

Report Period 

1/12/2025

12/01/2026

**Monitoring Summary
for Hodgson Quarries and Plant Pty Ltd
Roberts Road Sand Quarry, Maroota,
NSW**

Site Monitoring Locations



Groundwater Levels

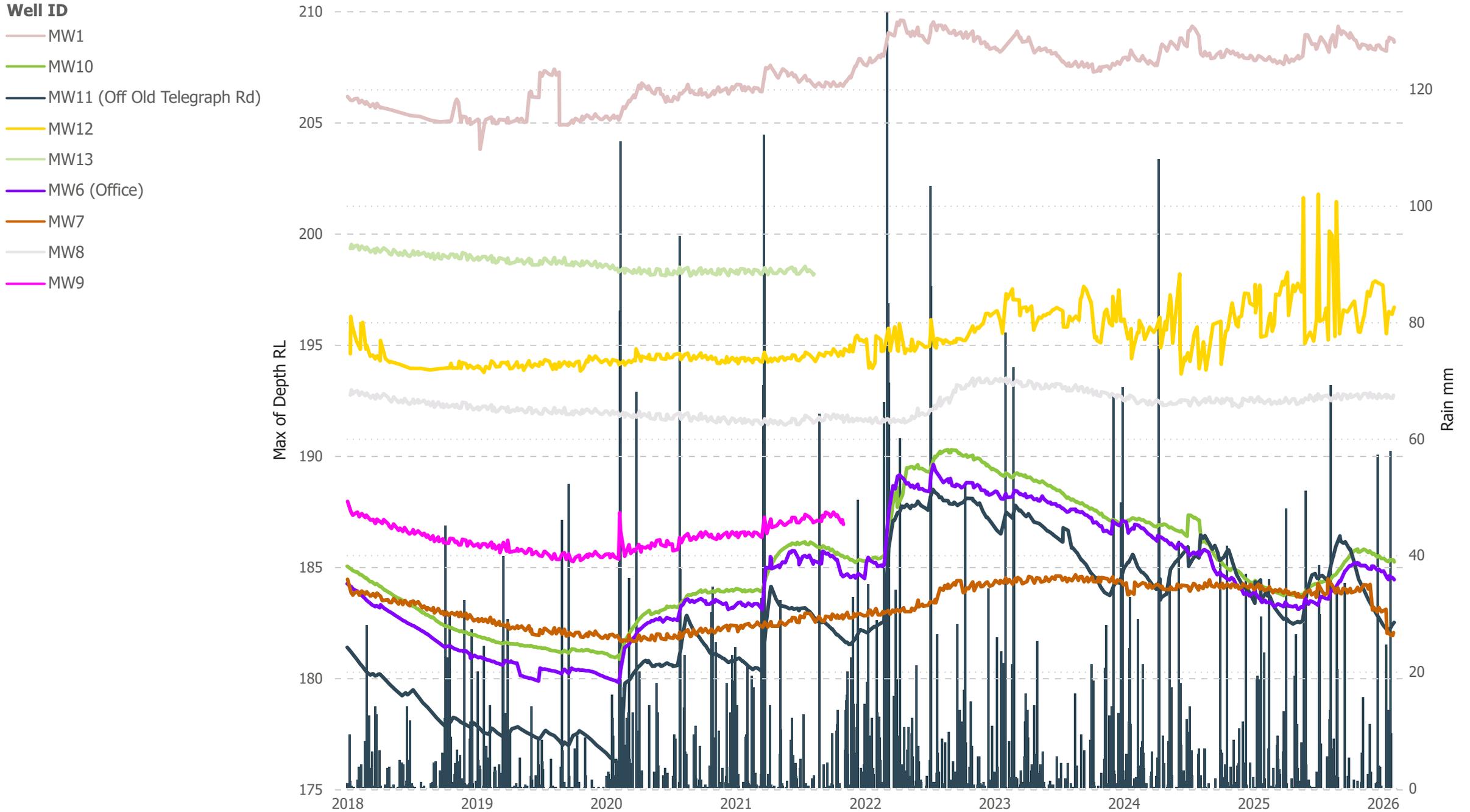
Groundwater levels are currently monitored in nine boreholes located on the site. Groundwater levels are manually measured for depth each month using a groundwater dipper. Data is downloaded from groundwater loggers where present. MW1 logger was installed prior to 2015; the remaining loggers were installed in 2017.

Graph 1 displays the depths as of January 2017. Graph 2 shows depths in the past month. Following anomalous readings from the MW5 logger, the bore was investigated and discovered to have collapsed. The logger was relocated to a functioning bore and the bore abandoned and replaced by nearby MW8.

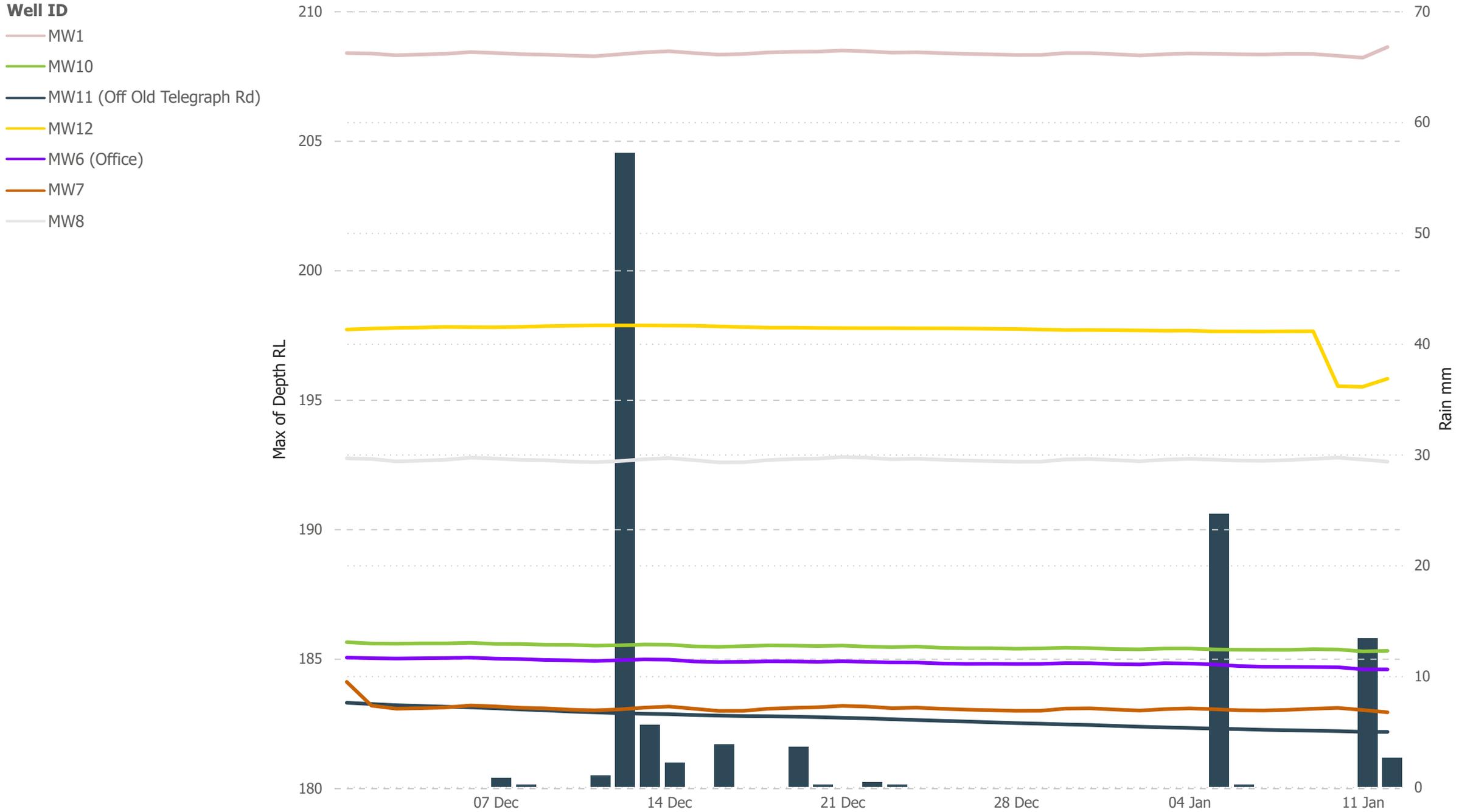
MW1 and MW12 were taken away for repairs during April 2018 and returned in October 2018, hence the gap in reporting on the following graphs.

Due to rain gauge malfunctions, rainfall was not recorded in 2020 until a new weather station was installed onsite 29th May 2020. Where available, daily rainfall received in the interim has been sourced from the Bureau of Meteorology.

Graph 1: All Groundwater Depths with Rainfall from 1/1/2017

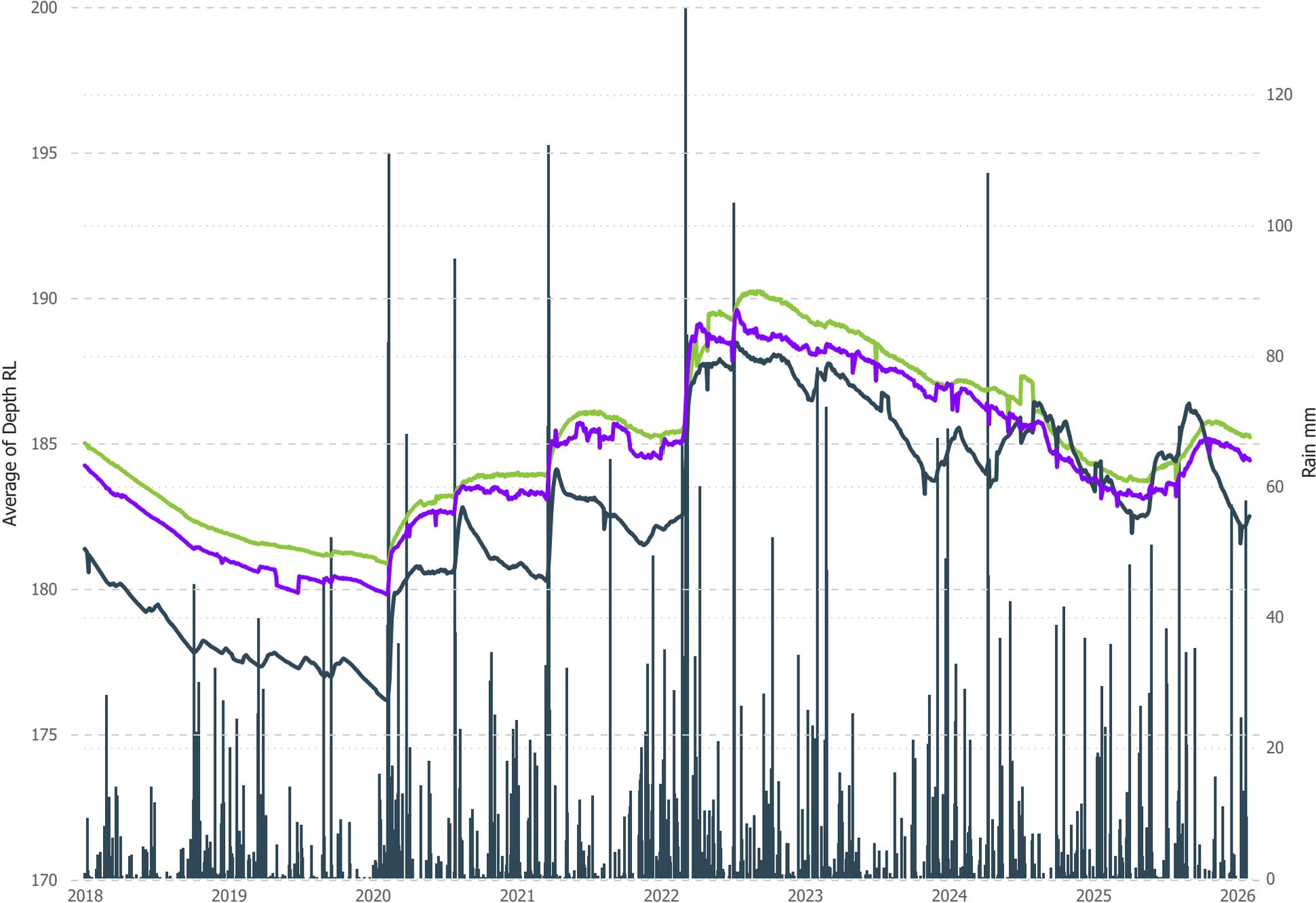


Graph 2: All Groundwater Depths with Rainfall this period

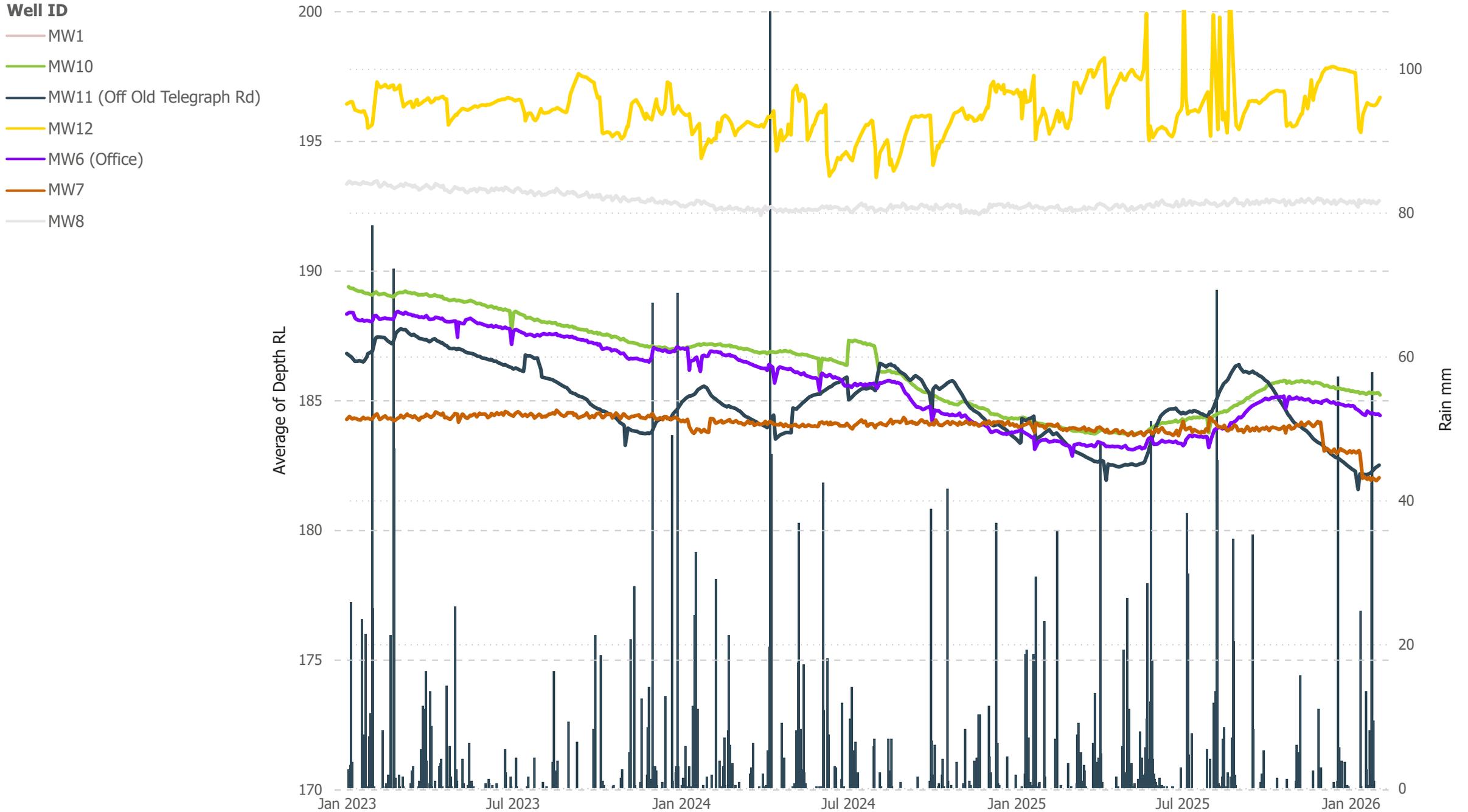


Graph 3: All Groundwater Depths with Rainfall in Maroota Sand

- Well ID**
- MW10
 - MW11 (Off Old Telegraph Rd)
 - MW6 (Office)

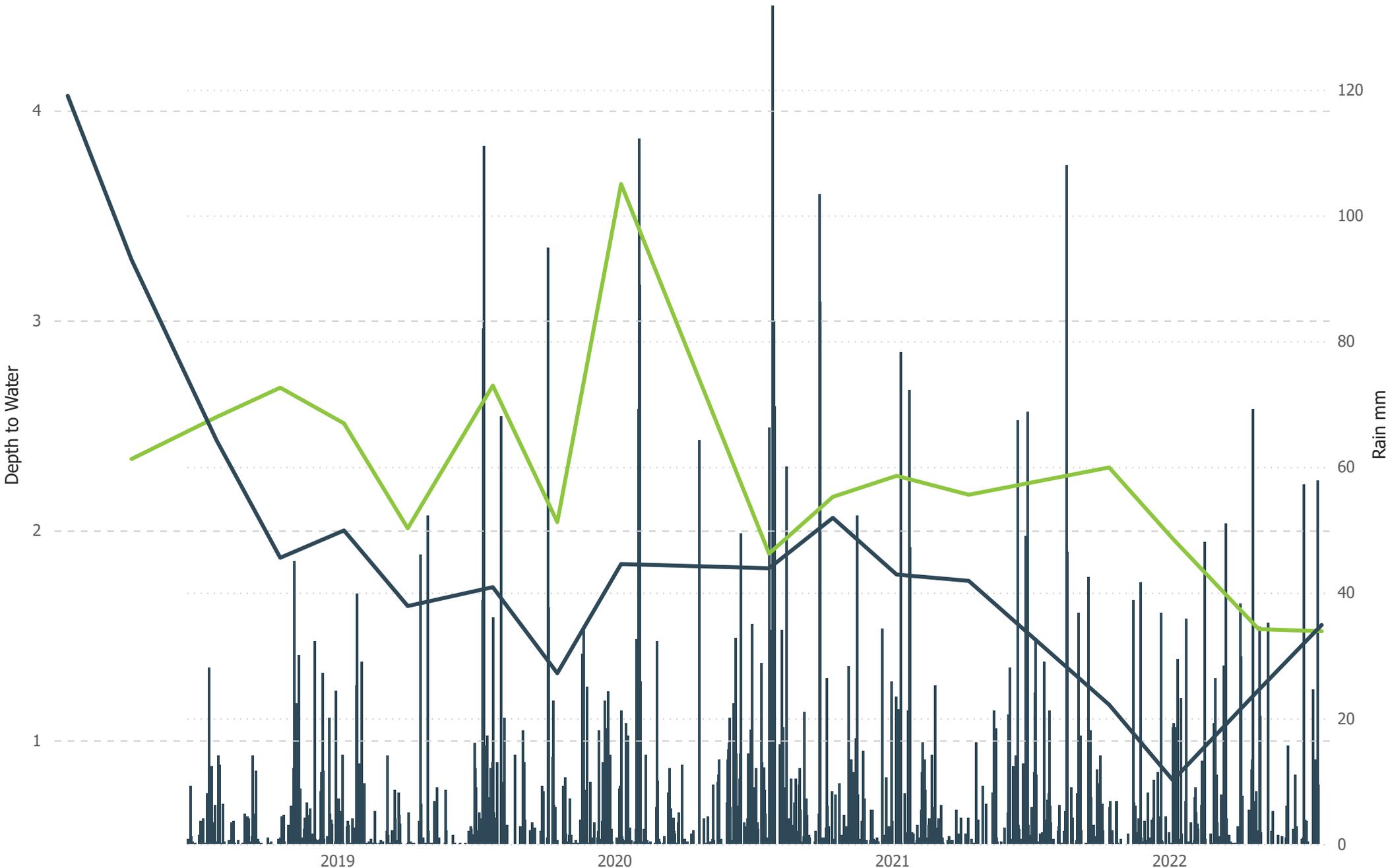


Graph 4: All Groundwater Depths with Rainfall in Hawkesbury Sandstone



Graph 5: Surface Water Depths with Rainfall

Sample
— Dam 1 - Process
— Dam 2 - Tailings



Weather Station Monitoring

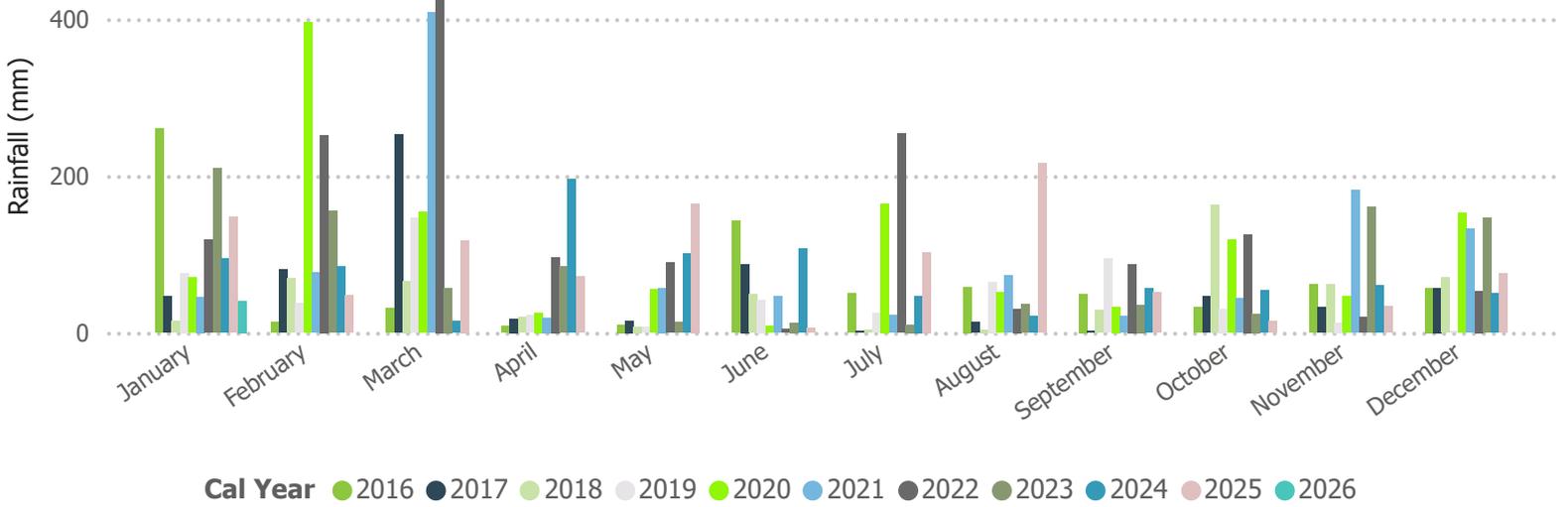
Due to gauge malfunctions, rainfall was not recorded in 2020 until a new weather station was installed onsite 29th May 2020. Where available, daily rainfall received in the interim was been sourced from the Bureau of Meteorology. Temperature monitoring during that period also shows gaps in the data. For modelling and reporting, Bureau of Meteorology averages were used

