

Report Period 

6/01/2025

3/02/2025

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

Site Monitoring Locations



Groundwater Levels

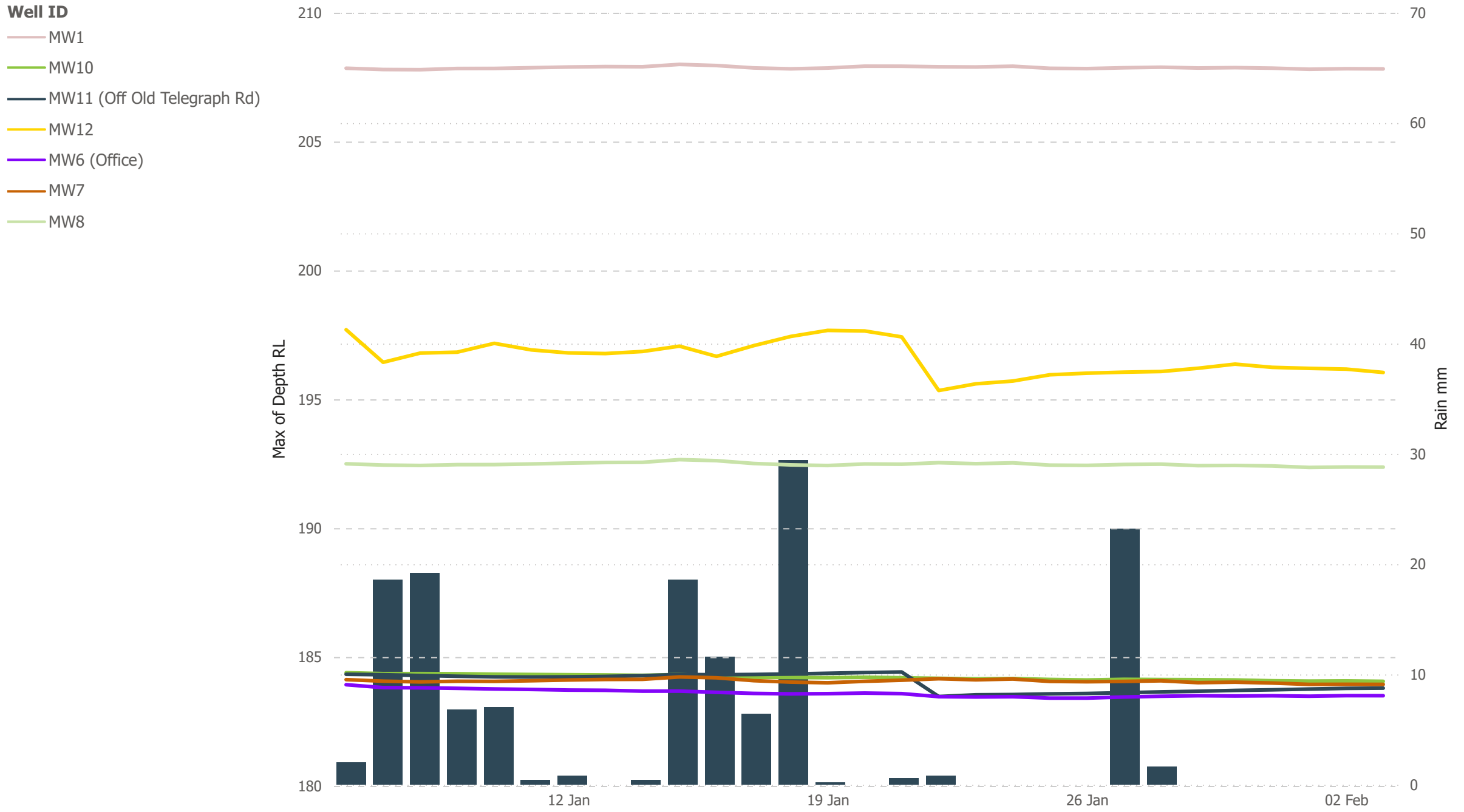
Groundwater levels are currently monitored in nine boreholes located on the site. Groundwater levels are manually measured for depth each month using a groundwater dipper. Data is downloaded from groundwater loggers where present. MW1 logger was installed prior to 2015; the remaining loggers were installed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

