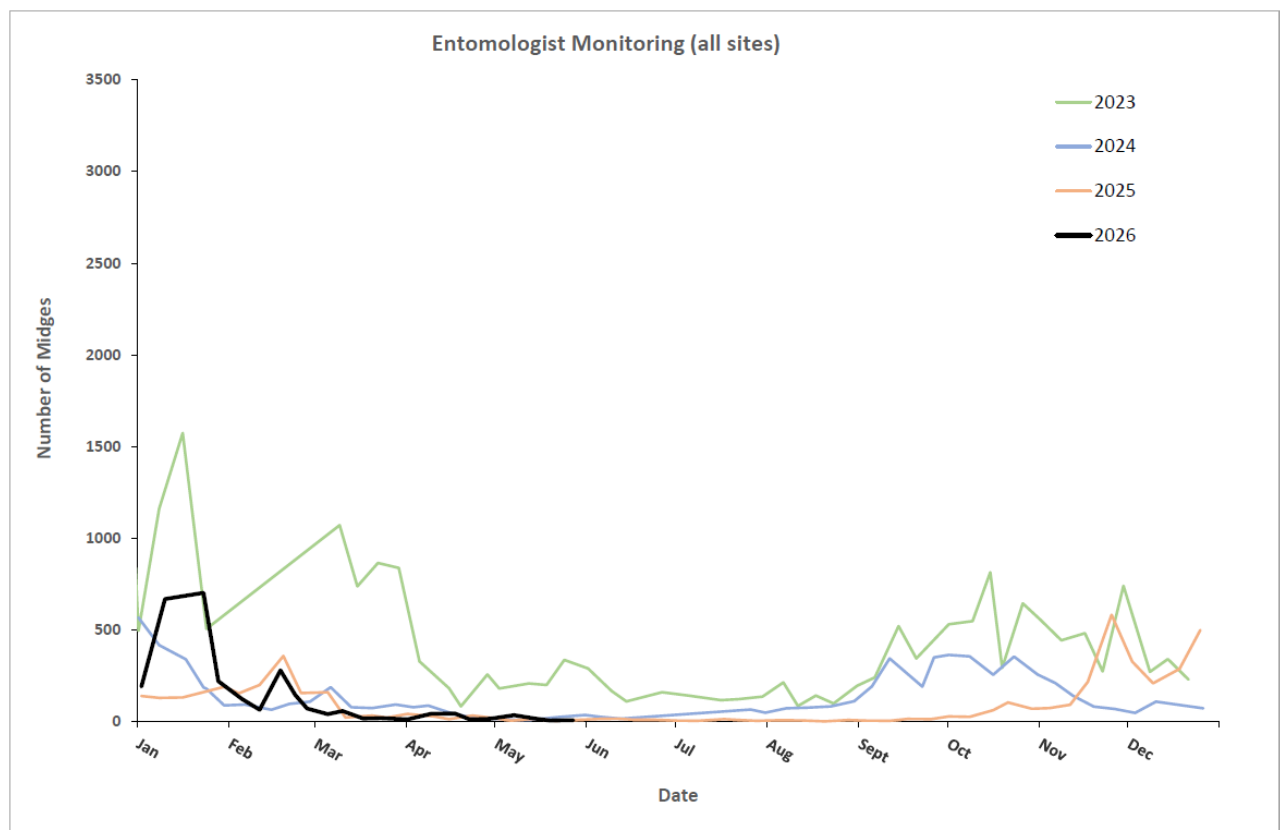
Situation

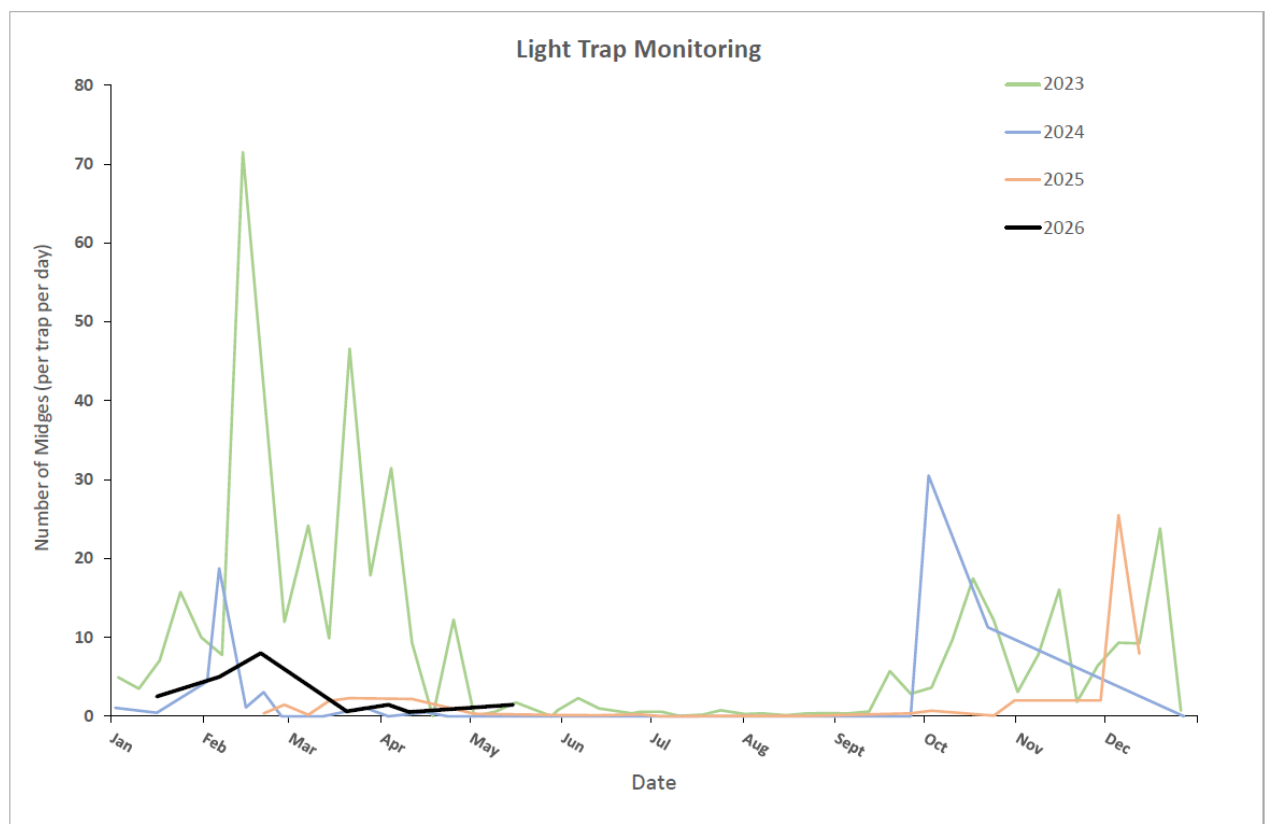
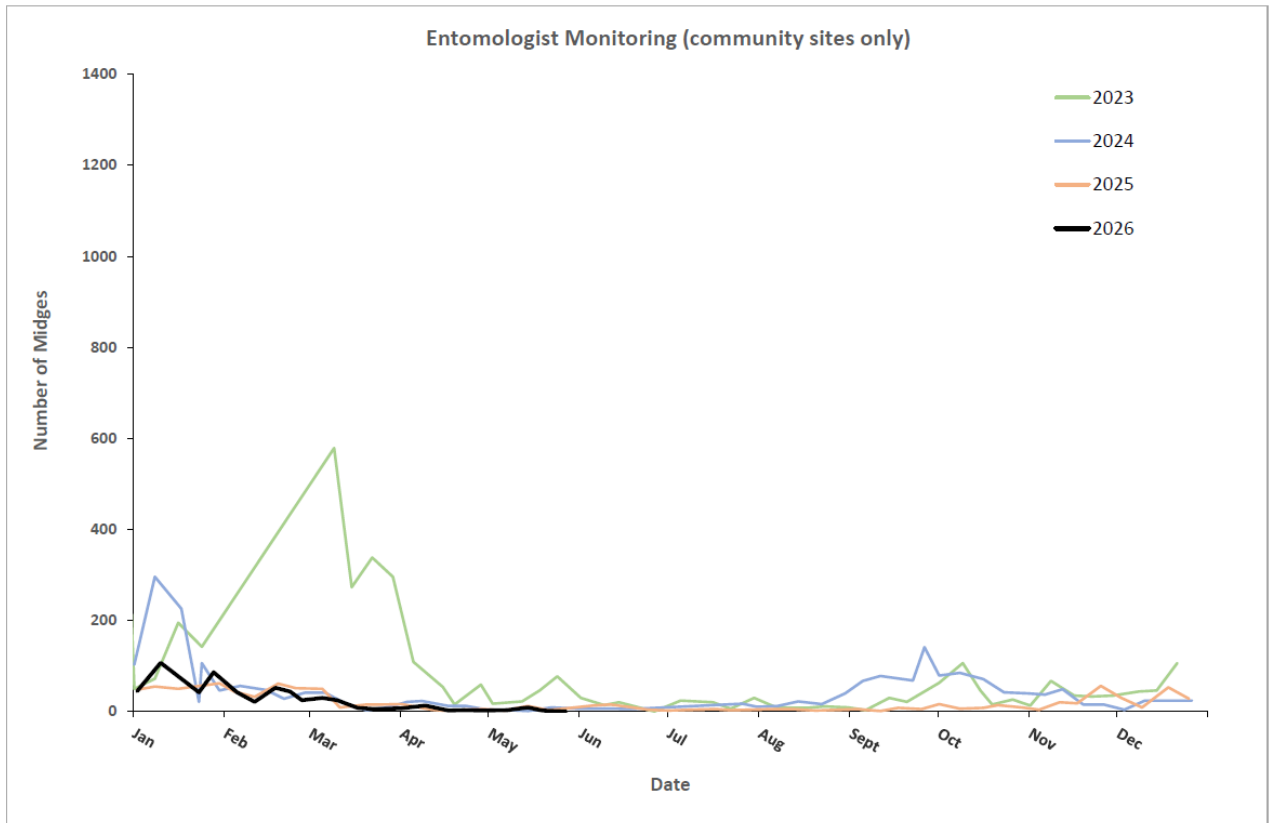
- Midge numbers have remained low throughout the quarter.
- The net monitoring done by an entomologist has been the most reliable source for accurate midge counts over the past few years. The current regimen of midge control appears to be working well.
- The Audit Group has approved for monitoring via emergence traps to be discontinued. This is subject to the current treatment working well as demonstrated by the entomologist monitoring, light trap monitoring and complaint recording. If these monitoring methods demonstrate an ongoing midge nuisance issue in the future, then the Audit Group may request the emergence trap monitoring to be reinstated.
- Light trap monitoring was paused for a period in 2024 while emergence and light traps efficacy was being discussed and was resumed from October 2024.