Weather Trends

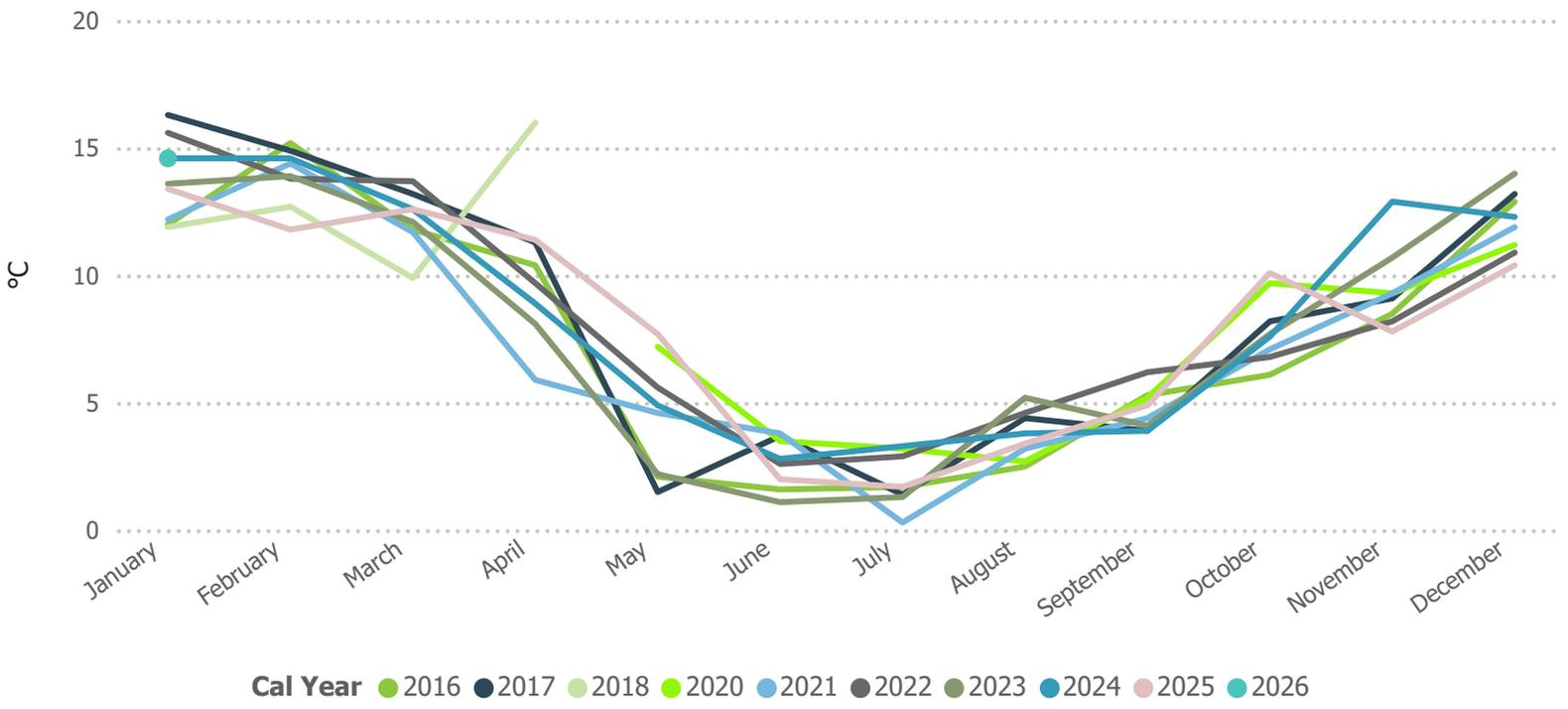
1/01/2016

12/01/2026

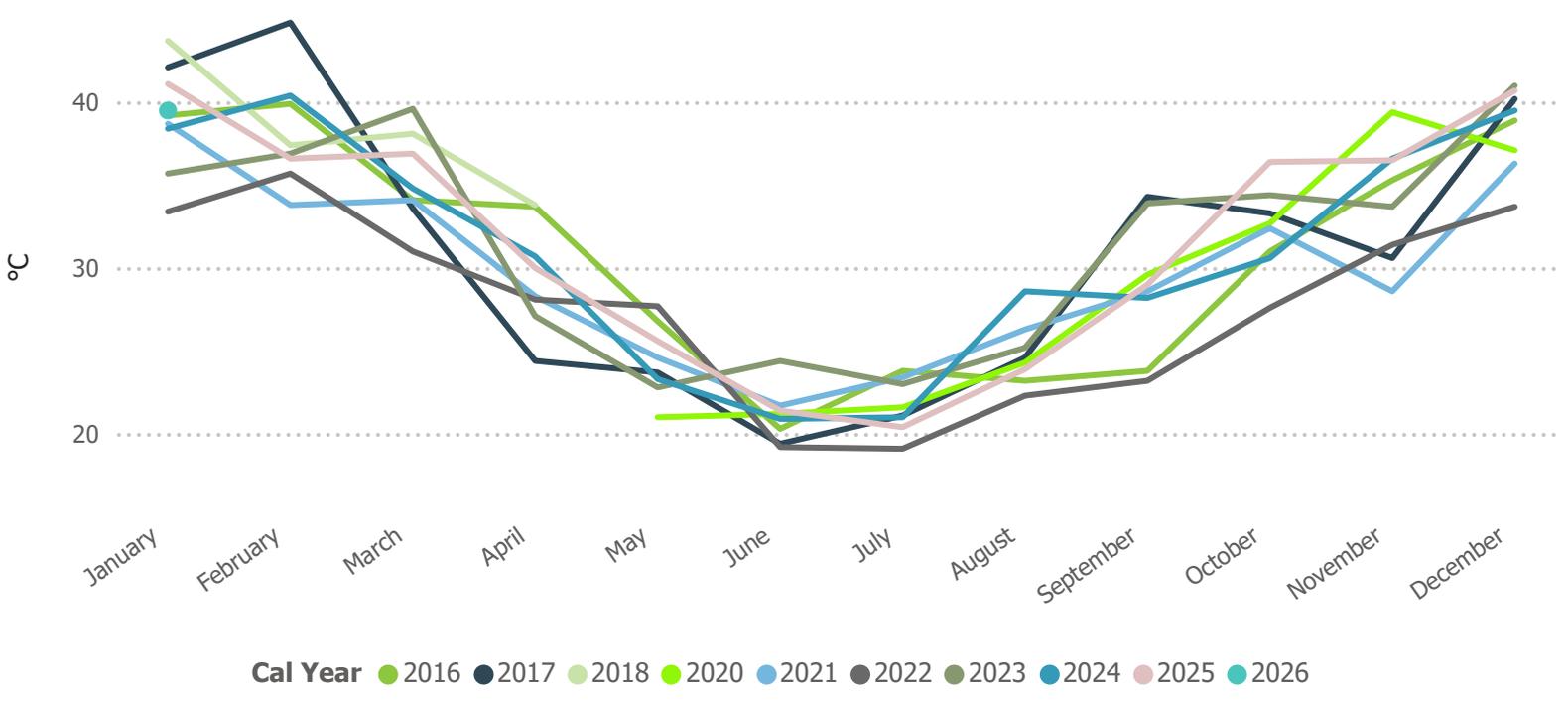
Precipitation



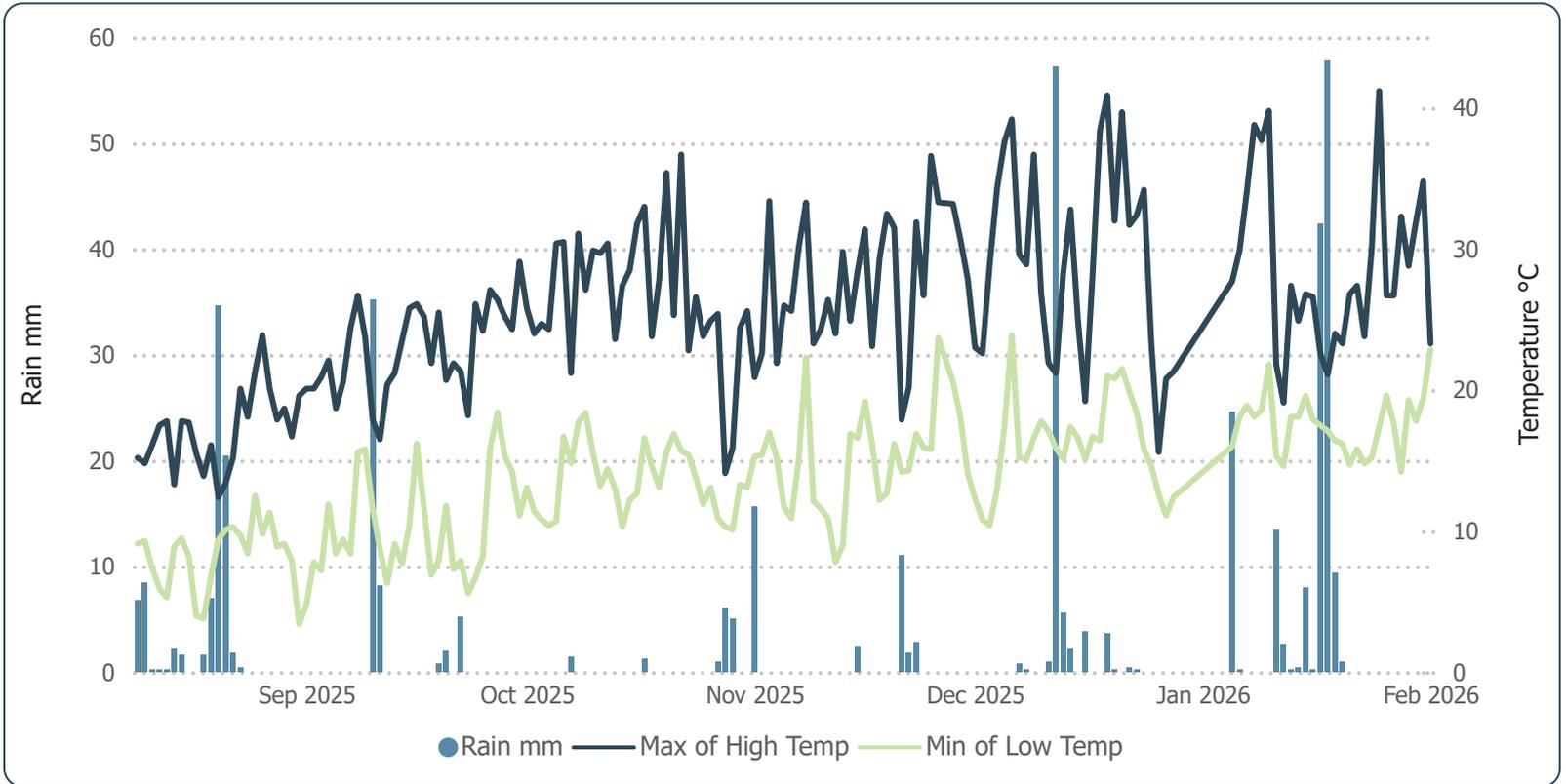
Minimum Temperature



Maximum Temperature



Weather Detail for last 6 months



Precipitation mm

Cal Year	January	February	August	September	October	November	December	Total
2025			85.4	51.4	14.6	33.6	75.2	260.2
2026	160.2	0.0						160.2

Minimum Temperature °C

Cal Year	January	February	August	September	October	November	December	Total
2025			3.4	4.9	10.1	7.8	10.4	3.4
2026	14.3	23.0						14.3

Average Temperature °C

Cal Year	January	February	August	September	October	November	December	Total
2025			12.2	16.3	19.5	20.3	21.9	18.3
2026	22.3	23.0						22.3

Maximum Temperature °C

Cal Year	January	February	August	September	October	November	December	Total
2025			23.9	29.0	36.4	36.5	40.7	40.7
2026	41.2	23.0						41.2

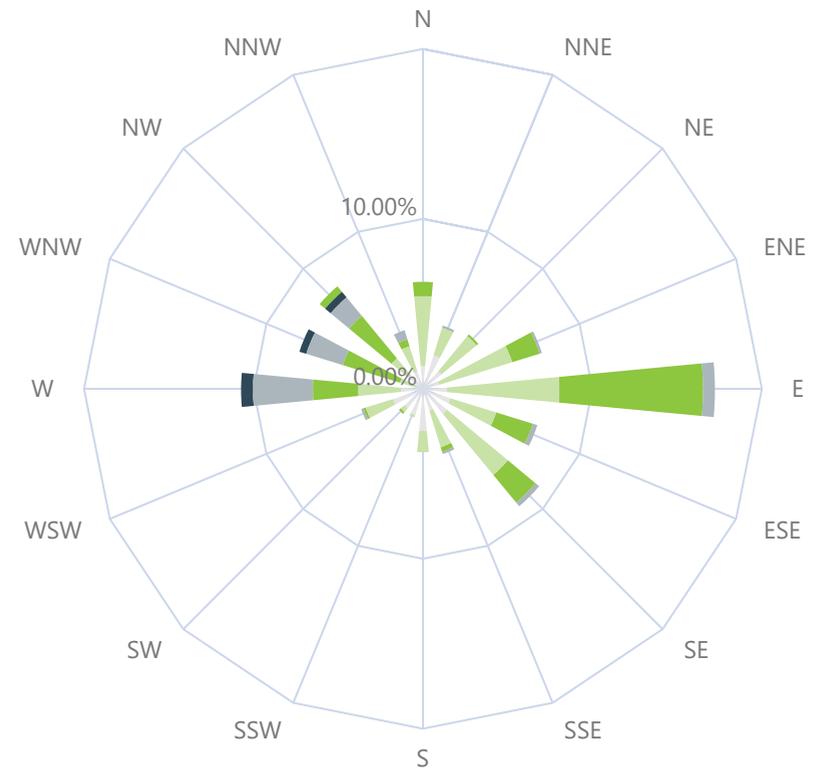
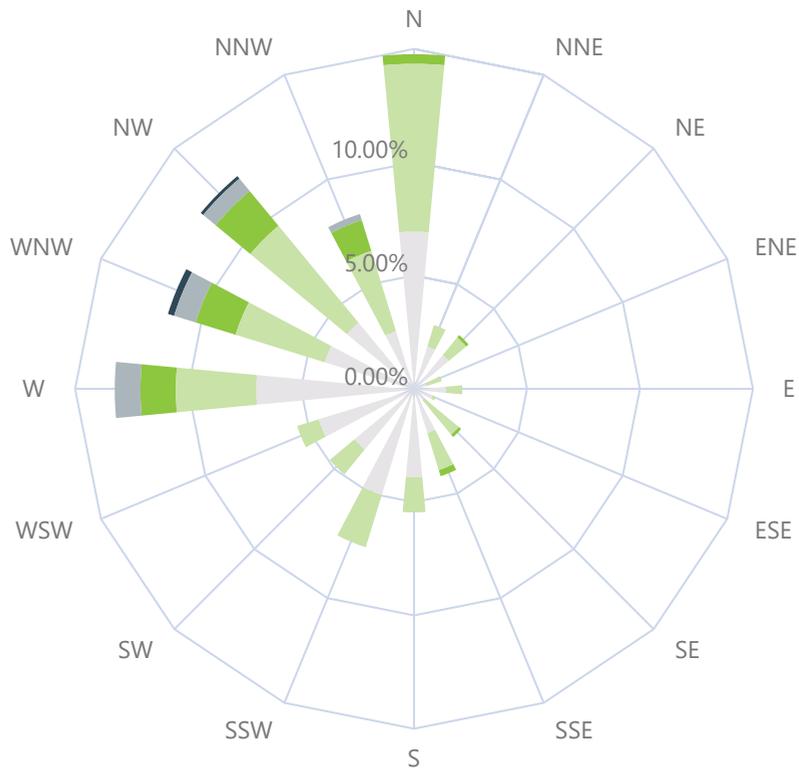
Wind Rose for Last 12 Months

9 am

3 pm

Wind Speed Groups

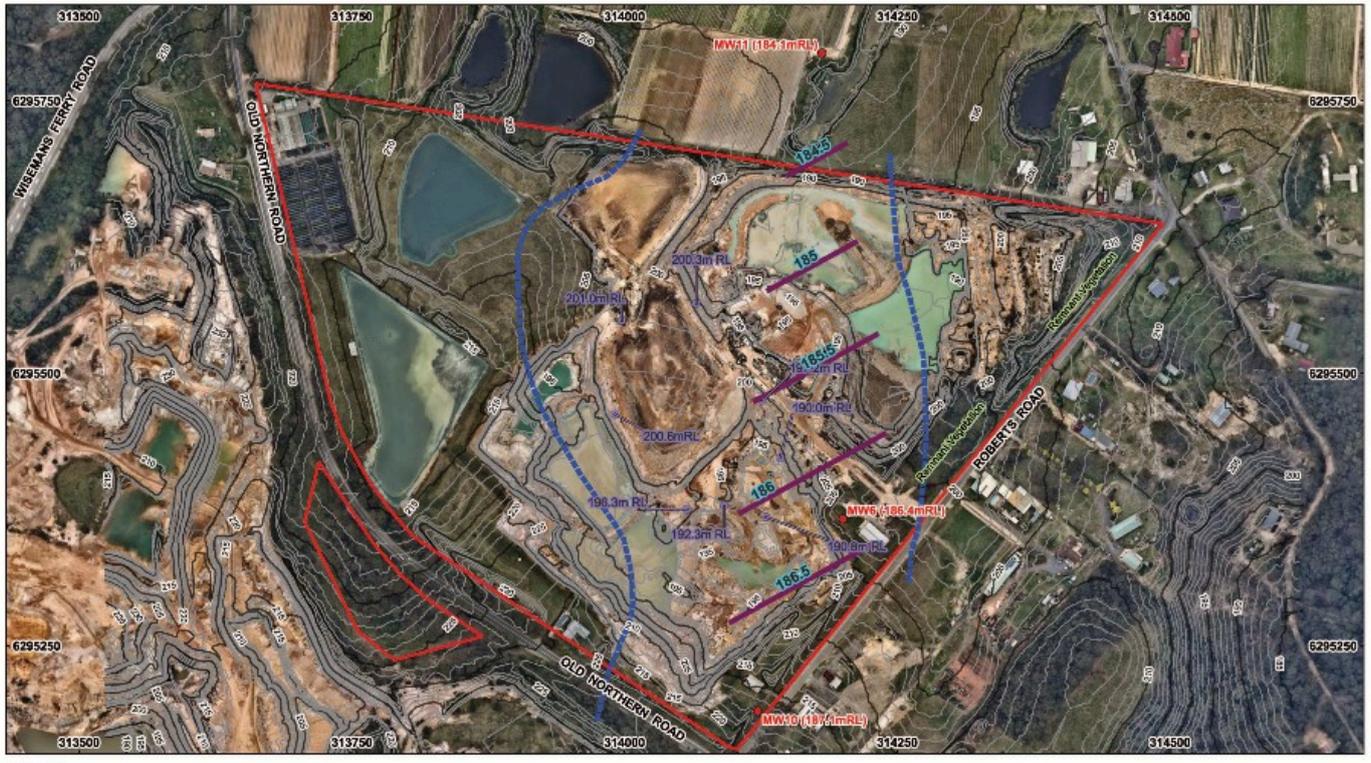
> 0-5 km/h > 5-10 km/h > 10-15 km/h > 15-20 km/h > 20-25 Km/h > 25-30 Km/h > 30+ Km/h



Plan of: Annual Review & Compliance Report 2023 for Roberts Road Maroota Sand Quarry - Wet Weather High Groundwater Level Maroota Sands (2022)	Location: Maroota Quarry, Roberts Road, Maroota, NSW	Source: reemmap - Inmap Data 23/10/2024 Zone MGA 56	Plan By: TO
Figure: SIX	Council: Hills Shire Council	Survey: FIVE Quarry Contours 24/03/2022 NSW Spatial Services ETL/SGDEM Surrounding Contours Date: May 2017, Spot Heights by Ross Robinson Consulting March 2023	Project Manager: TO
Version/Date: V2 31/03/2023	Tenure: Not Applicable	Projection: GDA2020MGA Zone 56 EPSG:7096	
Our Ref: 12700_HMA_AR2024-2025_C006_V2_F6	Client: Hodgson Quarries & Plant Pty Ltd	Contour Interval: 1m	



This figure may be based on third party data which has not been verified by vgt and may not be to scale. Unless otherwise stated, the figure is intended as a guide only and does not warrant the accuracy.