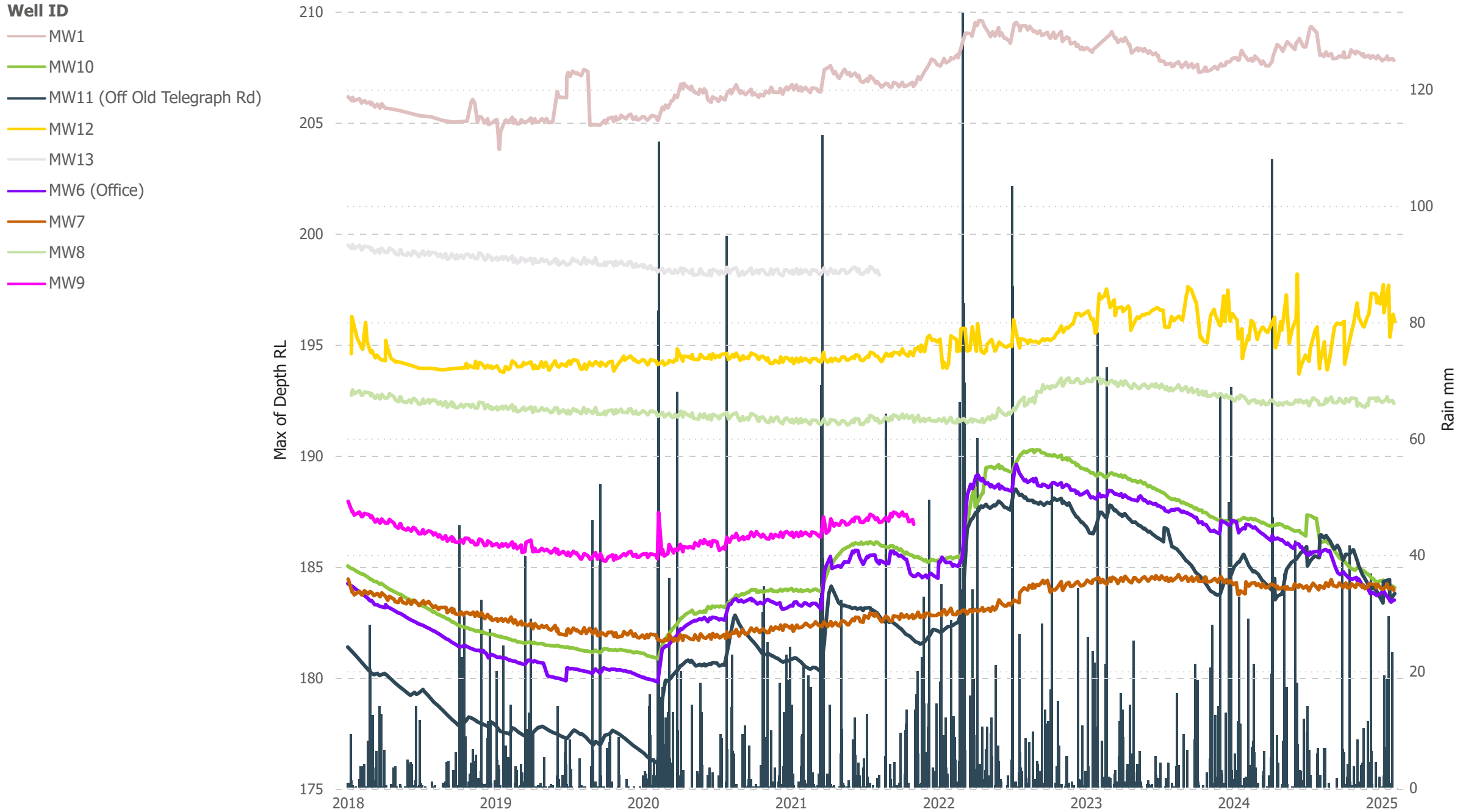
MW1 and MW12 were taken away for repairs during April 2018 and returned in October 2018, hence the gap in reporting on the following graphs.