Treatment Schedule

Chain Dragging:	September – March:	Weekly
	April – August:	Fortnightly (to be increased to weekly if required).
Contact Insecticide:	August – April:	Every 3 weeks (to be increased to fortnightly if required).

Results





5 ODOUR REPORT

Weekly walkover odour offensiveness scores (inside Māngere WWTP)

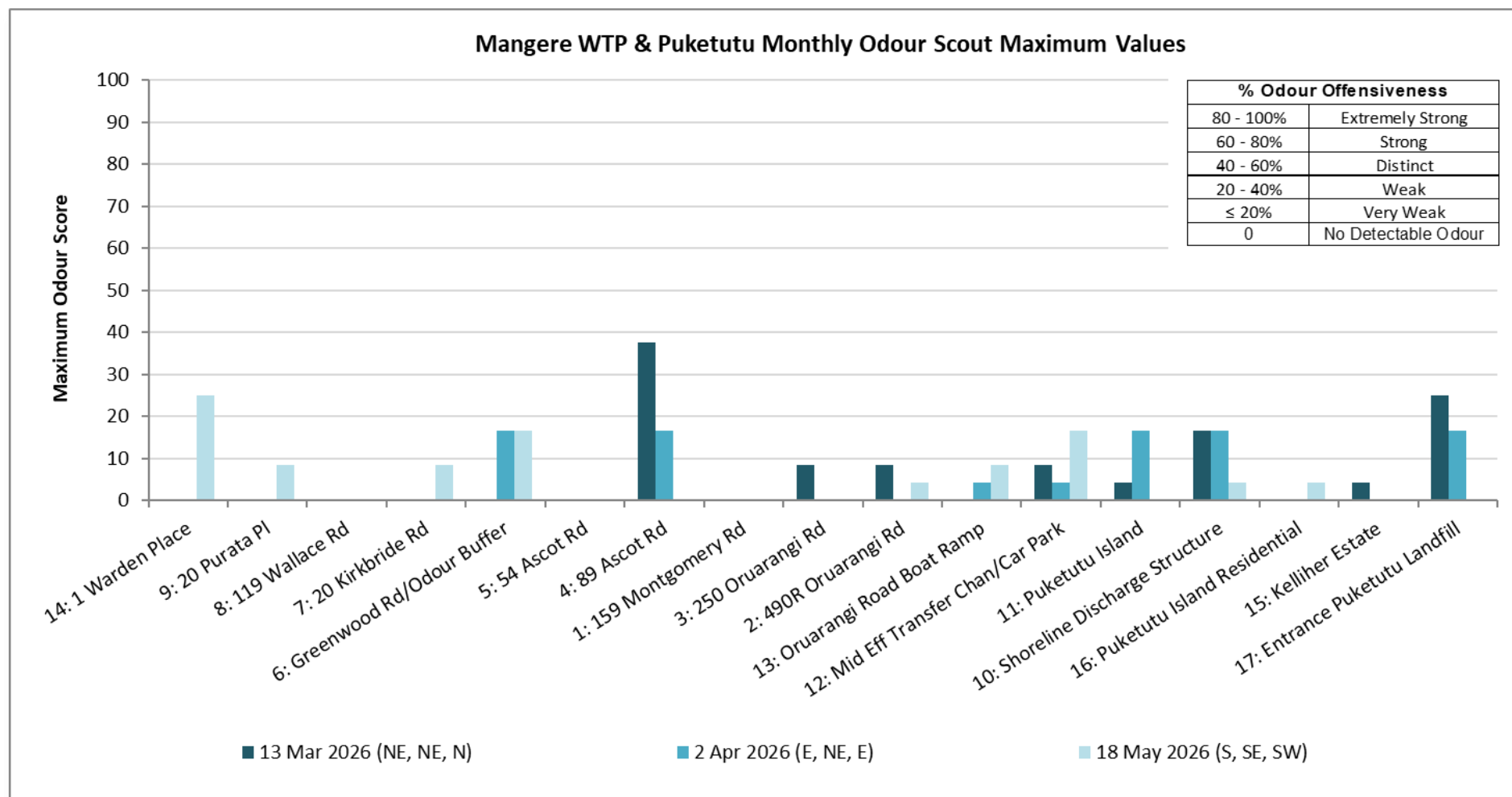
Location	3 Mar 26	10 Mar 26	20 Mar 26	24 Mar 26	30 Mar 26	9 Apr 26	14 Apr 26	22 Apr 26	1 May 26	7 May 26	11 May 26	22 May 26	27 May 26	Avg. quarter
Digester Area	8	8	8	25	17	8	17	17	17	17	17	17	8	13
DAF's/DSFT	0	17	8	17	17	17	17	8	17	8	8	8	17	13
GTB Biofilter	17	8	0	8	8	17	8	8	17	8	0	38	0	10
GBT Biofilter	17	4	0	0	0	17	8	17	N/A	N/A	N/A	N/A	N/A	6
CPB Biofilters	25	17	0	25	25	17	0	25	25	25	25	25	25	18
ASU Biofilters	4	25	17	25	17	17	17	8	8	17	17	17	17	17
BST Biofilters	17	8	17	0	17	17	17	8	0	0	0	0	8	13
GT/GBT Building (old)	17	0	0	0	0	8	8	8	0	8	0	8	0	4