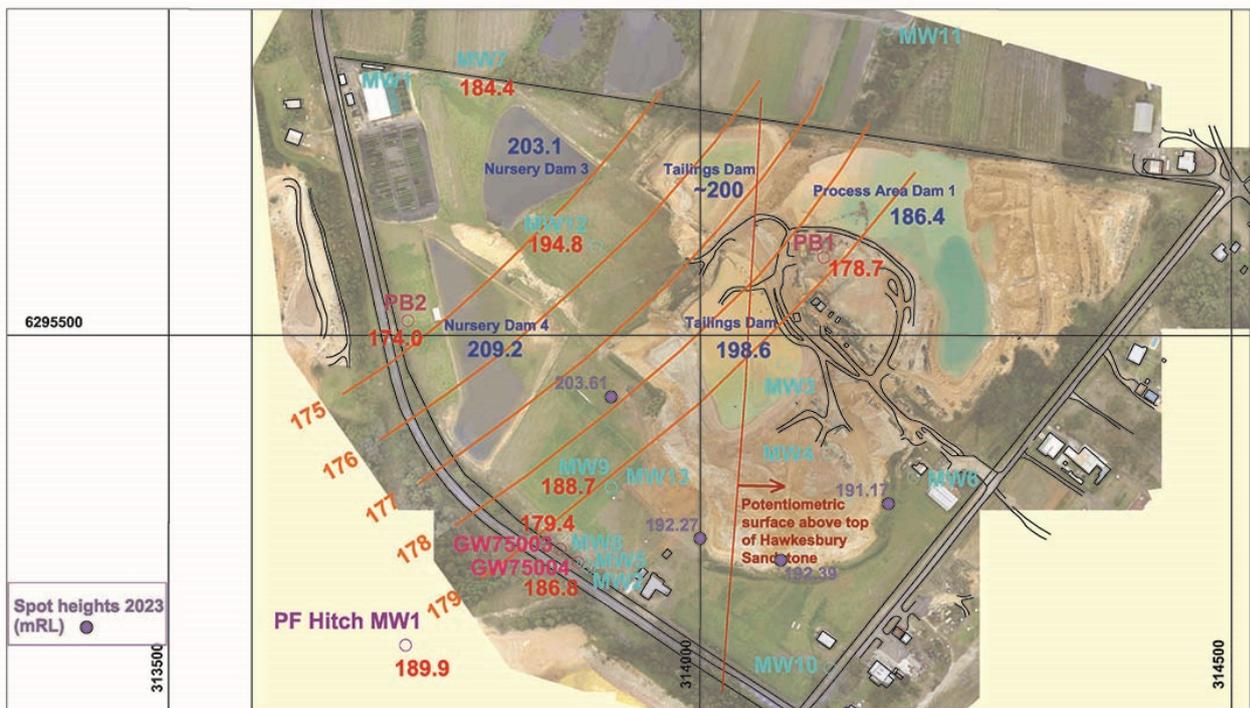
Property Boundary	Contours of Wet Weather High GW Level (mRL)	Edge of Saturated Maroota Sands
Dam Areas	Groundwater Monitoring Well Location	2024-2025 Survey Point

VGT Environmental Compliance Solutions Pty Ltd 4/30 Glenwood Drive, Thornton NSW 2322 PO Box 2336, Greenhills NSW 2023 ph: (02) 4028 6412 email: mail@vgt.com.au www.vgt.com.au ABN: 26 621 943 888

Plan of: Annual Review & Compliance Report 2022 for Roberts Road Maroota Sand Quarry - Wet Weather High Groundwater Level Hawkesbury Sandstone (Feb 2018)	Location: Maroota Quarry, Roberts Road, Maroota, NSW	Source: Dundon Consulting Pty Ltd Figure 16 Dwg No. 06-0318-021d 08/03/2018	Our Ref: 12498_HMA_AR2022_C001_V0_F5B.cdr
Figure: FIVE-B	Council: Hills Shire Council	Survey: Dundon Consulting Pty Ltd 08/03/2018	Plan By: LT/JDISK
Sheet: 1 of 1	Tenures: N/A	Projection: MGA	Project Manager: LT
Version/Date: V0 15/03/2023	Client: Hodgson Quarries & Plant Pty Ltd	Contour Interval: 1m	Office: Thornton



This figure may be based on third party data which has not been verified by vgt and may not be to scale. Unless otherwise stated, the figure is intended as a guide only and does not warrant the accuracy.



LEGEND:

- Hodgson monitoring bore
- Hodgson production bore
- Hawkesbury Sandstone water level
- Contours of wet weather high GW level
- Potentiometric surface above top of HS

DATE: 8 March 2018	SCALE:
PROJECT NO: 06-0318	AUTHOR: PD
DRAWING NO: 06-0318-021d	REVISION: D

Hodgson Quarry and Plant Pty Ltd

ROBERTS ROAD MAROOTA SAND QUARRY
Wet Weather High Groundwater Level
Hawkesbury Sandstone (February 2018)

Dundon Consulting Pty Ltd

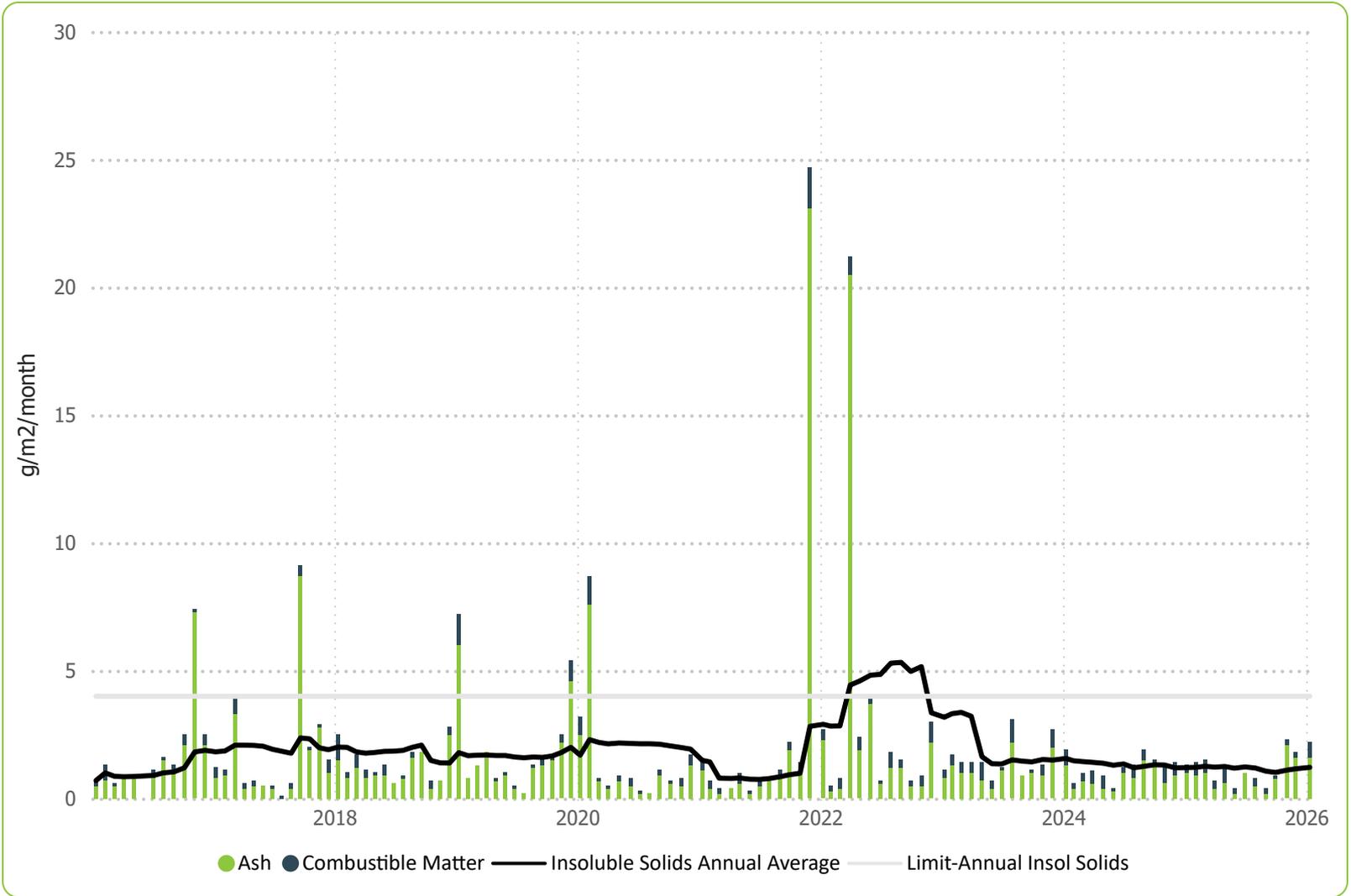
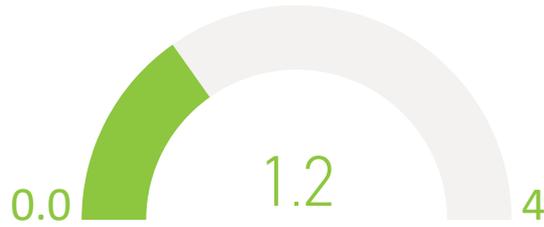
Figure 16

Depositional Dust and Particulate Matter Monitoring

Depositional Dusts last 12 months

D1 Gate ▼

**Insoluble Solids
Annual Average
g/m²/month**



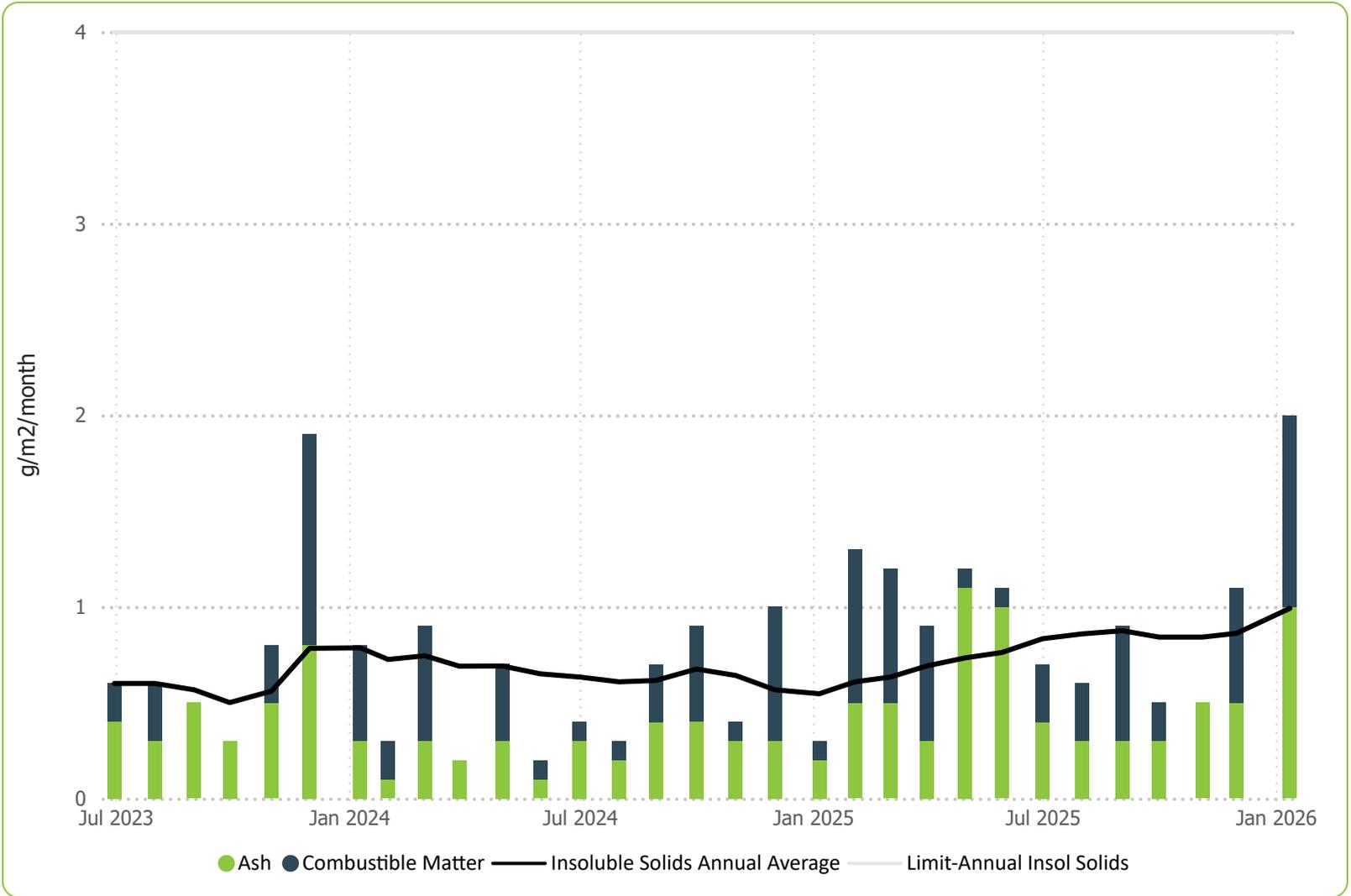
Date On	Comments	Date Sampled	Days On	Insoluble Solids	Ash	Combustible Matter	Calculated Rain
6/01/25	Bottle full of water	3/2/25	28	1.4	0.9	0.5	114
3/02/25		3/3/25	28	1.5	1.0	0.5	48
3/03/25		1/4/25	29	0.7	0.4	0.3	115
1/04/25		1/5/25	30	1.2	0.6	0.6	80
1/05/25		30/5/25	28	0.4	0.2	0.2	115
30/05/25		1/7/25	32	1.0	1.0	0.0	22
1/07/25		1/8/25	31	0.8	0.5	0.3	100
1/08/25		2/9/25	32	0.4	0.2	0.2	115
2/09/25		1/10/25	29	0.9	0.8	0.1	49
1/10/25		4/11/25	28	2.3	2.1	0.2	30
4/11/25		1/12/25	27	1.8	1.6	0.2	23
1/12/25		12/1/26	28	2.2	1.6	0.6	115

Depositional Dusts last 12 months

D2a North East Corner



**Insoluble Solids
Annual Average
g/m²/month**



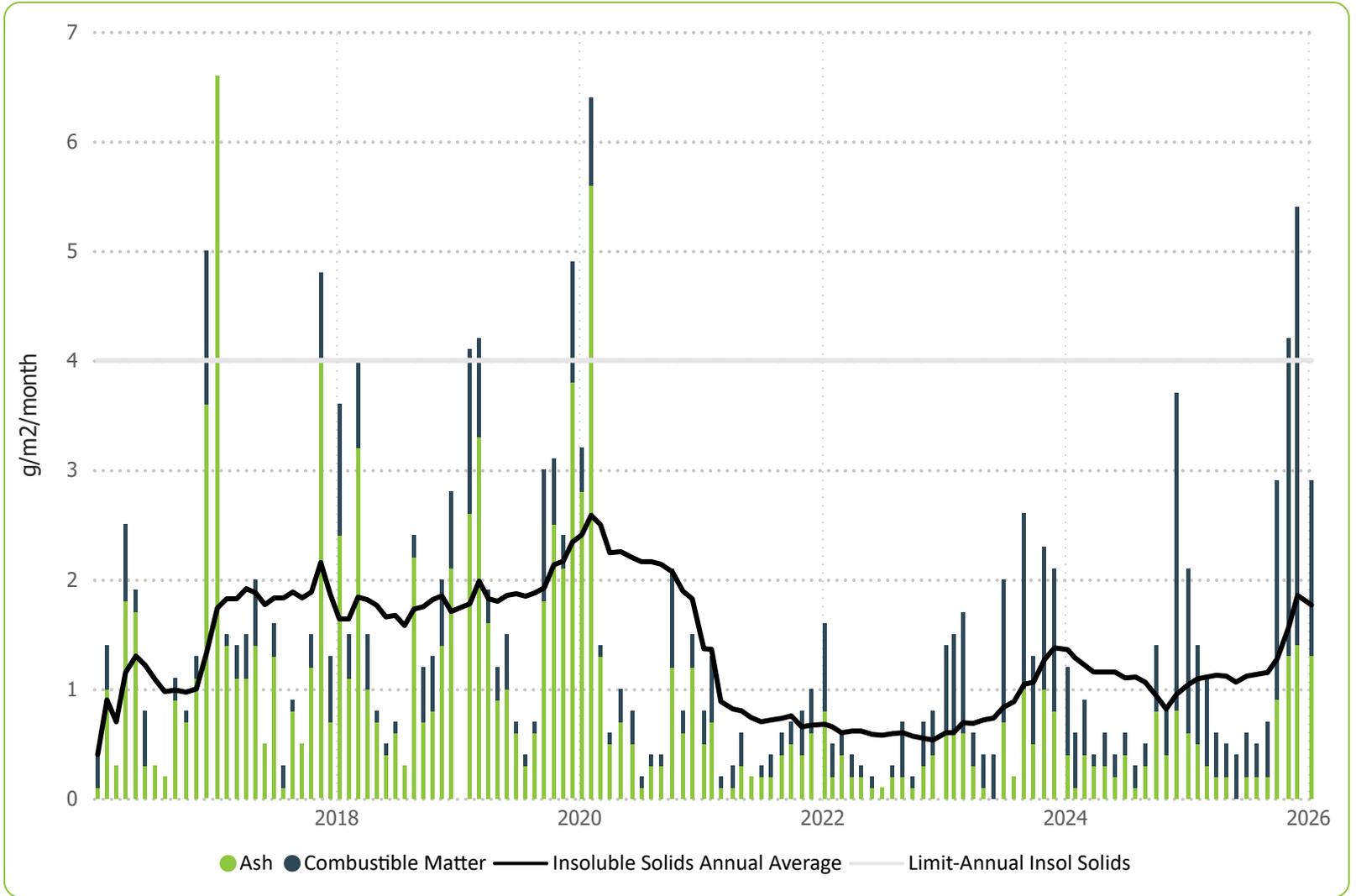
Date On	Comments	Date Sampled	Days On	Insoluble Solids	Ash	Combustible Matter	Calculated Rain
2/12/24		3/2/25	28	1.3	0.5	0.8	114
6/01/25	Bottle full of water	3/3/25	28	1.2	0.5	0.7	40
3/02/25		1/4/25	29	0.9	0.3	0.6	107
3/03/25		1/5/25	30	1.2	1.1	0.1	78
1/04/25		30/5/25	28	1.1	1.0	0.1	115
1/05/25		1/7/25	32	0.7	0.4	0.3	14
30/05/25		1/8/25	31	0.6	0.3	0.3	86
1/07/25		2/9/25	32	0.9	0.3	0.6	114
1/08/25		1/10/25	29	0.5	0.3	0.2	42
2/09/25		4/11/25	28	0.4	0.5	0.0	26
1/10/25		1/12/25	27	1.1	0.5	0.6	11
4/11/25		12/1/26	28	2.0	1.0	1.0	115
1/12/25							

Depositional Dusts last 12 months

D3A Bundwall



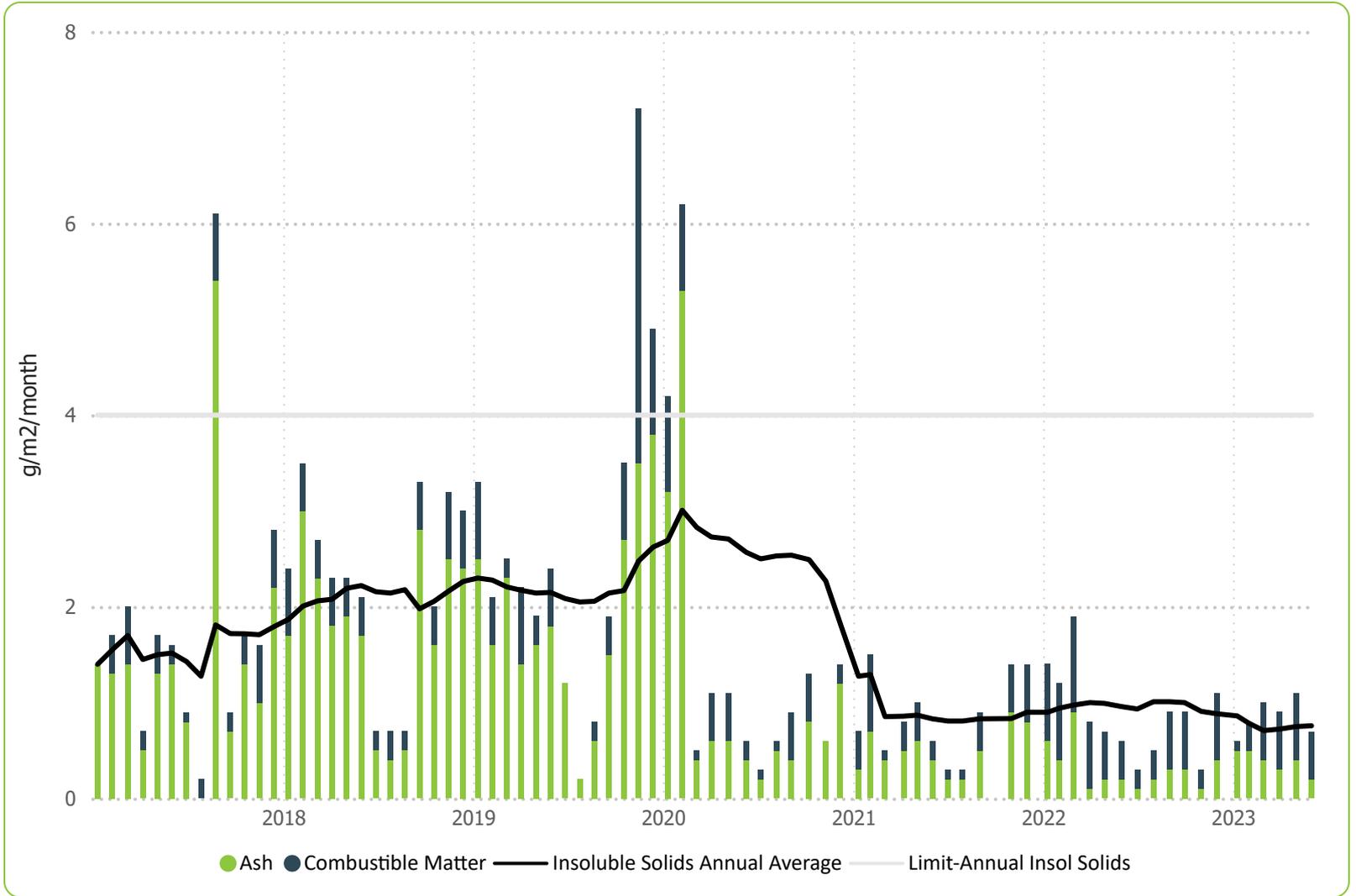
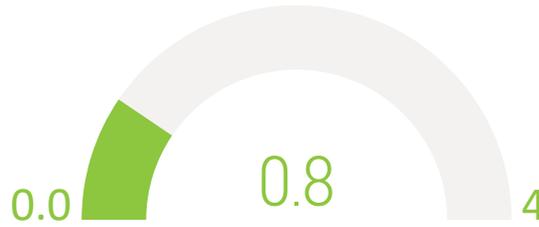
**Insoluble Solids
Annual Average
g/m2/month**



Date On	Comments	Date Sampled	Days On	Insoluble Solids	Ash	Combustible Matter	Calculated Rain
6/01/25	Bottle full of water	3/2/25	28	1.4	0.5	0.9	116
3/02/25		3/3/25	28	1.1	0.3	0.8	43
3/03/25		1/4/25	29	0.6	0.2	0.4	115
1/04/25		1/5/25	30	0.5	0.2	0.3	80
1/05/25		30/5/25	28	0.4	0.0	0.4	115
30/05/25		1/7/25	32	0.6	0.2	0.4	21
1/07/25		1/8/25	31	0.5	0.2	0.3	96
1/08/25		2/9/25	32	0.7	0.2	0.5	114
2/09/25		1/10/25	29	2.9	0.9	2.0	51
1/10/25		4/11/25	28	4.2	1.3	2.9	32
4/11/25		1/12/25	27	5.4	1.4	4.0	22
1/12/25		12/1/26	28	2.9	1.3	1.6	110