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 2: All Groundwater Depths with Rainfall this month

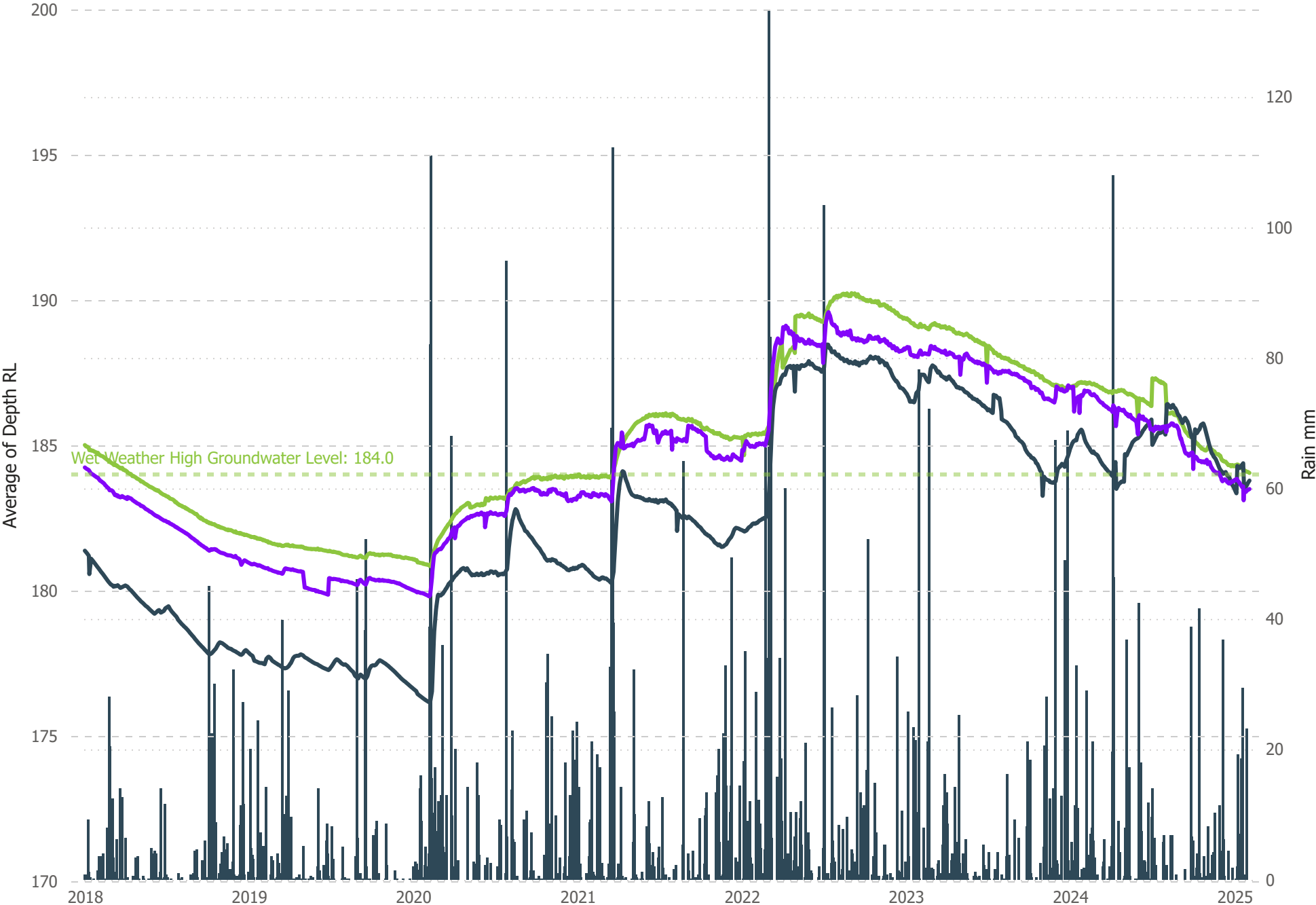


Graph 1: All Groundwater Depths with Rainfall from 1/1/2017

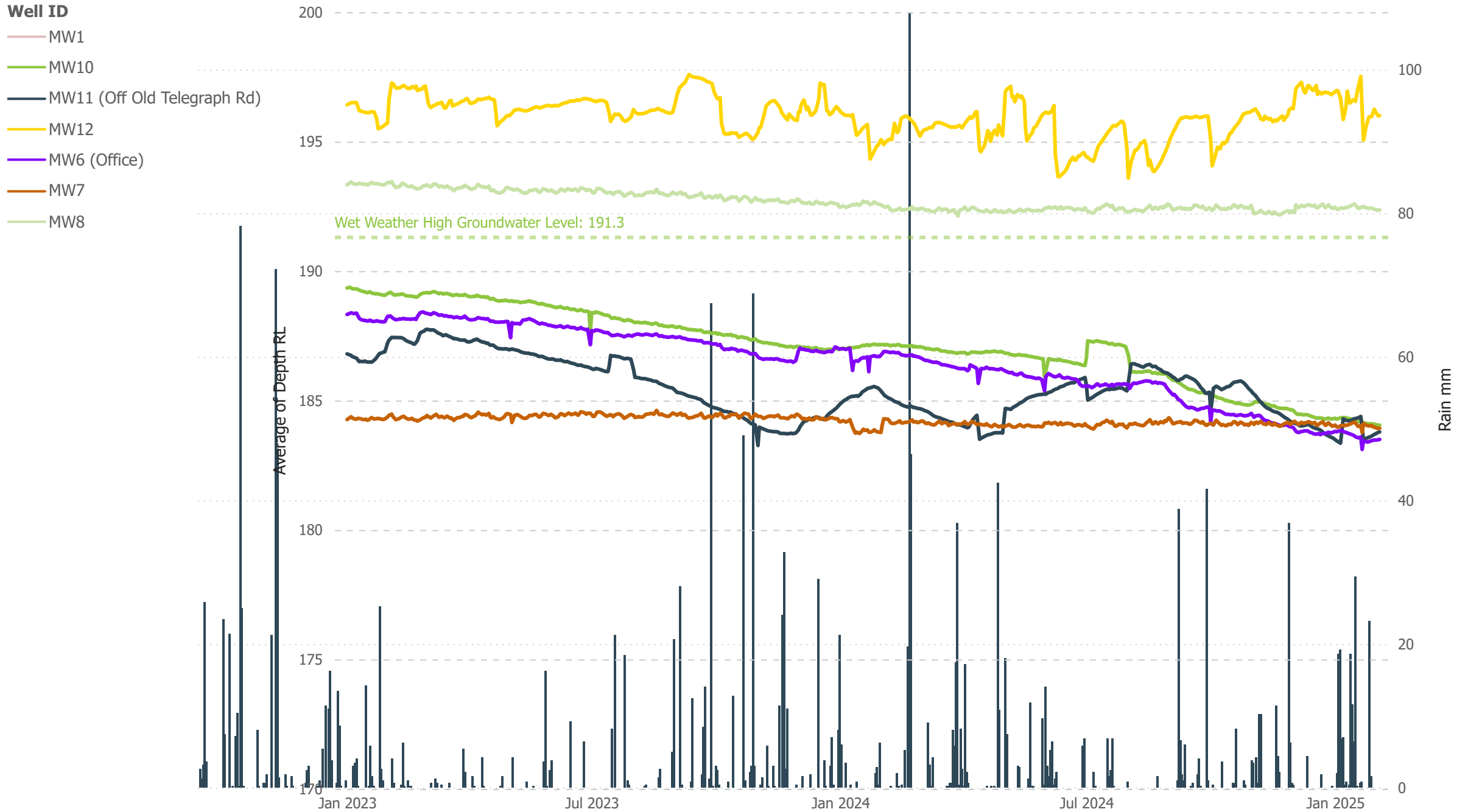