GT/GBT Building (new)	17	0	17	25	0	8	0	25	0	0	25	8	0	11
Centrif. ASU/Biosol. Bldg.	8	8	8	8	17	17	17	25	25	25	25	8	8	11
Blended Sludge Tank	8	0	8	0	17	0	8	8	38	0	8	8	17	6
EF3	4	4	25	4	4	0	4	17	4	17	38	38	17	7
EF4	17	17	17	17	8	0	17	17	4	4	4	8	8	13
EF5	8	17	38	17	4	8	17	17	0	8	8	4	4	15
Splitter Box Biofilter 1	17	17	38	38	17	25	25	38	38	17	25	25	4	25
Splitter Box Biofilter 2	17	17	25	17	17	38	25	38	25	25	25	25	25	22
Splitter Box Biofilter 3	8	N/A	N/A	N/A	17	0	17	N/A	25	25	N/A	38	N/A	4
Splitter Box Biofilter 4	4	8	8	25	0	0	8	4	8	17	8	17	17	8
IPS2	8	25	4	8	8	0	0	0	8	17	8	17	8	9
Primary (PSTs)	38	8	25	17	8	0	25	8	17	38	8	17	8	16
Screens Building	17	8	38	25	38	38	38	38	17	25	38	17	38	27
Tertiary (Filter & UV Plant)	17	4	4	8	8	8	8	8	8	8	8	17	17	8
RC1, RC2, RC4	17	N/A	17	17	0	8	17	17	17	8	17	17	N/A	10
RC3, RC5, RC6	17	17	17	17	8	8	17	8	25	8	17	N/A	17	14
RC7, RC8, RC9	8	25	8	N/A	8	8	8	N/A	N/A	17	N/A	17	N/A	10