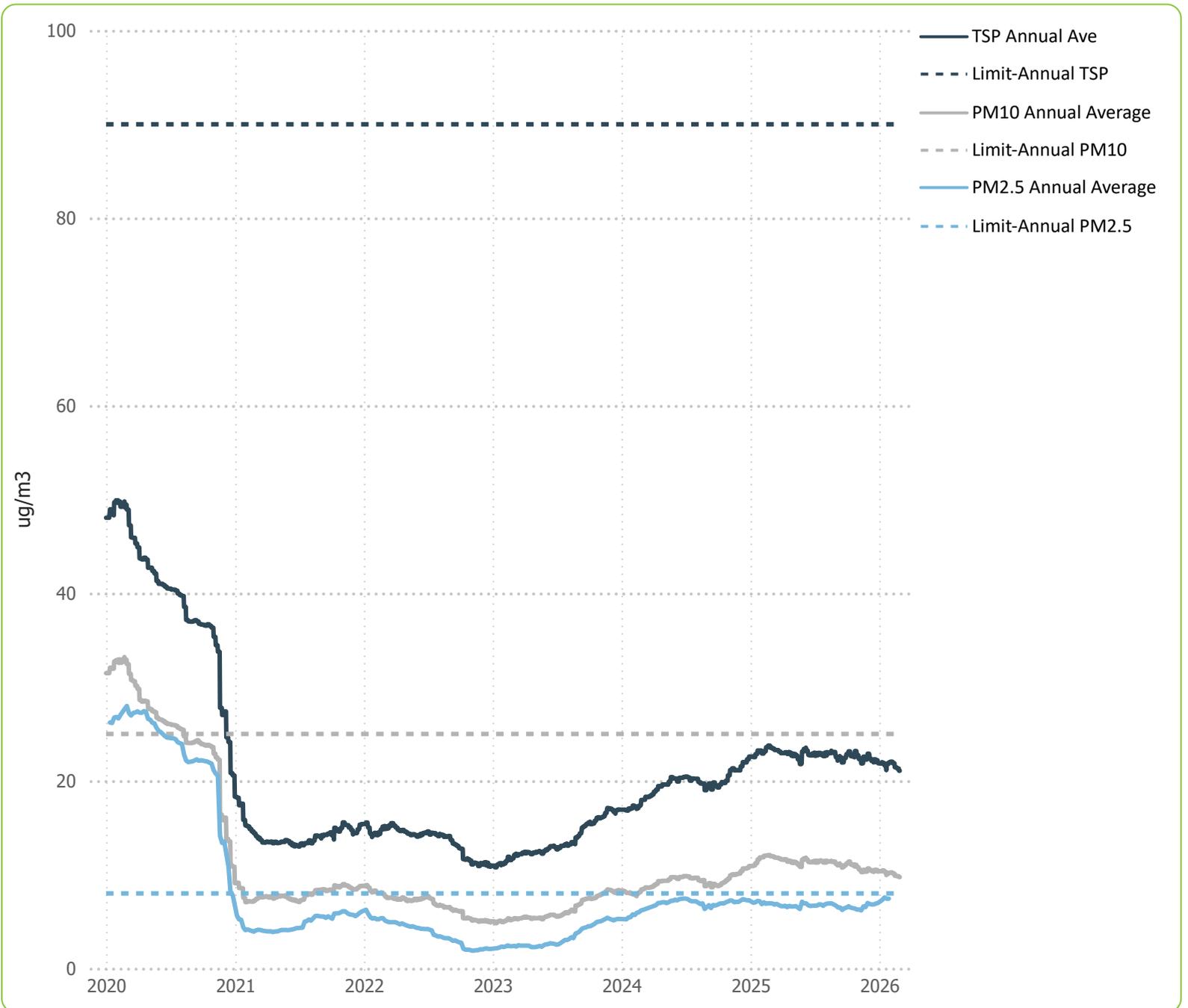
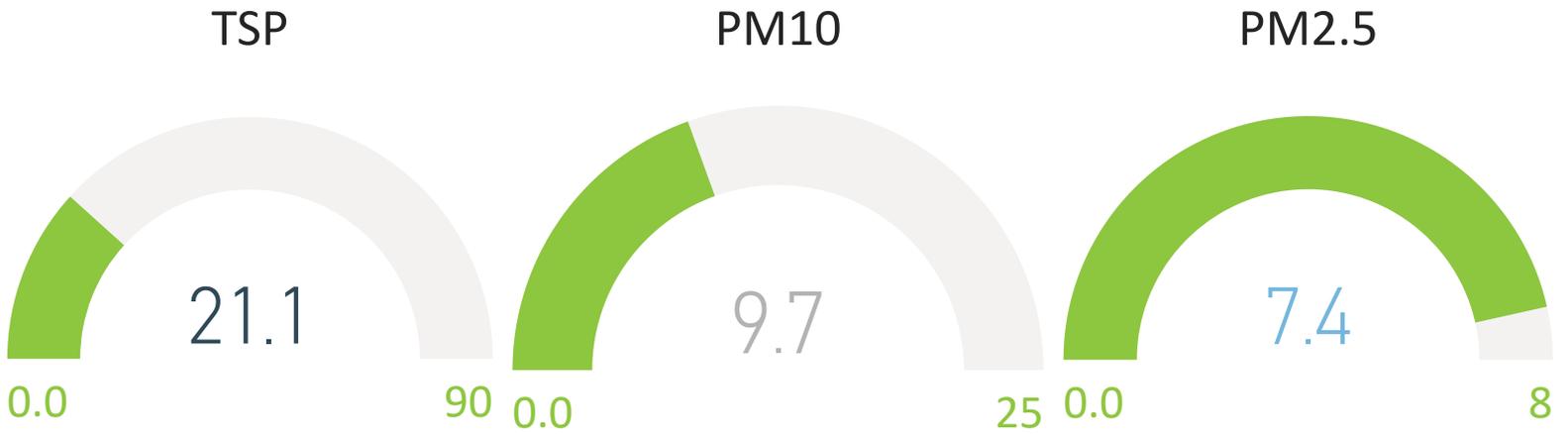
**Insoluble Solids
Annual Average
g/m2/month**



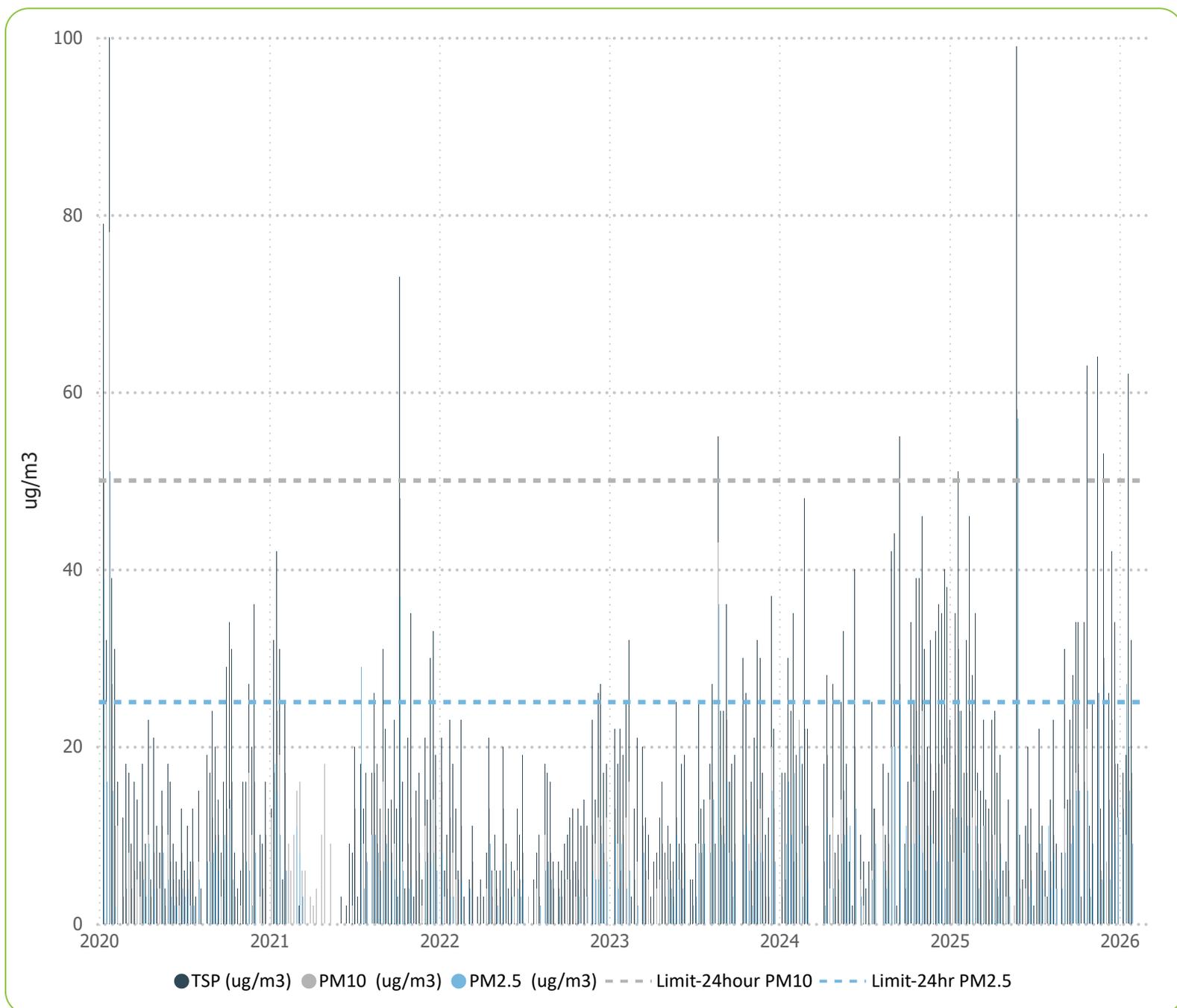
Date On	Comments
1/06/22	Sampled by Melissa Mass
1/07/22	Sampled by Melissa Mass. Flooding rainfall event during July.
1/08/22	Sampled by Melissa Mass.
1/09/22	Sampled by Melissa Mass.
30/09/22	Sampled by Melissa Mass.
1/11/22	Sampled by Melissa Mass.
1/12/22	Sampled by Melissa Mass.
9/01/23	
1/02/23	Sampled by M.Mass
1/03/23	Sampled by M.Mass. Not compliant - Clear sky/ 10m from obstacle
31/03/23	Sampled by M.Mass.
2/05/23	Sampled by M.Mass.

Date Sampled	Days On	Insoluble Solids	Ash	Combustible Matter	Calculated Rain
1/7/22	30	0.3	0.1	0.2	4
1/8/22	31	0.5	0.2	0.3	115
1/9/22	31	0.9	0.3	0.6	26
30/9/22	29	0.9	0.3	0.6	72
1/11/22	32	0.3	0.1	0.2	114
1/12/22	30	1.1	0.4	0.7	20
9/1/23	39	0.6	0.5	0.1	68
1/2/23	23	0.8	0.5	0.3	114
1/3/23	28	1.0	0.4	0.6	114
31/3/23	30	0.9	0.3	0.6	47
2/5/23	32	1.1	0.4	0.7	67
1/6/23	30	0.7	0.2	0.5	12

Particulate Matter Annual Averages ($\mu\text{g}/\text{m}^3$)



Particulate Matter 24 Hour Averages ($\mu\text{g}/\text{m}^3$)



PM10 24 hour exceedances ($>50 \mu\text{g}/\text{m}^3$)

Date PM10 ($\mu\text{g}/\text{m}^3$) Sampling Comments

PM2.5 24 hour exceedances ($>25 \mu\text{g}/\text{m}^3$)

Date PM2.5 ($\mu\text{g}/\text{m}^3$) Sampling Comments

17/11/25	26.00	
29/11/25	27.00	
16/1/26	27.00	Paper got wet and dirt spilt on it.

Sample

Dam 1 - Process

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
Dam 1 - Process	9/4/25	6.6	219	140	53	11	5.0	4.0	20	2.0
Dam 1 - Process	30/7/25	6.8	184	110	36	14	5.4	3.0	20	2.0
Dam 1 - Process	22/10/25	5.7	181	110	36	16	4.0	3.0	17	2.0
Dam 1 - Process	9/1/26	6.9	193	120	40	14	6.2	3.0	20	2.0

Sample	Date	Average of pH	Average of Electrical Conductivity	Average of Total Dissolved Solids	Average of Chloride	Average of Sulphate	Average of Calcium	Average of Magnesium	Average of Sodium	Average of Potassium
Dam 1 - Process	9/4/25	6.6	219	140	53	11	5.0	4.0	20	2.0
Dam 1 - Process	30/7/25	6.8	184	110	36	14	5.4	3.0	20	2.0
Dam 1 - Process	22/10/25	5.7	181	110	36	16	4.0	3.0	17	2.0
Dam 1 - Process	9/1/26	6.9	193	120	40	14	6.2	3.0	20	2.0

Sample	Date	Min of pH	Min of Electrical Conductivity	Min of Total Dissolved Solids	Min of Chloride	Min of Sulphate	Min of Calcium	Min of Magnesium	Min of Sodium	Min of Potassium
Dam 1 - Process	9/4/25	6.6	219	140	53	11	5.0	4.0	20	2.0
Dam 1 - Process	30/7/25	6.8	184	110	36	14	5.4	3.0	20	2.0
Dam 1 - Process	22/10/25	5.7	181	110	36	16	4.0	3.0	17	2.0
Dam 1 - Process	9/1/26	6.9	193	120	40	14	6.2	3.0	20	2.0

Sample	Date	Max of pH	Max of Electrical Conductivity	Max of Total Dissolved Solids	Max of Chloride	Max of Sulphate	Max of Calcium	Max of Magnesium	Max of Sodium	Max of Potassium
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Dam 1 - Process	30/7/25	6.8	184	110	36	14	5.4	3.0	20	2.0
Dam 1 - Process	22/10/25	5.7	181	110	36	16	4.0	3.0	17	2.0
Dam 1 - Process	9/1/26	6.9	193	120	40	14	6.2	3.0	20	2.0

Sample

Dam 2 - Tailings

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
Dam 2 - Tailings	9/4/25	4.3	209	130	51	7	4.0	4.0	18	2.0
Dam 2 - Tailings	30/7/25	4.0	264	160	66	3	1.0	5.7	31	1.0
Dam 2 - Tailings	22/10/25	4.6	205	130	44	7	3.0	4.0	18	2.0
Dam 2 - Tailings	9/1/26	5.8	207	130	46	11	5.6	4.0	24	2.0

Sample	Date	Average of pH	Average of Electrical Conductivity	Average of Total Dissolved Solids	Average of Chloride	Average of Sulphate	Average of Calcium	Average of Magnesium	Average of Sodium	Average of Potassium
Dam 2 - Tailings	9/4/25	4.3	209	130	51	7	4.0	4.0	18	2.0
Dam 2 - Tailings	30/7/25	4.0	264	160	66	3	1.0	5.7	31	1.0
Dam 2 - Tailings	22/10/25	4.6	205	130	44	7	3.0	4.0	18	2.0
Dam 2 - Tailings	9/1/26	5.8	207	130	46	11	5.6	4.0	24	2.0

Sample	Date	Min of pH	Min of Electrical Conductivity	Min of Total Dissolved Solids	Min of Chloride	Min of Sulphate	Min of Calcium	Min of Magnesium	Min of Sodium	Min of Potassium
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Dam 2 - Tailings	30/7/25	4.0	264	160	66	3	1.0	5.7	31	1.0
Dam 2 - Tailings	22/10/25	4.6	205	130	44	7	3.0	4.0	18	2.0
Dam 2 - Tailings	9/1/26	5.8	207	130	46	11	5.6	4.0	24	2.0

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Dam 2 - Tailings	9/4/25	4.3	209	130	51	7	4.0	4.0	18	2.0
Dam 2 - Tailings	30/7/25	4.0	264	160	66	3	1.0	5.7	31	1.0
Dam 2 - Tailings	22/10/25	4.6	205	130	44	7	3.0	4.0	18	2.0
Dam 2 - Tailings	9/1/26	5.8	207	130	46	11	5.6	4.0	24	2.0

Sample

Dam 3 - Nursery

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
Dam 3 - Nursery	9/4/25	6.2	216	130	50	6	5.8	5.3	19	5.0
Dam 3 - Nursery	30/7/25	5.8	173	110	37	6	3.0	4.0	18	3.0
Dam 3 - Nursery	22/10/25	6.4	167	100	36	7	4.0	4.0	15	3.0
Dam 3 - Nursery	9/1/26	6.2	184	110	39	8	5.3	4.0	19	3.0

Sample	Date	Average of pH	Average of Electrical Conductivity	Average of Total Dissolved Solids	Average of Chloride	Average of Sulphate	Average of Calcium	Average of Magnesium	Average of Sodium	Average of Potassium
Dam 3 - Nursery	9/4/25	6.2	216	130	50	6	5.8	5.3	19	5.0
Dam 3 - Nursery	30/7/25	5.8	173	110	37	6	3.0	4.0	18	3.0
Dam 3 - Nursery	22/10/25	6.4	167	100	36	7	4.0	4.0	15	3.0
Dam 3 - Nursery	9/1/26	6.2	184	110	39	8	5.3	4.0	19	3.0

Sample	Date	Min of pH	Min of Electrical Conductivity	Min of Total Dissolved Solids	Min of Chloride	Min of Sulphate	Min of Calcium	Min of Magnesium	Min of Sodium	Min of Potassium
Dam 3 - Nursery	9/4/25	6.2	216	130	50	6	5.8	5.3	19	5.0
Dam 3 - Nursery	30/7/25	5.8	173	110	37	6	3.0	4.0	18	3.0
Dam 3 - Nursery	22/10/25	6.4	167	100	36	7	4.0	4.0	15	3.0
Dam 3 - Nursery	9/1/26	6.2	184	110	39	8	5.3	4.0	19	3.0

Sample	Date	Max of pH	Max of Electrical Conductivity	Max of Total Dissolved Solids	Max of Chloride	Max of Sulphate	Max of Calcium	Max of Magnesium	Max of Sodium	Max of Potassium
Dam 3 - Nursery	9/4/25	6.2	216	130	50	6	5.8	5.3	19	5.0
Dam 3 - Nursery	30/7/25	5.8	173	110	37	6	3.0	4.0	18	3.0
Dam 3 - Nursery	22/10/25	6.4	167	100	36	7	4.0	4.0	15	3.0
Dam 3 - Nursery	9/1/26	6.2	184	110	39	8	5.3	4.0	19	3.0

Sample

Dam 4 - Farm

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
Dam 4 - Farm	9/4/25	8.8	212	130	31	2	6.6	5.7	15	13.0
Dam 4 - Farm	30/7/25	6.1	123	77	24	3	3.0	3.0	13	4.0
Dam 4 - Farm	22/10/25	6.4	138	86	27	4	3.0	3.0	13	4.0
Dam 4 - Farm	9/1/26	6.3	176	110	32	4	4.0	4.0	16	5.1

Sample	Date	Average of pH	Average of Electrical Conductivity	Average of Total Dissolved Solids	Average of Chloride	Average of Sulphate	Average of Calcium	Average of Magnesium	Average of Sodium	Average of Potassium
Dam 4 - Farm	9/4/25	8.8	212	130	31	2	6.6	5.7	15	13.0
Dam 4 - Farm	30/7/25	6.1	123	77	24	3	3.0	3.0	13	4.0
Dam 4 - Farm	22/10/25	6.4	138	86	27	4	3.0	3.0	13	4.0
Dam 4 - Farm	9/1/26	6.3	176	110	32	4	4.0	4.0	16	5.1

Sample	Date	Min of pH	Min of Electrical Conductivity	Min of Total Dissolved Solids	Min of Chloride	Min of Sulphate	Min of Calcium	Min of Magnesium	Min of Sodium	Min of Potassium
Dam 4 - Farm	9/4/25	8.8	212	130	31	2	6.6	5.7	15	13.0
Dam 4 - Farm	30/7/25	6.1	123	77	24	3	3.0	3.0	13	4.0
Dam 4 - Farm	22/10/25	6.4	138	86	27	4	3.0	3.0	13	4.0
Dam 4 - Farm	9/1/26	6.3	176	110	32	4	4.0	4.0	16	5.1

Sample	Date	Max of pH	Max of Electrical Conductivity	Max of Total Dissolved Solids	Max of Chloride	Max of Sulphate	Max of Calcium	Max of Magnesium	Max of Sodium	Max of Potassium
Dam 4 - Farm	9/4/25	8.8	212	130	31	2	6.6	5.7	15	13.0
Dam 4 - Farm	30/7/25	6.1	123	77	24	3	3.0	3.0	13	4.0
Dam 4 - Farm	22/10/25	6.4	138	86	27	4	3.0	3.0	13	4.0
Dam 4 - Farm	9/1/26	6.3	176	110	32	4	4.0	4.0	16	5.1

Sample

MW1

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
MW1	9/4/25	4.1	332	210	40	30	9.1	15.0	13	6.0
MW1	30/7/25	4.5	305	190	47	16	6.5	11.0	20	4.0
MW1	22/10/25	4.7	274	170	52	13	5.0	9.1	20	3.0
MW1	9/1/26	4.7	338	210	44	20	9.5	16.0	20	6.1

Sample	Date	Average of pH	Average of Electrical Conductivity	Average of Total Dissolved Solids	Average of Chloride	Average of Sulphate	Average of Calcium	Average of Magnesium	Average of Sodium	Average of Potassium
MW1	9/4/25	4.1	332	210	40	30	9.1	15.0	13	6.0
MW1	30/7/25	4.5	305	190	47	16	6.5	11.0	20	4.0
MW1	22/10/25	4.7	274	170	52	13	5.0	9.1	20	3.0
MW1	9/1/26	4.7	338	210	44	20	9.5	16.0	20	6.1

Sample	Date	Min of pH	Min of Electrical Conductivity	Min of Total Dissolved Solids	Min of Chloride	Min of Sulphate	Min of Calcium	Min of Magnesium	Min of Sodium	Min of Potassium
MW1	9/4/25	4.1	332	210	40	30	9.1	15.0	13	6.0
MW1	30/7/25	4.5	305	190	47	16	6.5	11.0	20	4.0
MW1	22/10/25	4.7	274	170	52	13	5.0	9.1	20	3.0
MW1	9/1/26	4.7	338	210	44	20	9.5	16.0	20	6.1

Sample	Date	Max of pH	Max of Electrical Conductivity	Max of Total Dissolved Solids	Max of Chloride	Max of Sulphate	Max of Calcium	Max of Magnesium	Max of Sodium	Max of Potassium
MW1	9/4/25	4.1	332	210	40	30	9.1	15.0	13	6.0
MW1	30/7/25	4.5	305	190	47	16	6.5	11.0	20	4.0
MW1	22/10/25	4.7	274	170	52	13	5.0	9.1	20	3.0
MW1	9/1/26	4.7	338	210	44	20	9.5	16.0	20	6.1

Sample

MW10

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
MW10	9/4/25	4.3	173	110	38	0	0.7	5.3	12	0.7
MW10	30/7/25	4.6	148	92	33	0	1.0	5.0	13	0.9
MW10	22/10/25	4.5	143	89	32	0	0.5	5.0	11	1.0
MW10	9/1/26	4.5	154	96	32	1	0.8	4.0	13	1.0