Graph 3: All Groundwater Depths with Rainfall in Maroota Sand

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

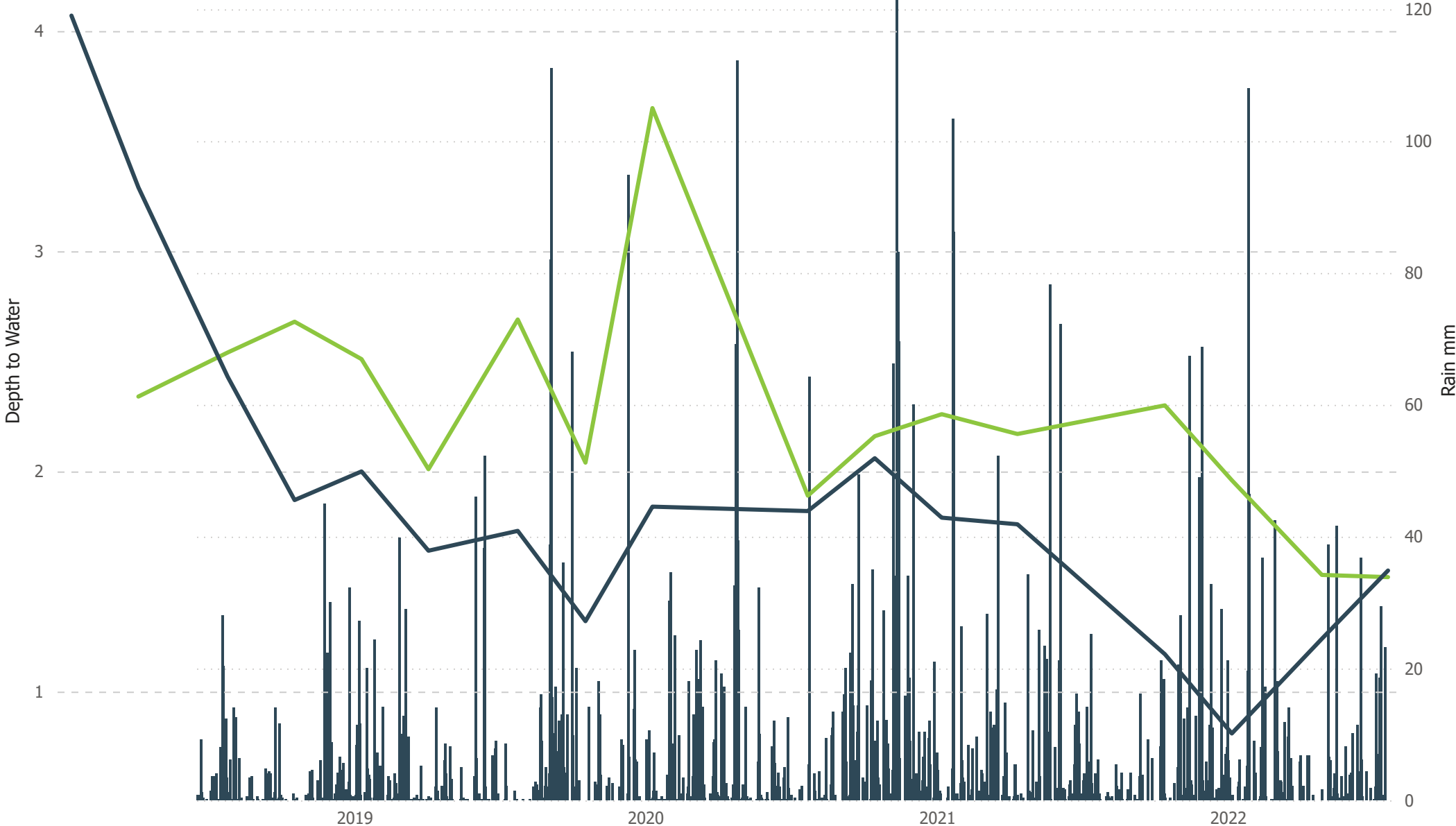


Graph 4: All Groundwater Depths with Rainfall in Hawkesbury Sandstone