Notes:

N/A = Location not accessible due to ongoing construction or maintenance.

Key - Odour offensiveness score		
Extremely Strong	80 - 100	
Strong	60 - 80	
Distinct	40 - 60	
Weak	20 - 40	
Very Weak	≤ 20	

Monthly walkover results (WWTP, Puketutu Island, and surrounding areas)



Notes:

- Three odour runs are completed per monitoring day (am, midday, pm). Maximum offensiveness score is the most distinct odour detected across the three runs.
- Odour scout locations on x-axis listed clockwise from northern-most position, as per Figure 5-1 below.

Monthly walkover map



Figure 5-1: Monthly Community Odour Scouting Locations.

6 CUSTOMER FEEDBACK REPORT

Via	Type	Date	Time	Address	Feedback	Follow up/ Additional Comments
Email from customer	Odour	3-Mar-26	10:26PM	Pikitea Road, Māngere Bridge	<i>"Smell of sewage plant is unbearable at this time from our street. Can this be registered as an official complaint. I have made several complaints in the last 10 days with no real response from watercare"</i>	Customer was called and advised the smell has been on and off for roughly 10 days. Described the odour as pungent/sewer odour, rated a 8 or 9 out of 10. The odour is present in the evenings but not at other times of the day. Weather: Clear, ~15°C, no rain. Wind: Dominant Southerly direction from 8pm (SSW prior), average of 20km/h (moderate breeze) No maintenance occurring at the plant that could have contributed odour, no incidents or other known issues occurred at this time. The southern networks team investigated the network in the area on 6 March but found all manholes etc to be flowing as normal. No odour was detected while the networks team were on site. Additional odour scouting has been implemented in the community to further investigate/validate any odours present. To date, no odours have been identified during community scouting. Nonetheless, with the address being roughly north of the plant, the plant cannot be excluded as a potential source.
Email from customer	Odour	9-Mar-26	11:00PM	Pikitea Road, Māngere Bridge	<i>"FYI, last night at 11 pm, the smell once again was very strong".</i>	No maintenance occurring at the plant that could have contributed odour, no incidents or other known issues occurred at this time. Weather: Clear, ~20°C, no rain. Wind: Dominant SSW wind direction from ~2pm through the rest of the day. Speed of 10-20km/h (gentle to moderate breeze) Additional odour scouting has been implemented in the community to further investigate/validate any odours present. To date, no odours have been identified during community scouting. Nonetheless, with the address being roughly north of the plant, the plant cannot be excluded as a potential source.