Sample	Date	Average of pH	Average of Electrical Conductivity	Average of Total Dissolved Solids	Average of Chloride	Average of Sulphate	Average of Calcium	Average of Magnesium	Average of Sodium	Average of Potassium
MW10	9/4/25	4.3	173	110	38	0	0.7	5.3	12	0.7
MW10	30/7/25	4.6	148	92	33	0	1.0	5.0	13	0.9
MW10	22/10/25	4.5	143	89	32	0	0.5	5.0	11	1.0
MW10	9/1/26	4.5	154	96	32	1	0.8	4.0	13	1.0

Sample	Date	Min of pH	Min of Electrical Conductivity	Min of Total Dissolved Solids	Min of Chloride	Min of Sulphate	Min of Calcium	Min of Magnesium	Min of Sodium	Min of Potassium
MW10	9/4/25	4.3	173	110	38	0	0.7	5.3	12	0.7
MW10	30/7/25	4.6	148	92	33	0	1.0	5.0	13	0.9
MW10	22/10/25	4.5	143	89	32	0	0.5	5.0	11	1.0
MW10	9/1/26	4.5	154	96	32	1	0.8	4.0	13	1.0

Sample	Date	Max of pH	Max of Electrical Conductivity	Max of Total Dissolved Solids	Max of Chloride	Max of Sulphate	Max of Calcium	Max of Magnesium	Max of Sodium	Max of Potassium
MW10	9/4/25	4.3	173	110	38	0	0.7	5.3	12	0.7
MW10	30/7/25	4.6	148	92	33	0	1.0	5.0	13	0.9
MW10	22/10/25	4.5	143	89	32	0	0.5	5.0	11	1.0
MW10	9/1/26	4.5	154	96	32	1	0.8	4.0	13	1.0

Sample

MW11 (Off Old Telegraph Rd)

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
MW11 (Off Old Telegraph Rd)	9/4/25	5.5	184	110	40	4	5.2	3.0	15	3.0
MW11 (Off Old Telegraph Rd)	30/7/25	5.8	243	150	40	21	15.0	5.3	20	5.0
MW11 (Off Old Telegraph Rd)	22/10/25	5.9	238	150	37	20	16.0	5.0	16	4.0
MW11 (Off Old Telegraph Rd)	9/1/26	5.7	202	130	37	7	7.1	4.0	18	4.0

Sample	Date	Average of pH	Average of Electrical Conductivity	Average of Total Dissolved Solids	Average of Chloride	Average of Sulphate	Average of Calcium	Average of Magnesium	Average of Sodium	Average of Potassium
MW11 (Off Old Telegraph Rd)	9/4/25	5.5	184	110	40	4	5.2	3.0	15	3.0
MW11 (Off Old Telegraph Rd)	30/7/25	5.8	243	150	40	21	15.0	5.3	20	5.0
MW11 (Off Old Telegraph Rd)	22/10/25	5.9	238	150	37	20	16.0	5.0	16	4.0
MW11 (Off Old Telegraph Rd)	9/1/26	5.7	202	130	37	7	7.1	4.0	18	4.0

Sample	Date	Min of pH	Min of Electrical Conductivity	Min of Total Dissolved Solids	Min of Chloride	Min of Sulphate	Min of Calcium	Min of Magnesium	Min of Sodium	Min of Potassium
MW11 (Off Old Telegraph Rd)	9/4/25	5.5	184	110	40	4	5.2	3.0	15	3.0
MW11 (Off Old Telegraph Rd)	30/7/25	5.8	243	150	40	21	15.0	5.3	20	5.0
MW11 (Off Old Telegraph Rd)	22/10/25	5.9	238	150	37	20	16.0	5.0	16	4.0
MW11 (Off Old Telegraph Rd)	9/1/26	5.7	202	130	37	7	7.1	4.0	18	4.0

Sample	Date	Max of pH	Max of Electrical Conductivity	Max of Total Dissolved Solids	Max of Chloride	Max of Sulphate	Max of Calcium	Max of Magnesium	Max of Sodium	Max of Potassium
MW11 (Off Old Telegraph Rd)	9/4/25	5.5	184	110	40	4	5.2	3.0	15	3.0
MW11 (Off Old Telegraph Rd)	30/7/25	5.8	243	150	40	21	15.0	5.3	20	5.0
MW11 (Off Old Telegraph Rd)	22/10/25	5.9	238	150	37	20	16.0	5.0	16	4.0
MW11 (Off Old Telegraph Rd)	9/1/26	5.7	202	130	37	7	7.1	4.0	18	4.0

Sample

MW12

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
MW12	9/4/25	5.8	129	81	23	4	3.0	2.0	10	0.8
MW12	30/7/25	5.0	114	71	22	6	3.0	1.0	14	0.7
MW12	22/10/25	4.7	111	69	22	7	1.0	2.0	12	0.8
MW12	9/1/26	5.0	125	78	23	8	3.0	2.0	14	0.7

Sample	Date	Average of pH	Average of Electrical Conductivity	Average of Total Dissolved Solids	Average of Chloride	Average of Sulphate	Average of Calcium	Average of Magnesium	Average of Sodium	Average of Potassium
MW12	9/4/25	5.8	129	81	23	4	3.0	2.0	10	0.8
MW12	30/7/25	5.0	114	71	22	6	3.0	1.0	14	0.7
MW12	22/10/25	4.7	111	69	22	7	1.0	2.0	12	0.8
MW12	9/1/26	5.0	125	78	23	8	3.0	2.0	14	0.7

Sample	Date	Min of pH	Min of Electrical Conductivity	Min of Total Dissolved Solids	Min of Chloride	Min of Sulphate	Min of Calcium	Min of Magnesium	Min of Sodium	Min of Potassium
MW12	9/4/25	5.8	129	81	23	4	3.0	2.0	10	0.8
MW12	30/7/25	5.0	114	71	22	6	3.0	1.0	14	0.7
MW12	22/10/25	4.7	111	69	22	7	1.0	2.0	12	0.8
MW12	9/1/26	5.0	125	78	23	8	3.0	2.0	14	0.7

Sample	Date	Max of pH	Max of Electrical Conductivity	Max of Total Dissolved Solids	Max of Chloride	Max of Sulphate	Max of Calcium	Max of Magnesium	Max of Sodium	Max of Potassium
MW12	9/4/25	5.8	129	81	23	4	3.0	2.0	10	0.8
MW12	30/7/25	5.0	114	71	22	6	3.0	1.0	14	0.7
MW12	22/10/25	4.7	111	69	22	7	1.0	2.0	12	0.8
MW12	9/1/26	5.0	125	78	23	8	3.0	2.0	14	0.7

Sample

MW6 (Office)

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
MW6 (Office)	9/4/25	7.2	331	210	80	0	4.0	3.0	36	2.0
MW6 (Office)	30/7/25	8.2	323	200	78	0	4.0	3.0	46	2.0
MW6 (Office)	22/10/25	8.0	292	180	69	0	4.0	4.0	37	2.0
MW6 (Office)	9/1/26	7.9	275	170	61	0	5.0	4.0	38	2.0

Sample	Date	Average of pH	Average of Electrical Conductivity	Average of Total Dissolved Solids	Average of Chloride	Average of Sulphate	Average of Calcium	Average of Magnesium	Average of Sodium	Average of Potassium
MW6 (Office)	9/4/25	7.2	331	210	80	0	4.0	3.0	36	2.0
MW6 (Office)	30/7/25	8.2	323	200	78	0	4.0	3.0	46	2.0
MW6 (Office)	22/10/25	8.0	292	180	69	0	4.0	4.0	37	2.0
MW6 (Office)	9/1/26	7.9	275	170	61	0	5.0	4.0	38	2.0

Sample	Date	Min of pH	Min of Electrical Conductivity	Min of Total Dissolved Solids	Min of Chloride	Min of Sulphate	Min of Calcium	Min of Magnesium	Min of Sodium	Min of Potassium
MW6 (Office)	9/4/25	7.2	331	210	80	0	4.0	3.0	36	2.0
MW6 (Office)	30/7/25	8.2	323	200	78	0	4.0	3.0	46	2.0
MW6 (Office)	22/10/25	8.0	292	180	69	0	4.0	4.0	37	2.0
MW6 (Office)	9/1/26	7.9	275	170	61	0	5.0	4.0	38	2.0

Sample	Date	Max of pH	Max of Electrical Conductivity	Max of Total Dissolved Solids	Max of Chloride	Max of Sulphate	Max of Calcium	Max of Magnesium	Max of Sodium	Max of Potassium
MW6 (Office)	9/4/25	7.2	331	210	80	0	4.0	3.0	36	2.0
MW6 (Office)	30/7/25	8.2	323	200	78	0	4.0	3.0	46	2.0
MW6 (Office)	22/10/25	8.0	292	180	69	0	4.0	4.0	37	2.0
MW6 (Office)	9/1/26	7.9	275	170	61	0	5.0	4.0	38	2.0

Sample

MW7

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
MW7	9/4/25	5.4	176	110	30	6	3.0	2.0	19	0.7
MW7	30/7/25	4.8	235	150	48	6	6.3	4.0	29	1.0
MW7	22/10/25	5.2	176	110	30	5	3.0	3.0	19	0.8
MW7	9/1/26	5.3	207	130	33	5	5.4	4.0	23	0.9

Sample	Date	Average of pH	Average of Electrical Conductivity	Average of Total Dissolved Solids	Average of Chloride	Average of Sulphate	Average of Calcium	Average of Magnesium	Average of Sodium	Average of Potassium
MW7	9/4/25	5.4	176	110	30	6	3.0	2.0	19	0.7
MW7	30/7/25	4.8	235	150	48	6	6.3	4.0	29	1.0
MW7	22/10/25	5.2	176	110	30	5	3.0	3.0	19	0.8
MW7	9/1/26	5.3	207	130	33	5	5.4	4.0	23	0.9

Sample	Date	Min of pH	Min of Electrical Conductivity	Min of Total Dissolved Solids	Min of Chloride	Min of Sulphate	Min of Calcium	Min of Magnesium	Min of Sodium	Min of Potassium
MW7	9/4/25	5.4	176	110	30	6	3.0	2.0	19	0.7
MW7	30/7/25	4.8	235	150	48	6	6.3	4.0	29	1.0
MW7	22/10/25	5.2	176	110	30	5	3.0	3.0	19	0.8
MW7	9/1/26	5.3	207	130	33	5	5.4	4.0	23	0.9

Sample	Date	Max of pH	Max of Electrical Conductivity	Max of Total Dissolved Solids	Max of Chloride	Max of Sulphate	Max of Calcium	Max of Magnesium	Max of Sodium	Max of Potassium
MW7	9/4/25	5.4	176	110	30	6	3.0	2.0	19	0.7
MW7	30/7/25	4.8	235	150	48	6	6.3	4.0	29	1.0
MW7	22/10/25	5.2	176	110	30	5	3.0	3.0	19	0.8
MW7	9/1/26	5.3	207	130	33	5	5.4	4.0	23	0.9

Sample

MW8

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
MW8	9/4/25	4.2	236	150	60	1	2.0	4.0	21	0.0
MW8	30/7/25	4.3	246	150	60	1	2.0	3.0	27	0.0
MW8	22/10/25	4.2	244	150	60	1	0.8	3.0	25	0.0
MW8	9/1/26	4.3	260	160	61	2	2.0	4.0	28	0.0

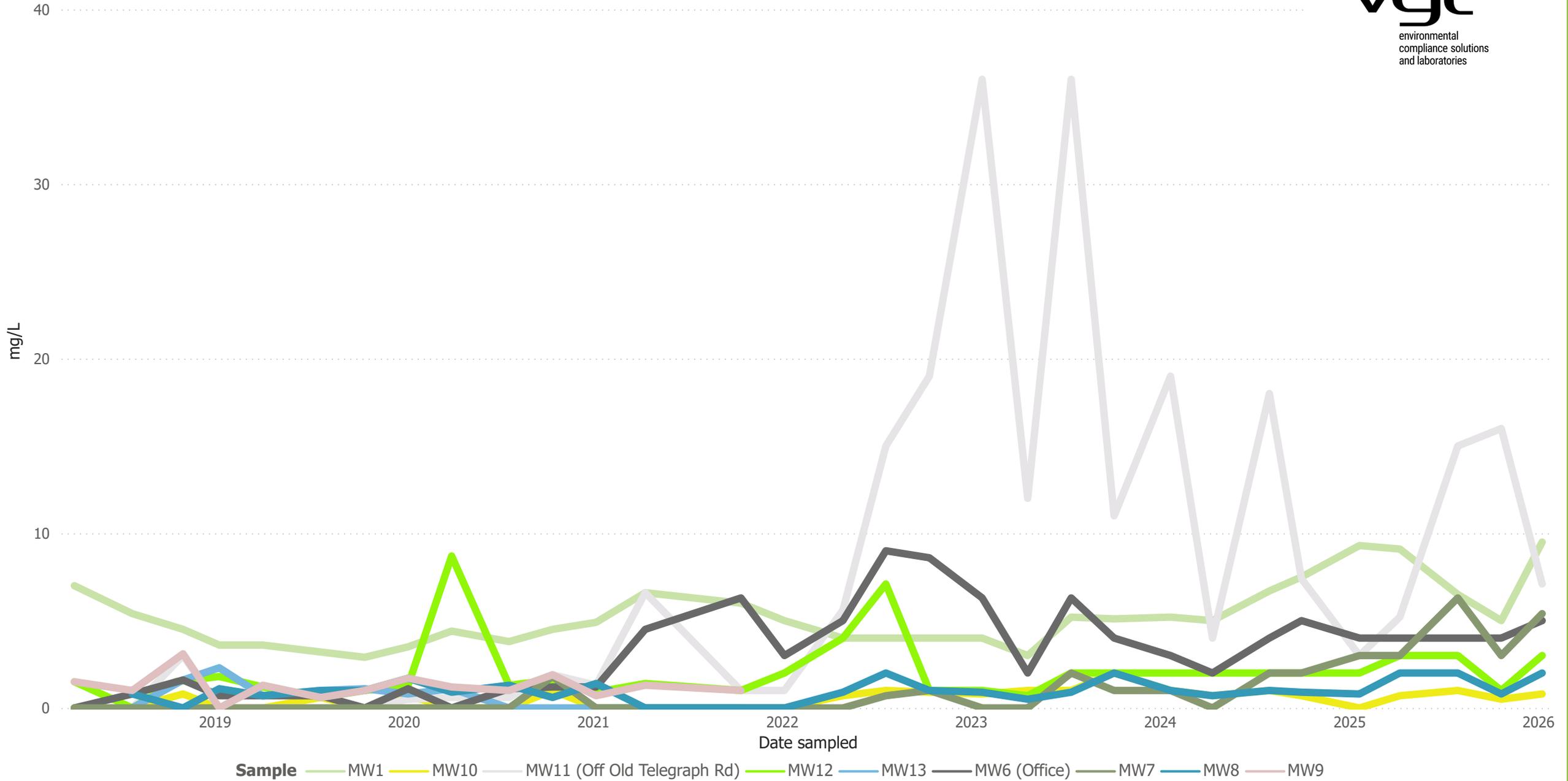
Sample	Date	Average of pH	Average of Electrical Conductivity	Average of Total Dissolved Solids	Average of Chloride	Average of Sulphate	Average of Calcium	Average of Magnesium	Average of Sodium	Average of Potassium
MW8	9/4/25	4.2	236	150	60	1	2.0	4.0	21	0.0
MW8	30/7/25	4.3	246	150	60	1	2.0	3.0	27	0.0
MW8	22/10/25	4.2	244	150	60	1	0.8	3.0	25	0.0
MW8	9/1/26	4.3	260	160	61	2	2.0	4.0	28	0.0

Sample	Date	Min of pH	Min of Electrical Conductivity	Min of Total Dissolved Solids	Min of Chloride	Min of Sulphate	Min of Calcium	Min of Magnesium	Min of Sodium	Min of Potassium
MW8	9/4/25	4.2	236	150	60	1	2.0	4.0	21	0.0
MW8	30/7/25	4.3	246	150	60	1	2.0	3.0	27	0.0
MW8	22/10/25	4.2	244	150	60	1	0.8	3.0	25	0.0
MW8	9/1/26	4.3	260	160	61	2	2.0	4.0	28	0.0

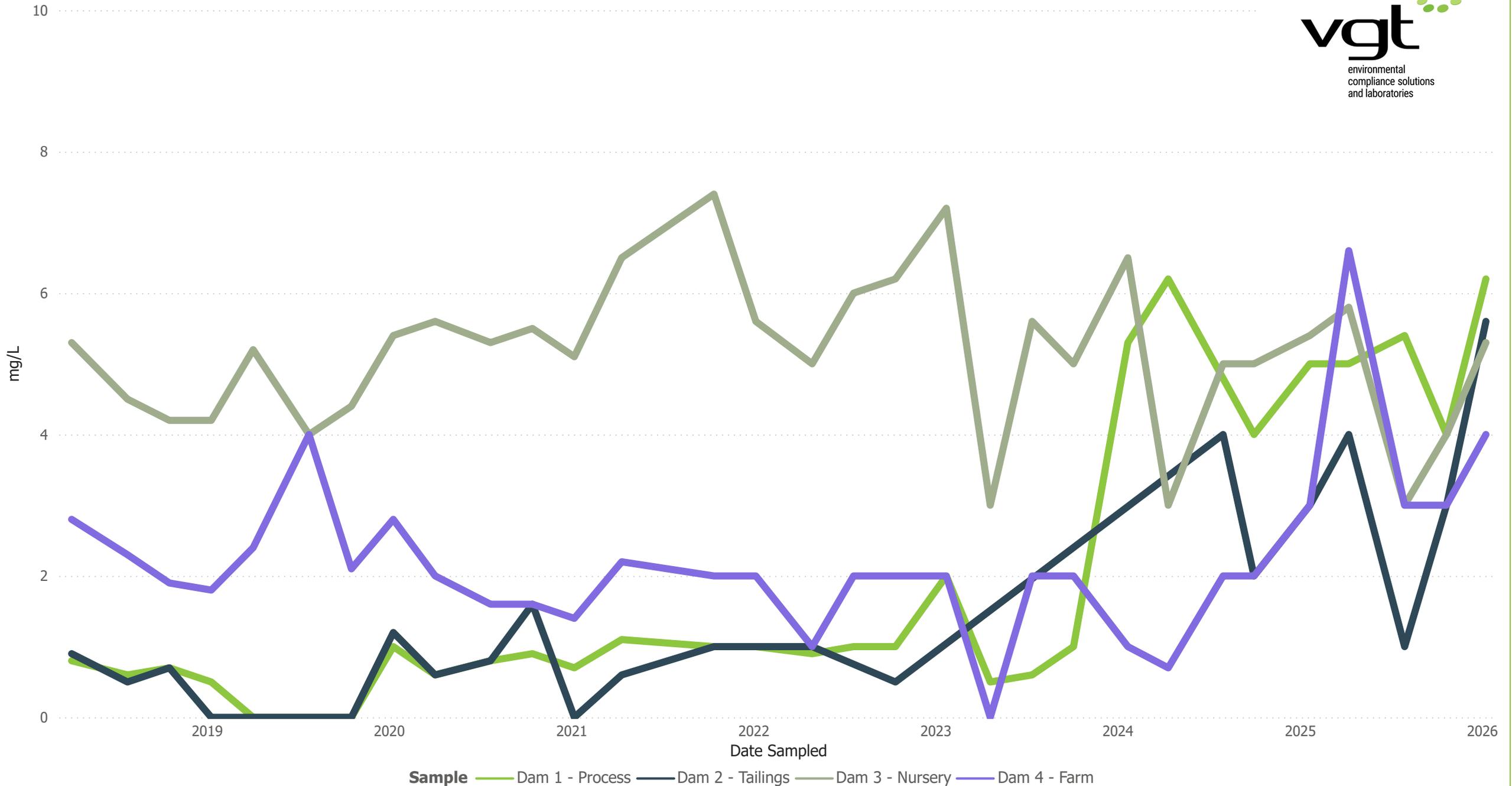
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MW8	9/4/25	4.2	236	150	60	1	2.0	4.0	21	0.0
MW8	30/7/25	4.3	246	150	60	1	2.0	3.0	27	0.0
MW8	22/10/25	4.2	244	150	60	1	0.8	3.0	25	0.0
MW8	9/1/26	4.3	260	160	61	2	2.0	4.0	28	0.0