Email from customer	Odour	16-Mar-26	10:47PM	Pikitea Road, Māngere Bridge	<i>"Today 10.47 pm can smell though our bathroom window. Not nice where you can't leave you window open for fresh air.</i> <i>Went outside and a very smell once again</i> <i>Hope these times help your investigation"</i>	No maintenance occurring at the plant that could have contributed odour, no incidents or other known issues occurred at this time. Weather: Clear, ~17 °C, no rain. Wind: Dominant SSW wind direction from ~3pm through to 9pm, then S the rest of the evening. Speed of 15-20km/h in the hours leading up to the disturbance (gentle to moderate breeze) Additional odour scouting has been implemented in the community to further investigate/validate any odours present. To date, no odours have been identified during community scouting. Nonetheless, with the address being roughly north of the plant, the plant cannot be excluded as a potential source.
Watercare Website	Odour	21-Mar-26	2:54PM	Mountain Road, Māngere Bridge	Complaint via website chatbot, not sent through to EnvCare - Odour has <i>"been a problem for a couple of months now, especially the last few days. A few years ago it was a real problem and we complained and it improved. These last years it hasnt been so bad. But now lately the unpleasant sulphur smell has been getting worse. The smell gets into the house and lingers."</i>	Complaint logged via website chatbot, faults team logged as a network complaint. Network team inspected the surrounding pipes/manholes and did not observe any issues and closed out the complaint. Complaint was not forwarded to the plant or EnvCare. Only found when reviewing faults database. Wind in the hours preceding the complaint on 21/03 were predominantly N-NNW-NNE, gentle-moderate breeze. This means address was upwind of plant, and the plant could not have been the source at that time. However, the complaint advises odour has been particularly bad over the preceding days, during which time the predominant wind direction was SSW, meaning the address would be downwind of the plant during this time. Additional odour scouting has been implemented in the community to further investigate/validate any odours present. To date, no odours have been identified during community scouting

Email from customer	Odour	27-May-26	8:08AM	Pikitea Road, Māngere Bridge	Email from resident at ~8am to advise: <i>"Today 8 am 27 May, it is extremely smelly at my address. Allot more than usual."</i> Follow up email around 8pm: <i>"Today, it was that bad, you could smell it inside the house with the front door only being open for a few minutes"</i>	EnvCare team member headed out to the address to undertake odour scouting, onsite by 8:45am - no odour could be detected at the address or in the surrounding community. Plant advised RC7 is currently OOS for overhaul, but no odour has been detected coming from it. No odour detected around the site this morning. Wind in the morning preceding the complaint was variable but dominant SW-SSW, low speeds (<6km/h). By ~2pm through to 8pm, wind had switched to predominantly NE-NW; therefore, the address would not be downwind of the plant in the afternoon.
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Figure 6-1: Locations of the odour complaints received this quarter (four of the five complaints this quarter arose from the same residence).

7 PUKETUTU ISLAND REPORT

Placement of biosolids

31,248 tonnes of biosolids material was placed at the Puketutu Biosolids Facility during this quarter. Since the commencement of operations on 1 December 2014, Watercare has placed 2,440,300 tonnes of combined biosolids and cover/construction material. The total storage capacity is estimated at approximately four million tonnes; therefore, the facility is currently at 60% of capacity.