Water Quality Trends

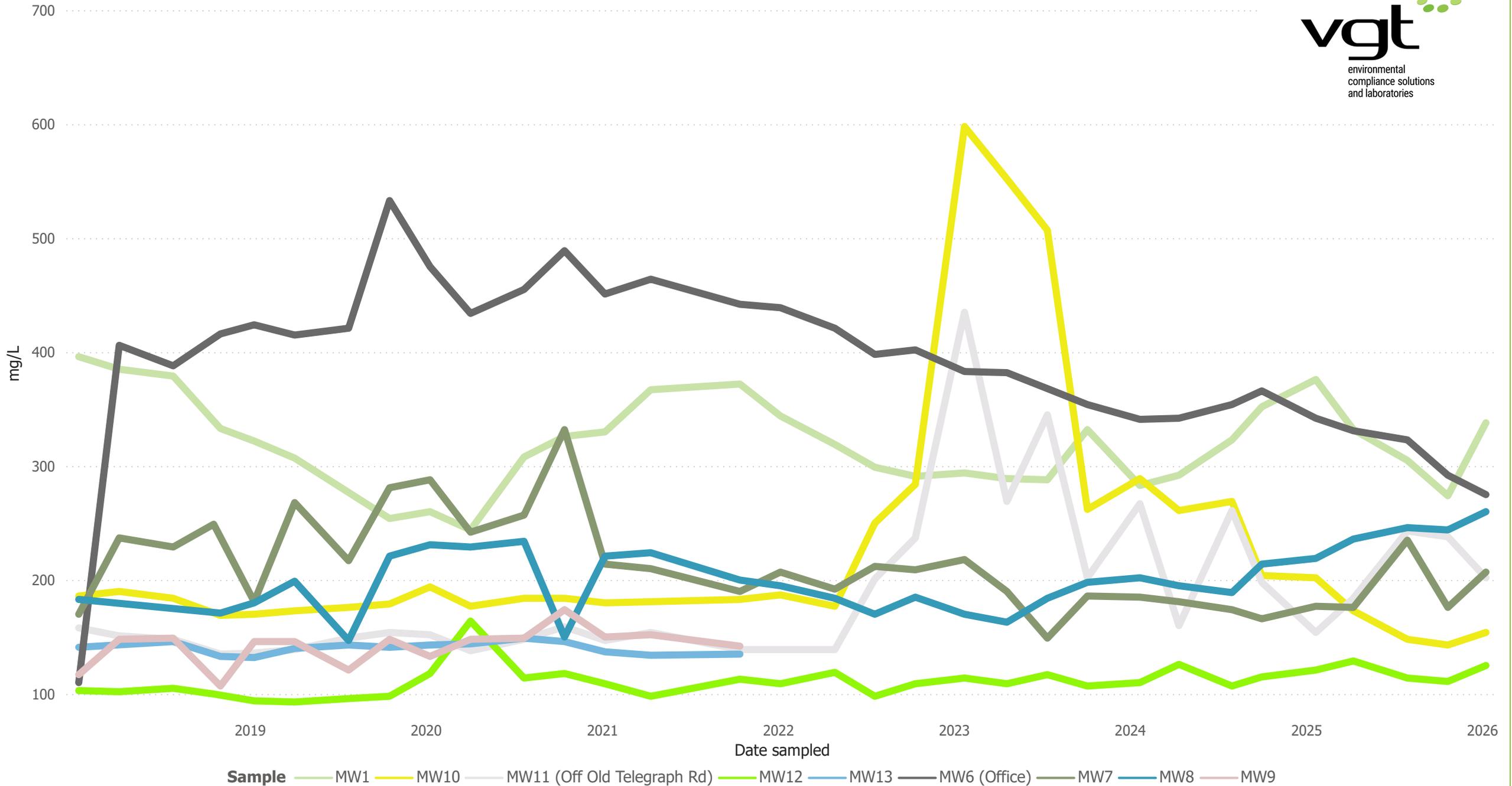
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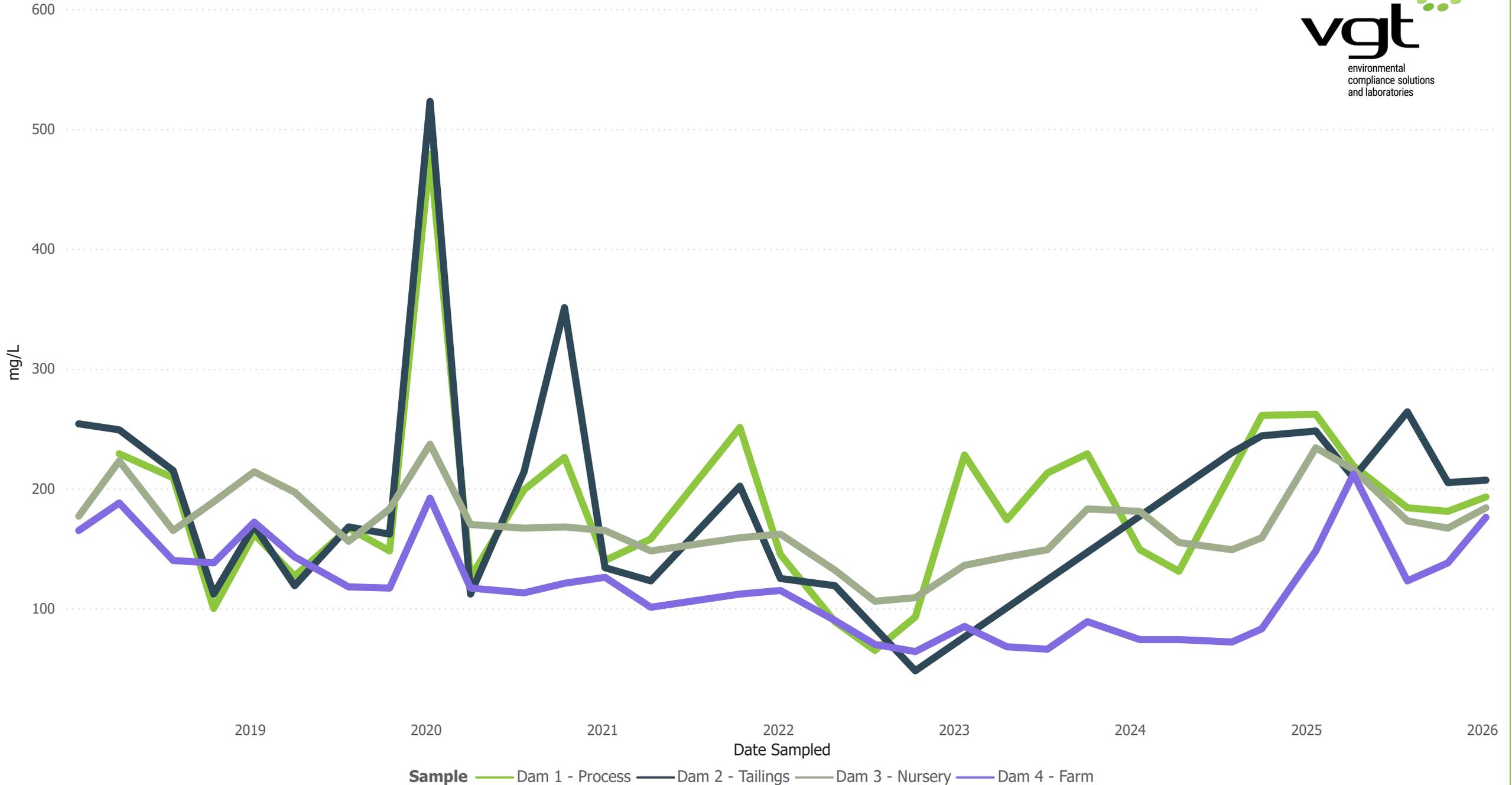
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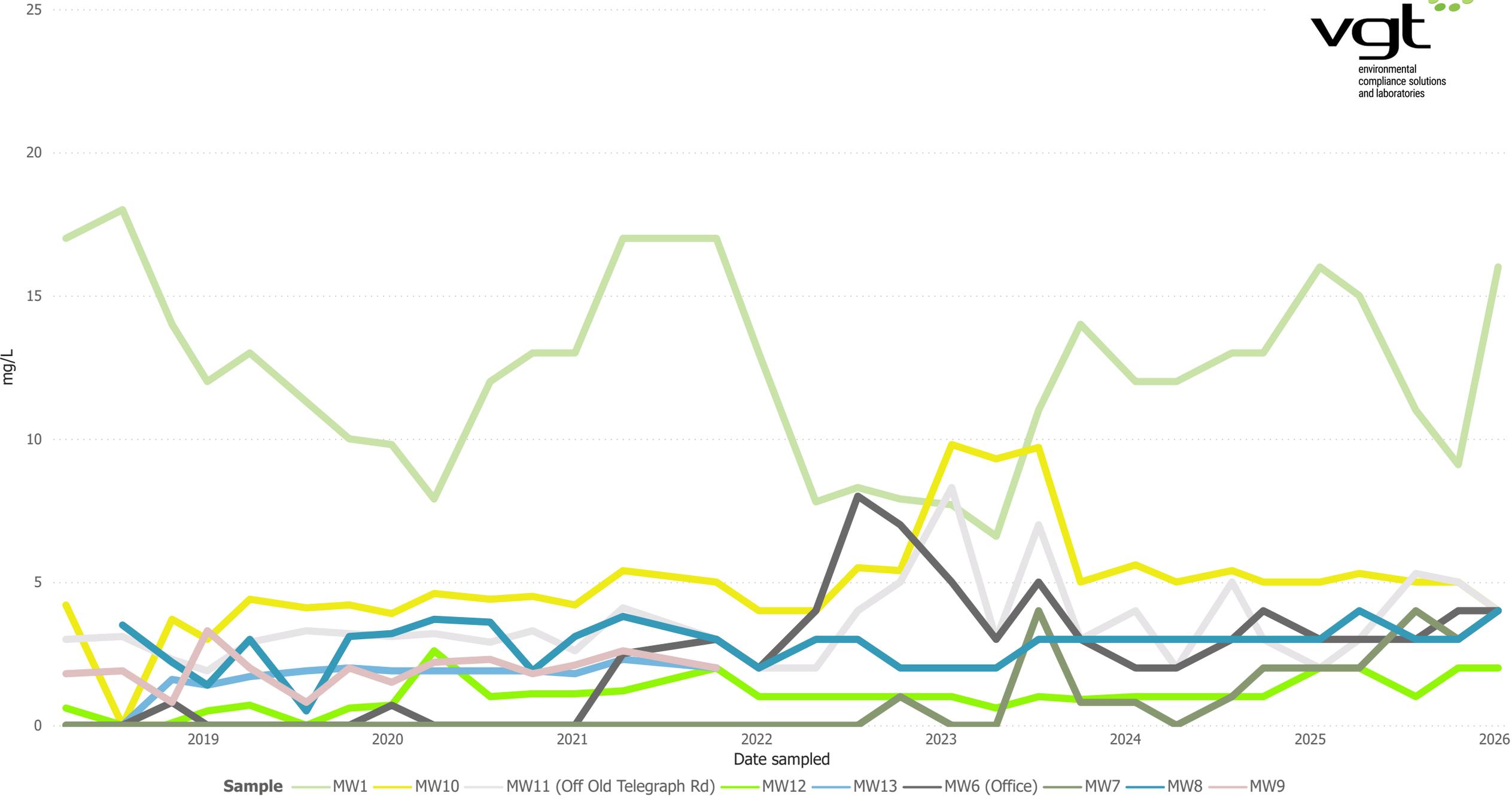
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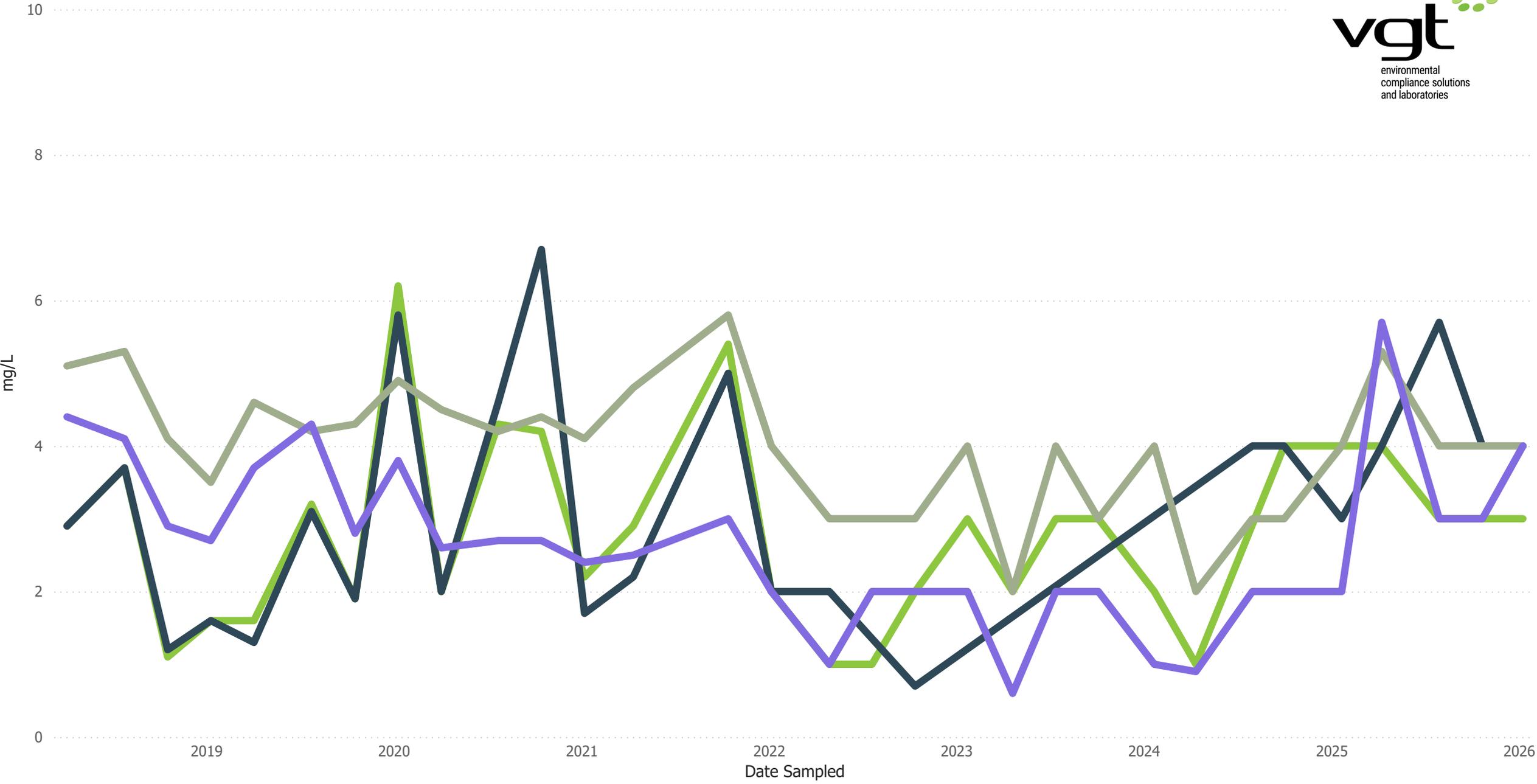
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Magnesium

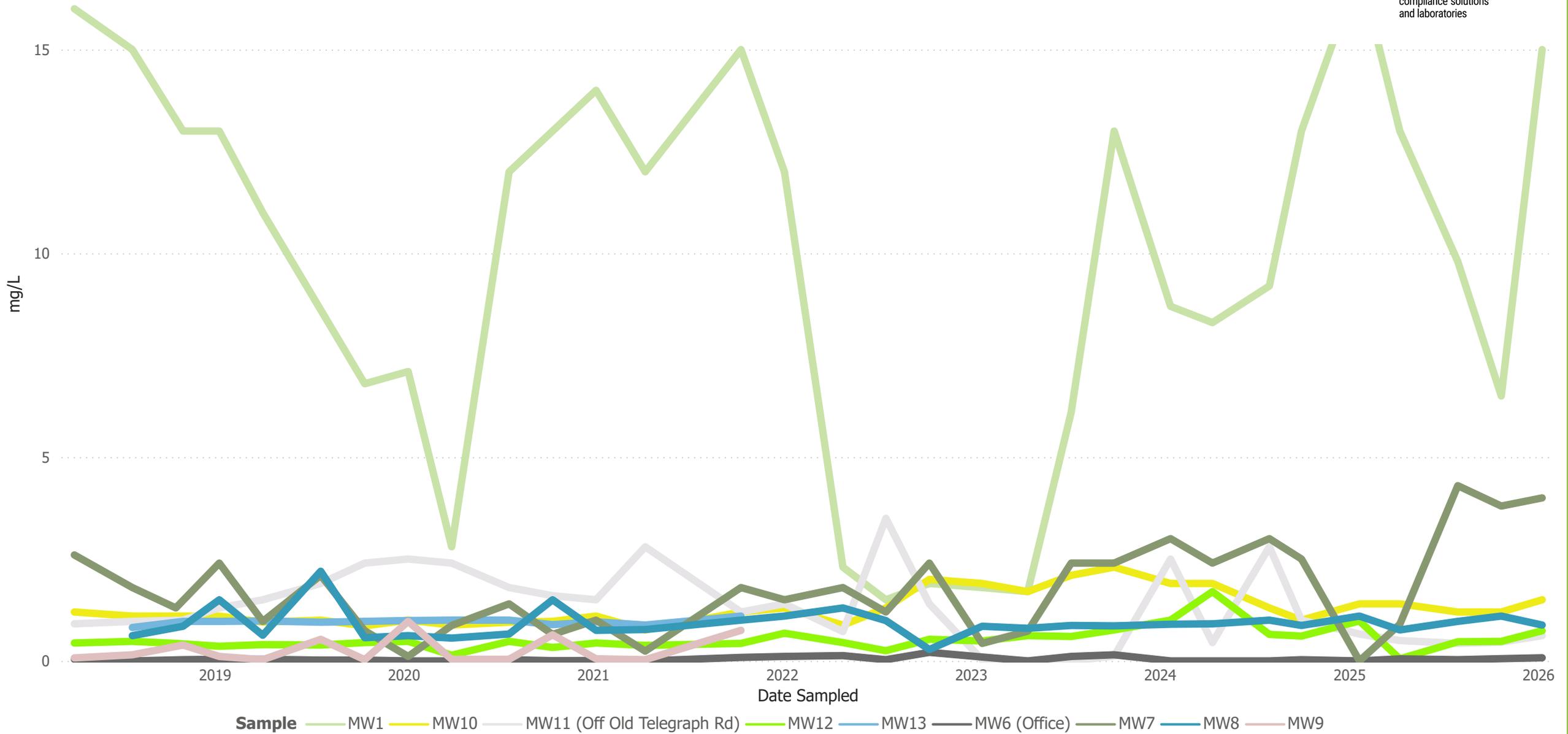


Magnesium

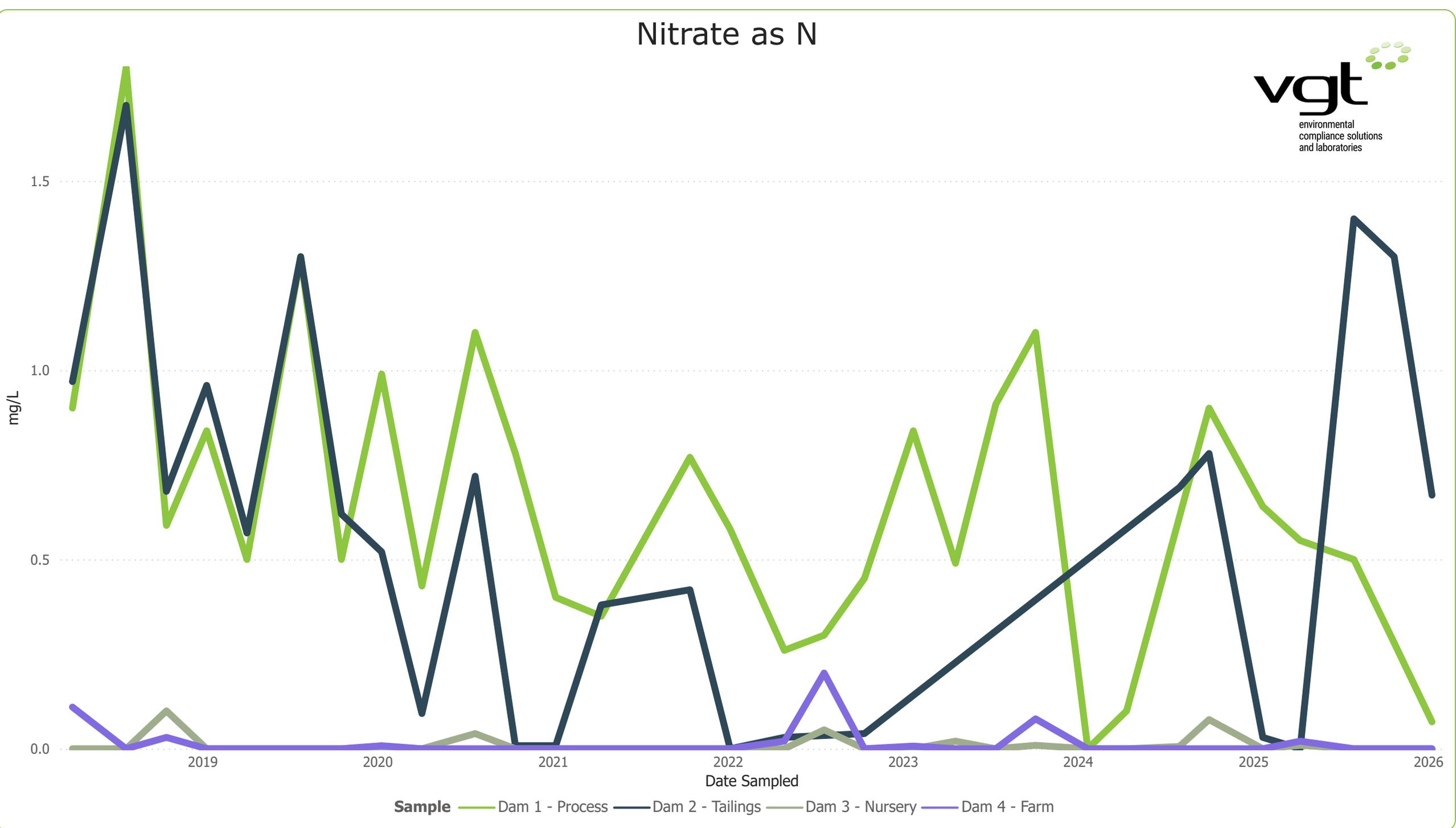


Sample — Dam 1 - Process — Dam 2 - Tailings — Dam 3 - Nursery — Dam 4 - Farm

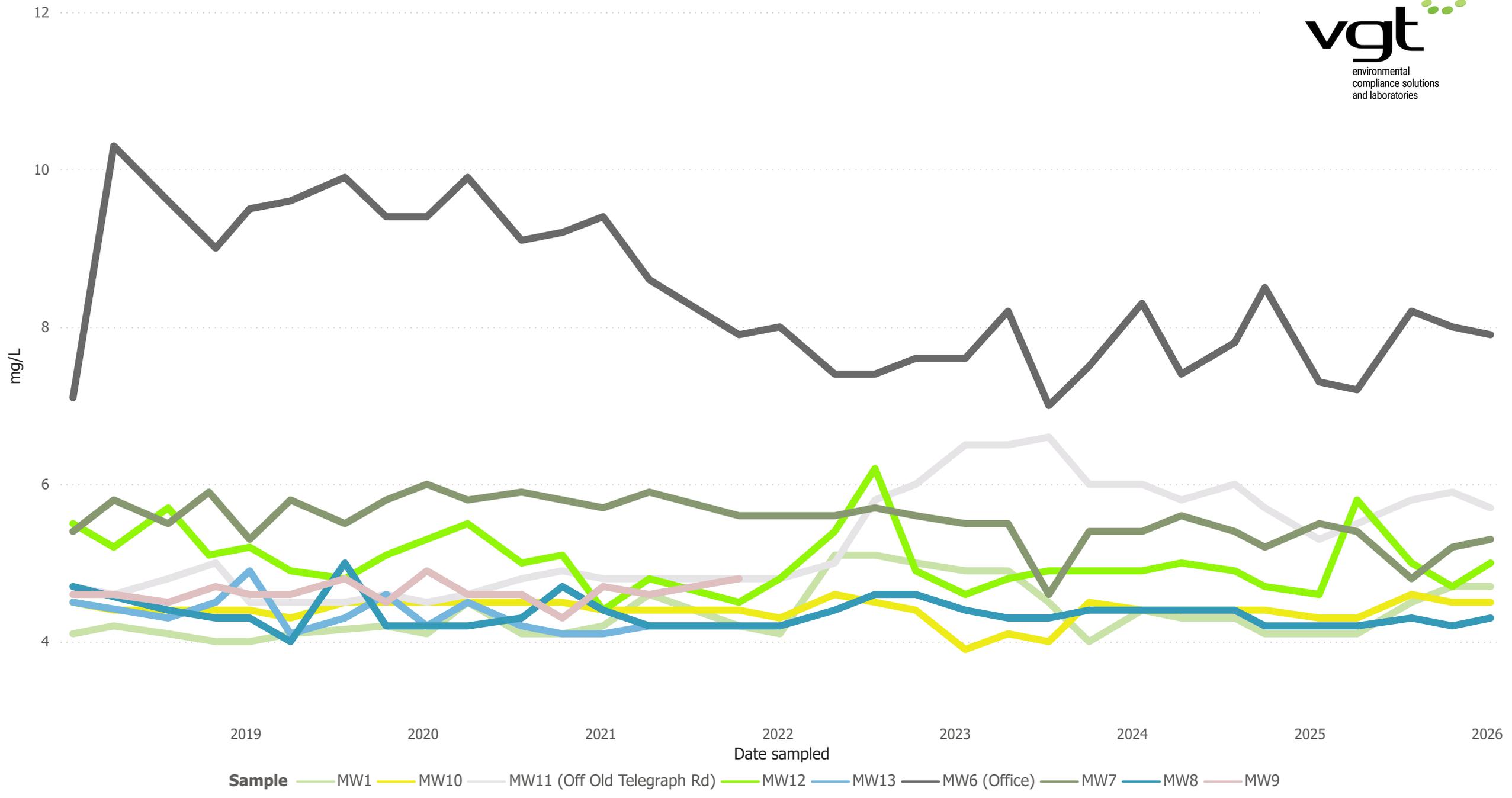
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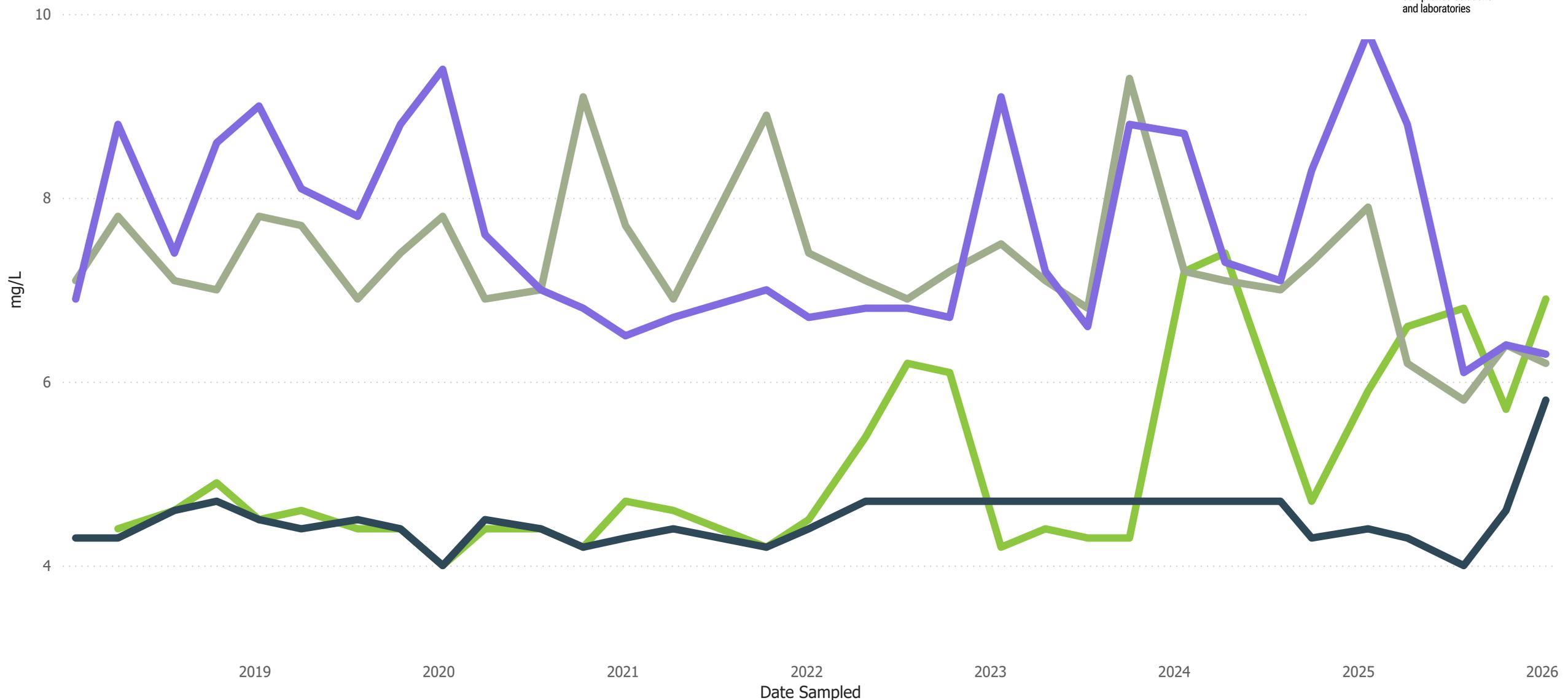
Nitrate as N



pH

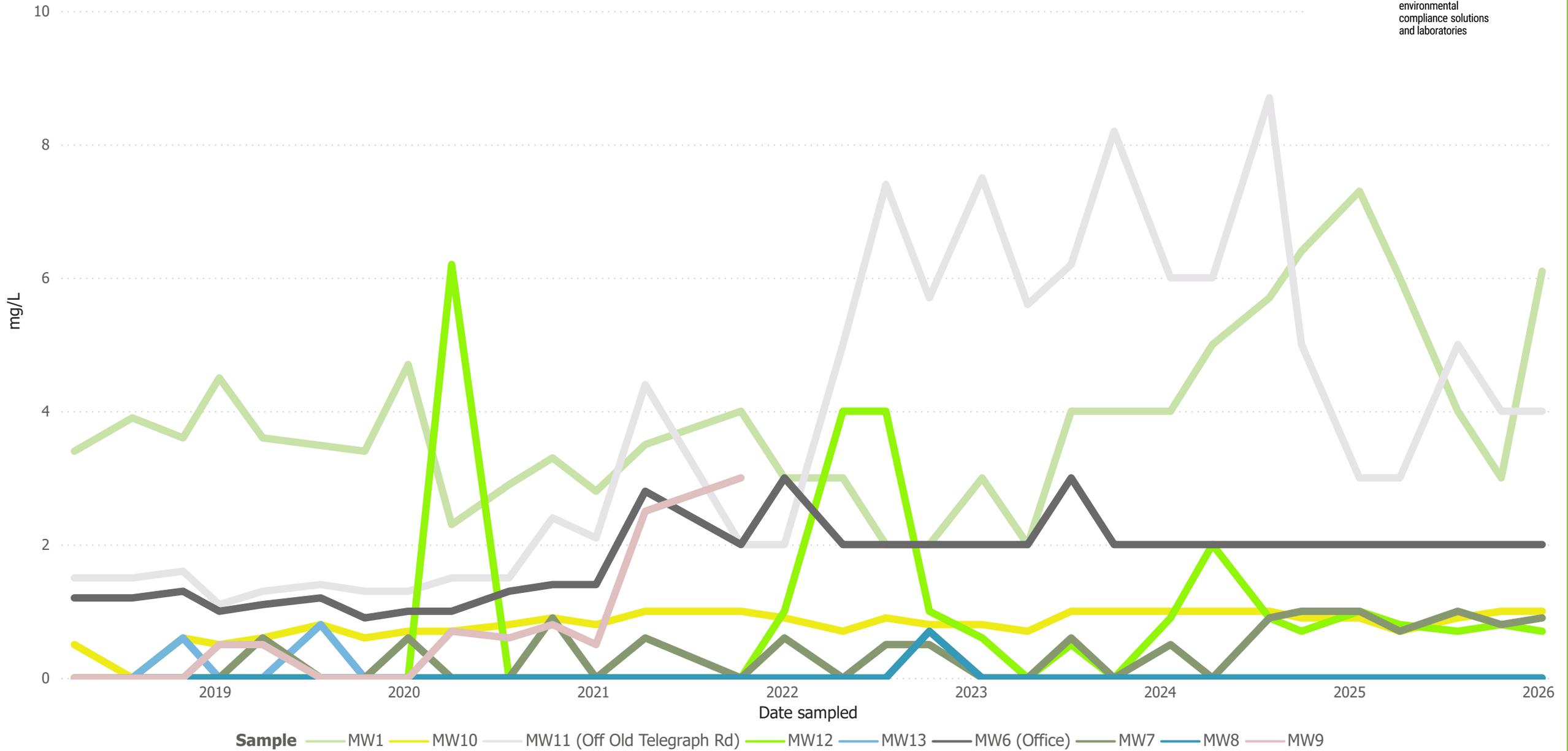


pH

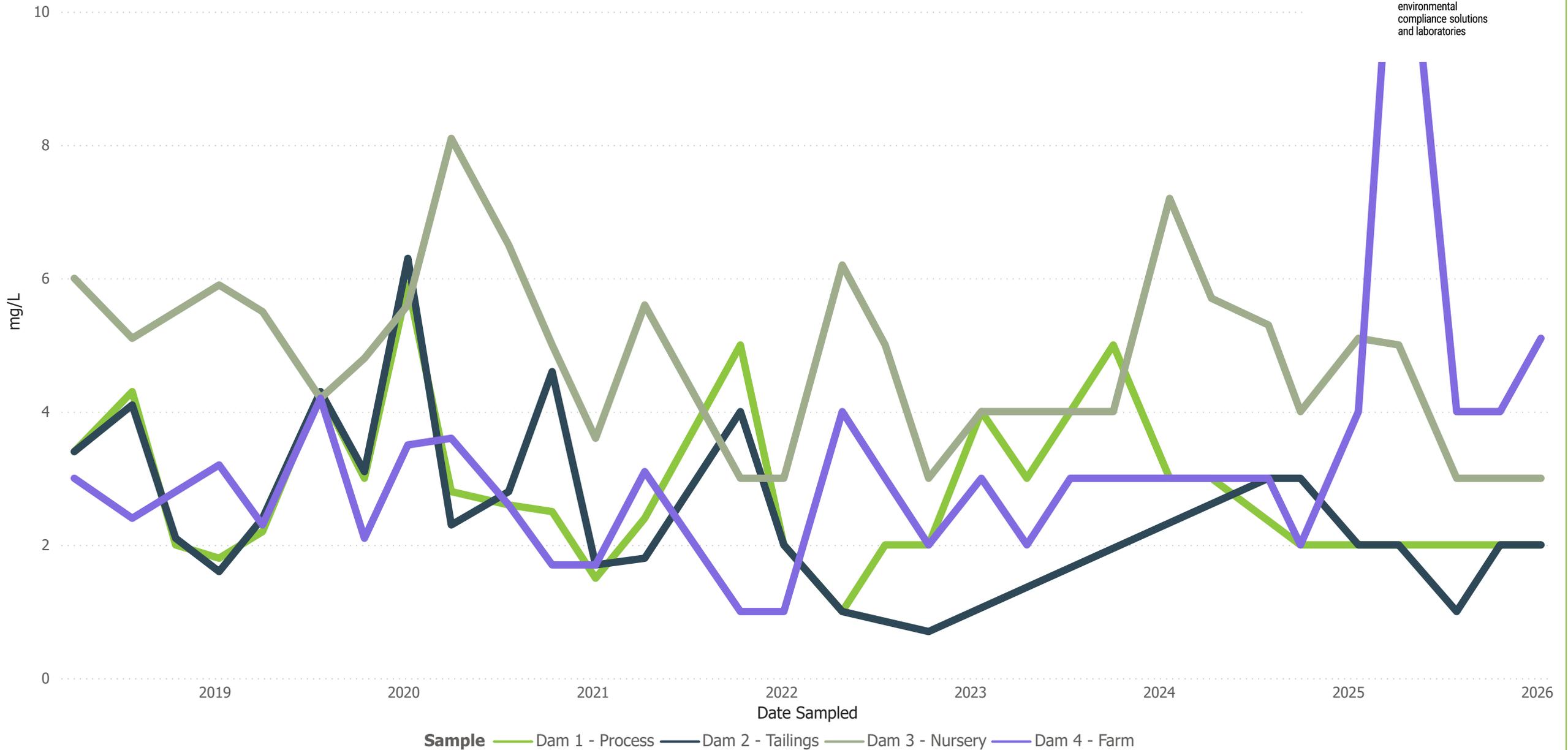


Sample — Dam 1 - Process — Dam 2 - Tailings — Dam 3 - Nursery — Dam 4 - Farm

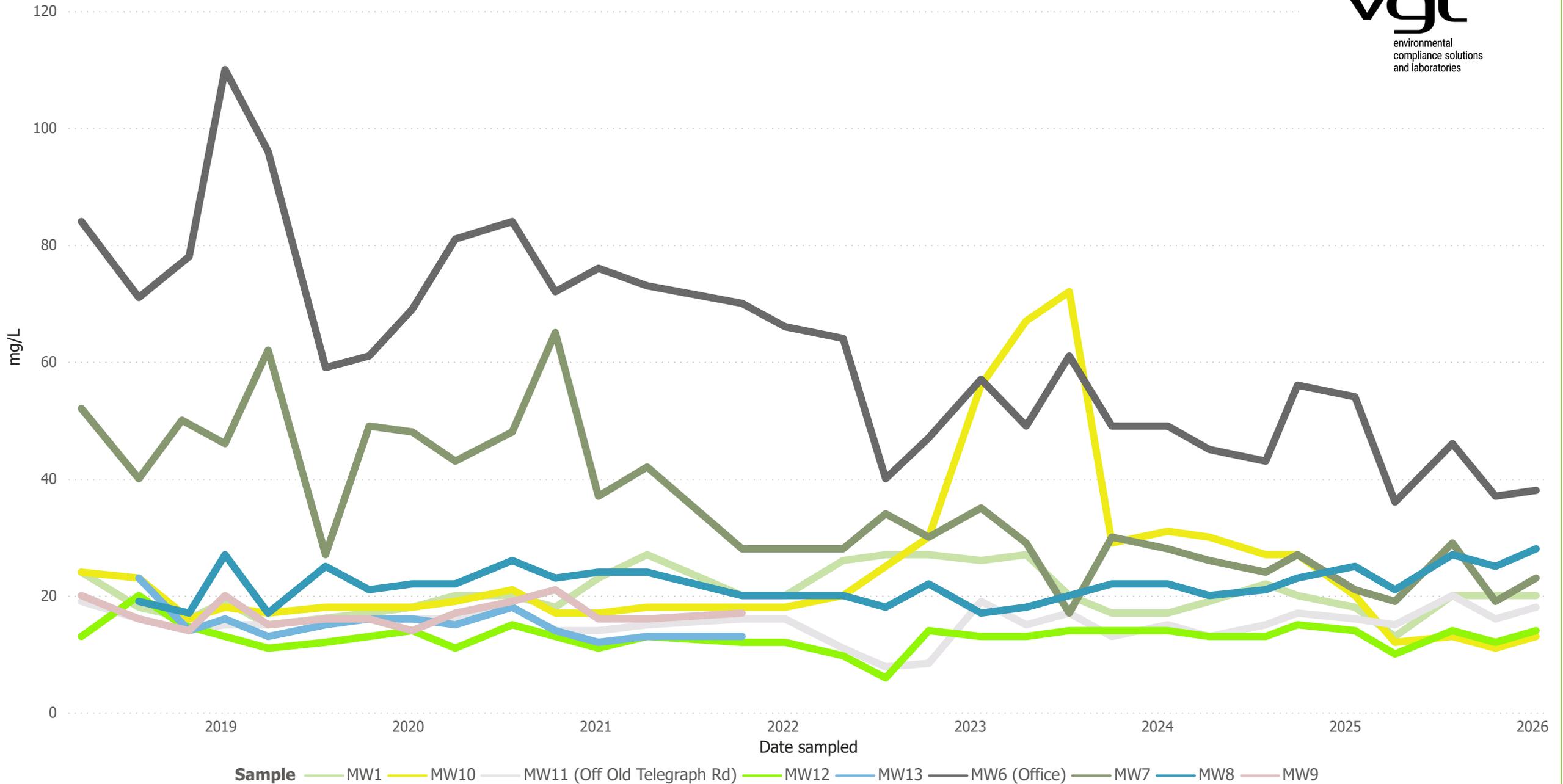
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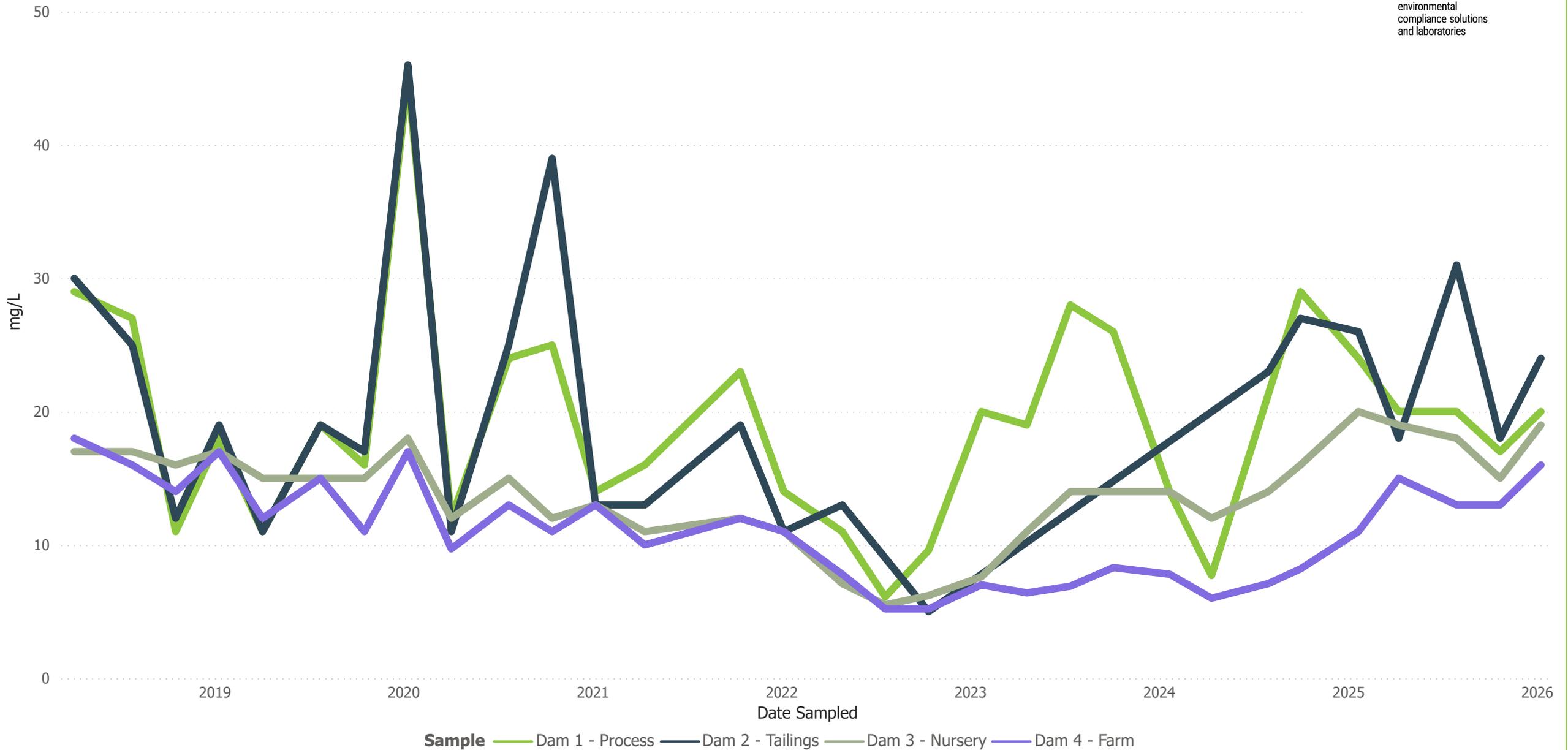
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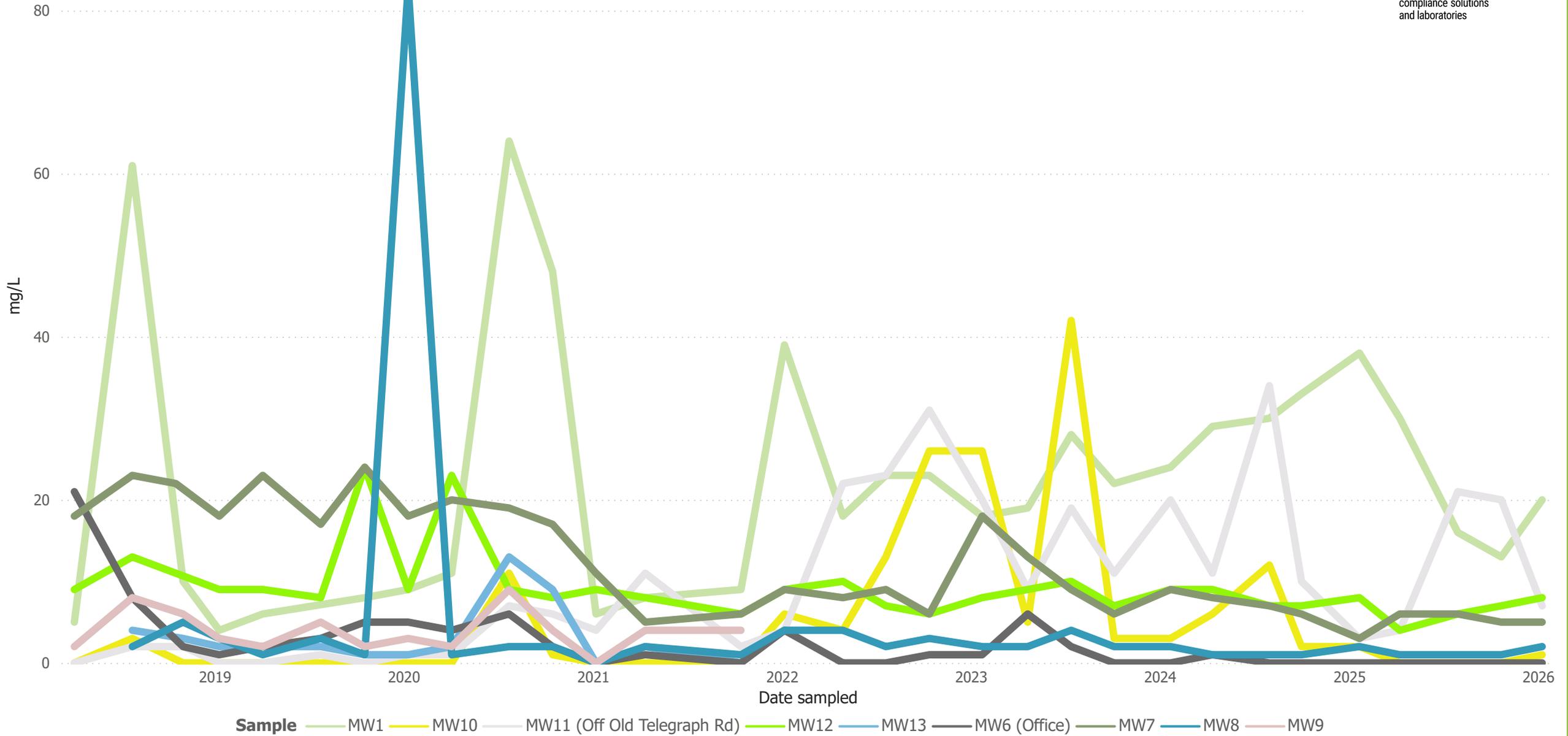
Sodium