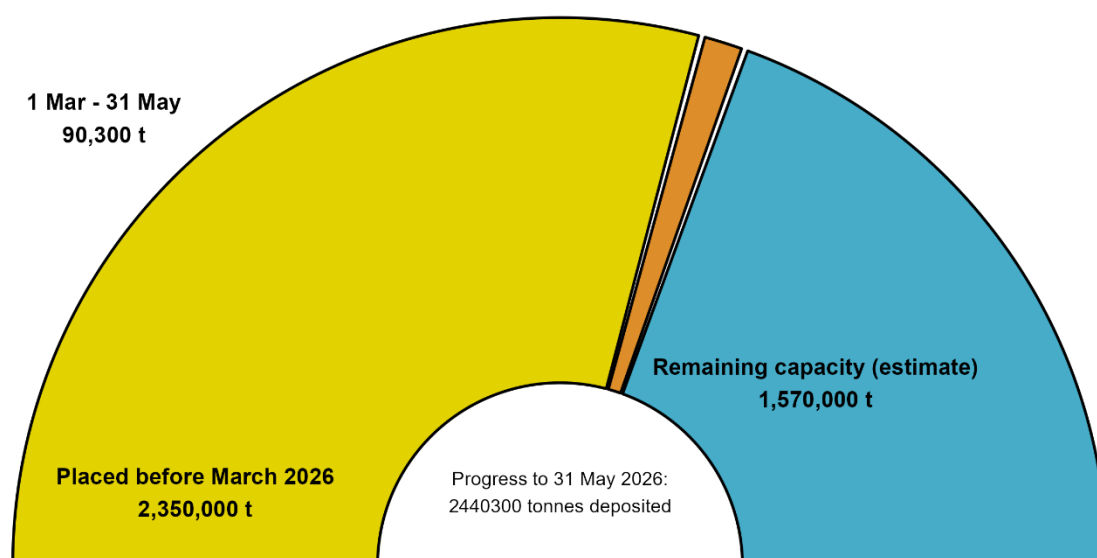


Figure 7-1: Material placement (biosolids and cover/construction) at Puketutu Biosolids Facility to date.

Biosolids truck movements were similar to the previous quarter. Currently, biosolids are deposited within phases 4 and 5, which requires the construction of multiple smaller cells in certain areas due to cell alignment. The smaller cells result in an increase in the number of cell walls, and subsequently, more construction materials required to be brought to the island compared to earlier phases.

Other matters

- No complaints were received at the Puketutu Biosolids Facility during the monitoring period.