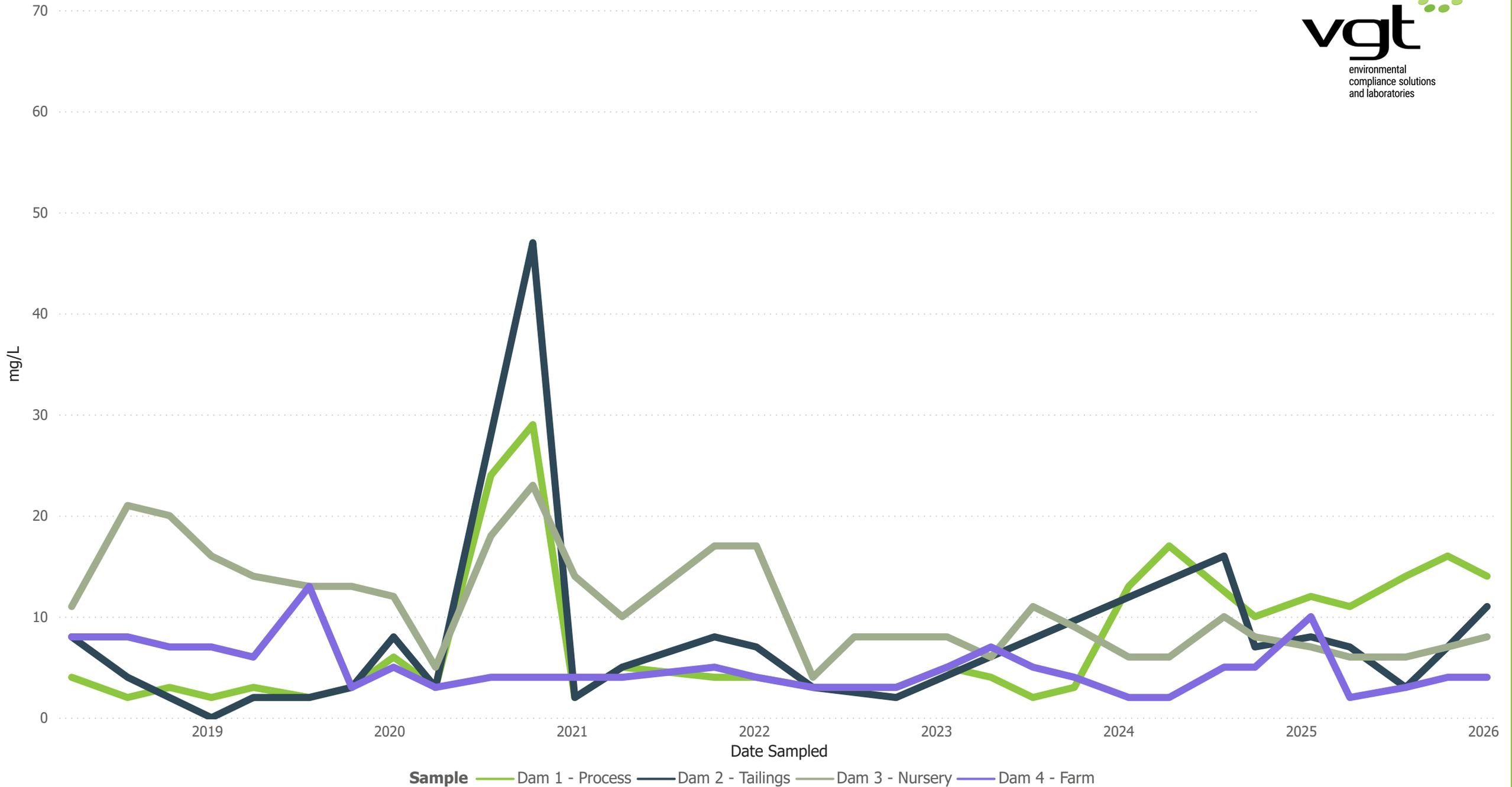
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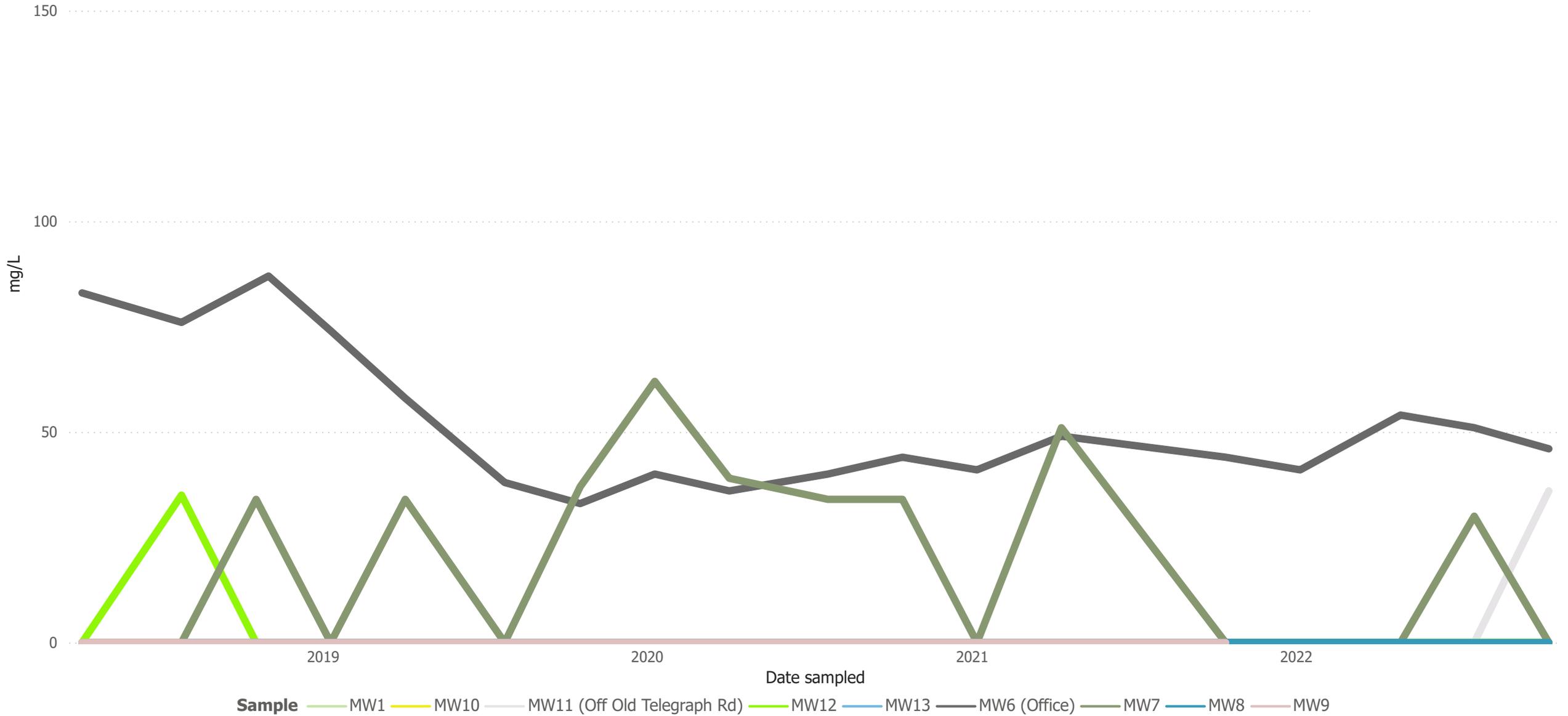
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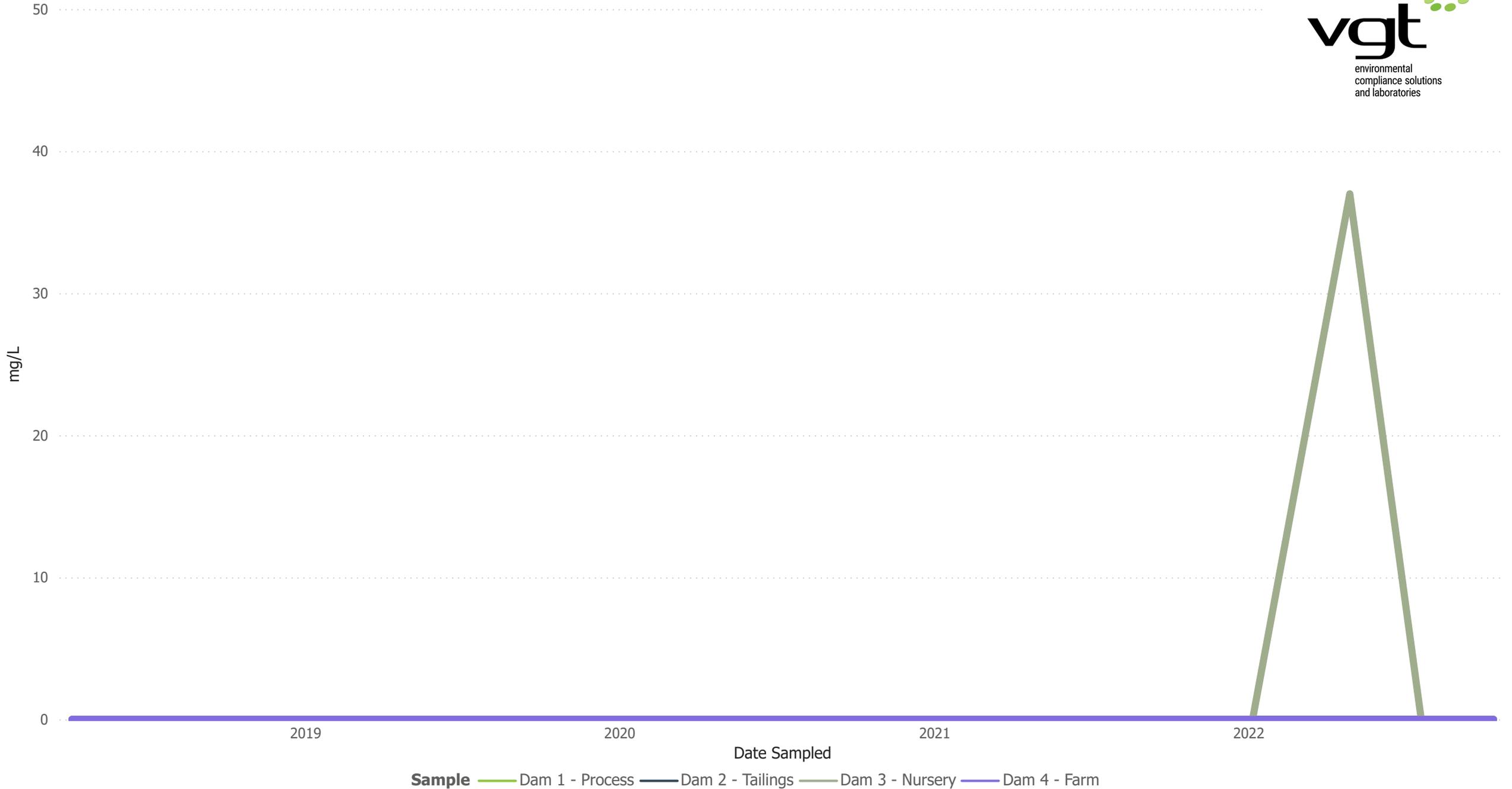
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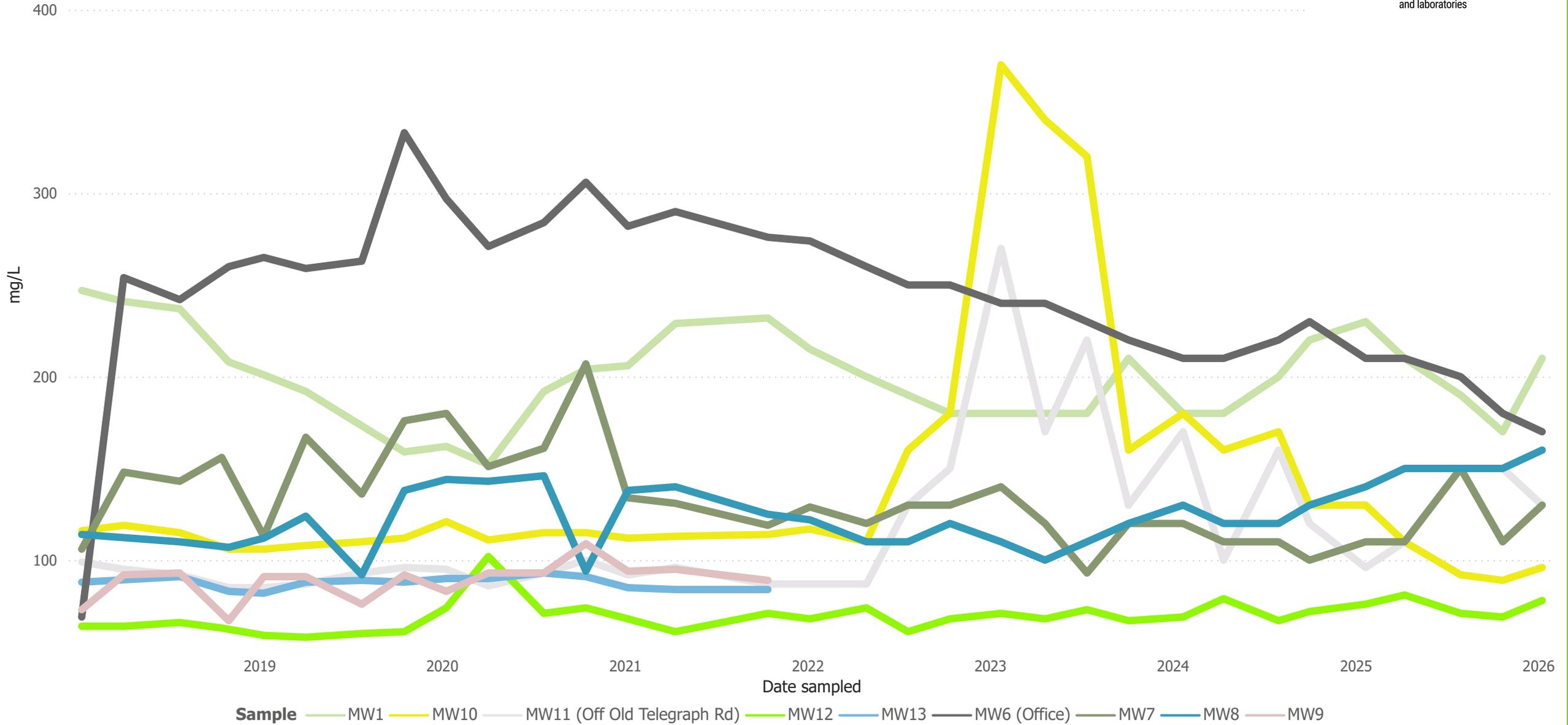
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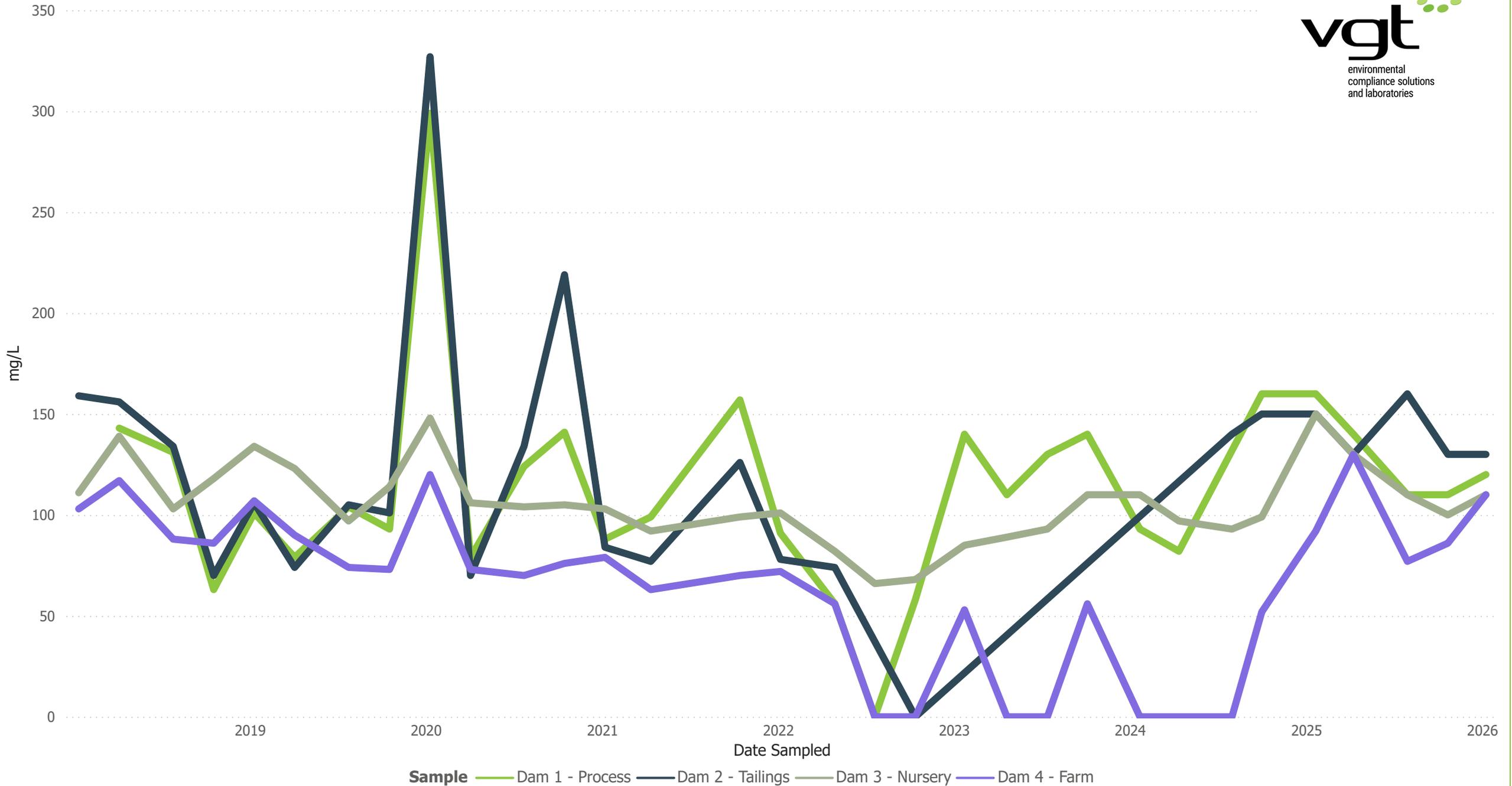
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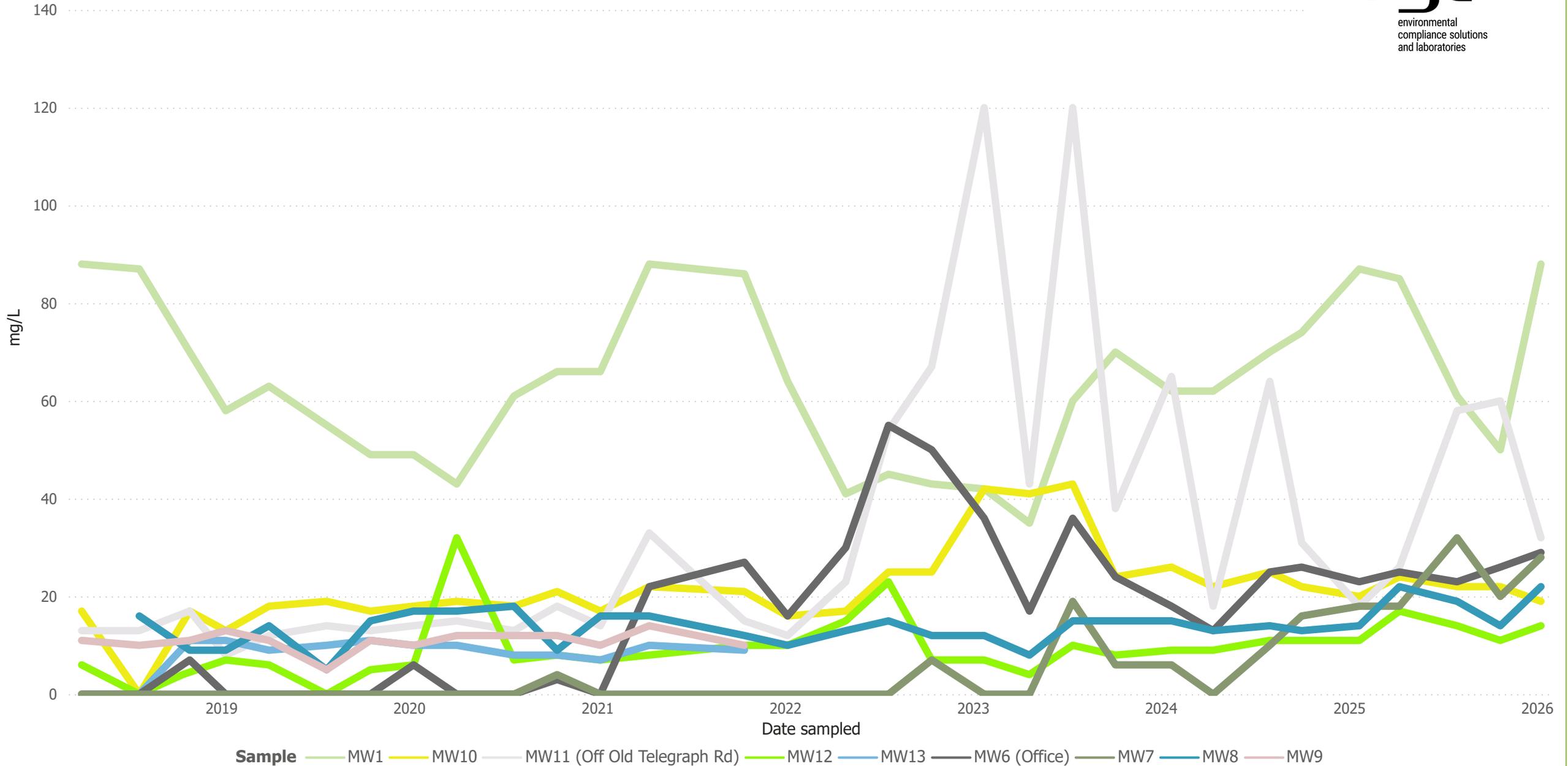
Total Dissolved Solids



Total Dissolved Solids



Total Hardness



Total Hardness