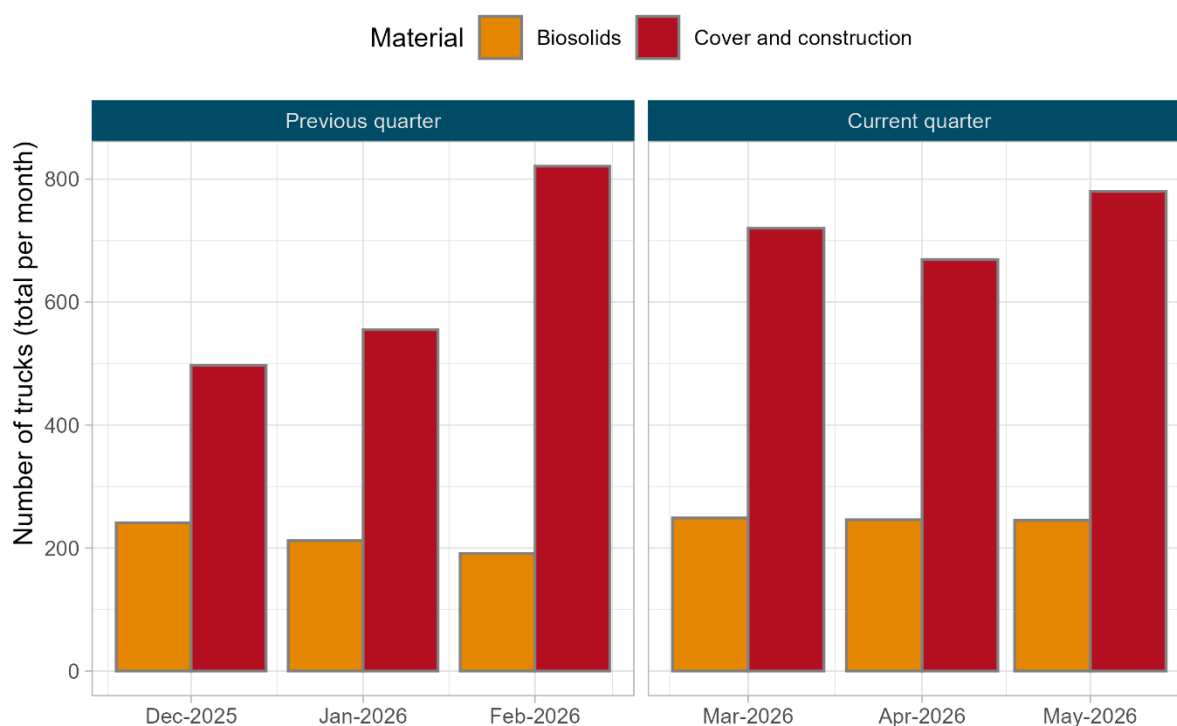


Figure 7-2: Monthly truck deliveries to Puketutu Biosolids Facility

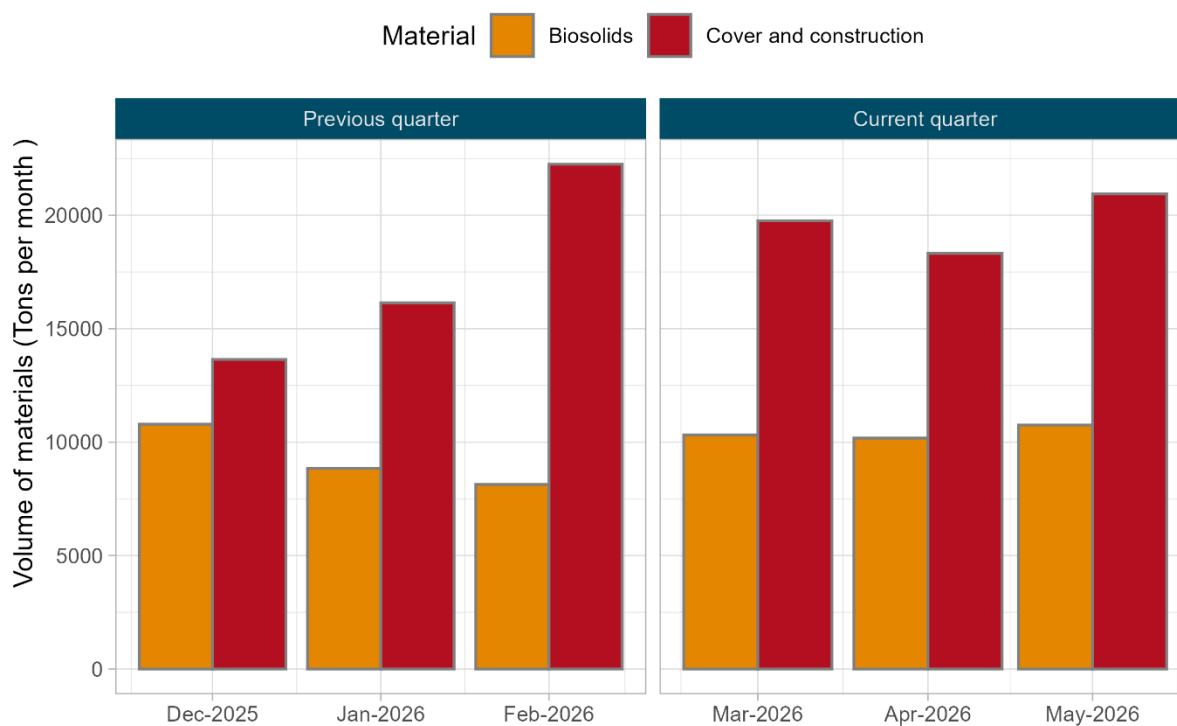


Figure 7-3: Monthly tonnages received at Puketutu Biosolids Facility