Graph 5: Surface Water Depths with Rainfall

Sample
— Dam 1 - Process
— Dam 2 - Tailings



Weather Station Monitoring

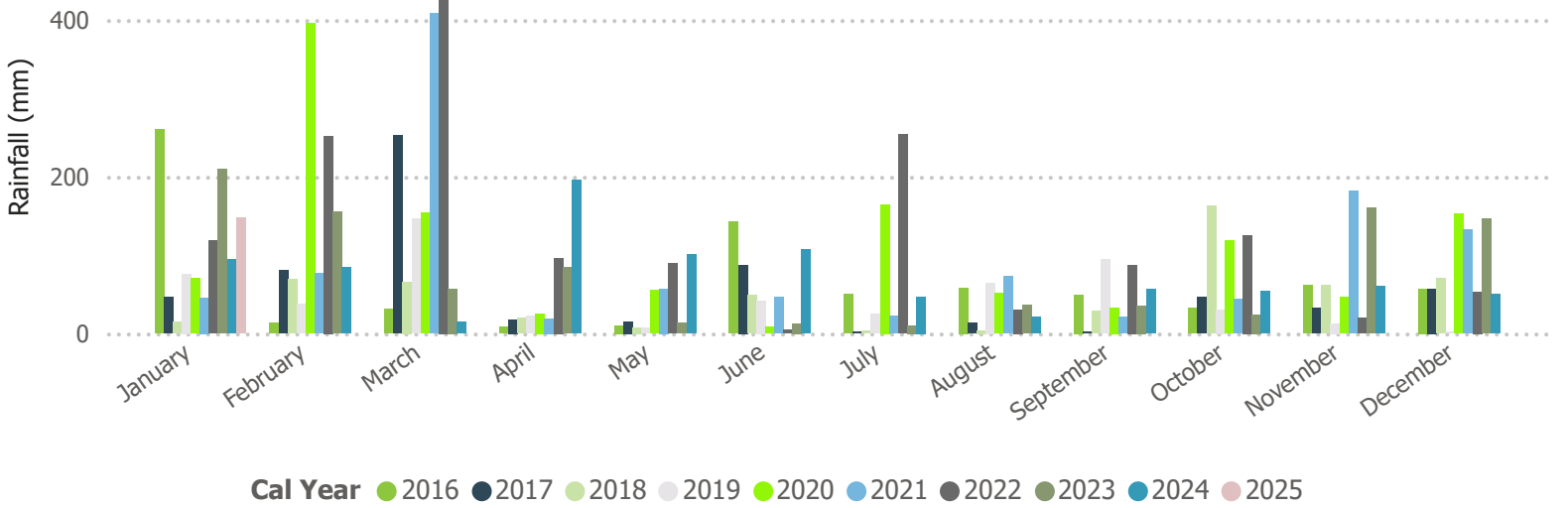
Due to gauge malfunctions, rainfall was not recorded in 2020 until a new weather station was installed onsite 29th May 2020. Where available, daily rainfall received in the interim was been sourced from the Bureau of Meteorology. Temperature monitoring during that period also shows gaps in the data.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

Weather Trends

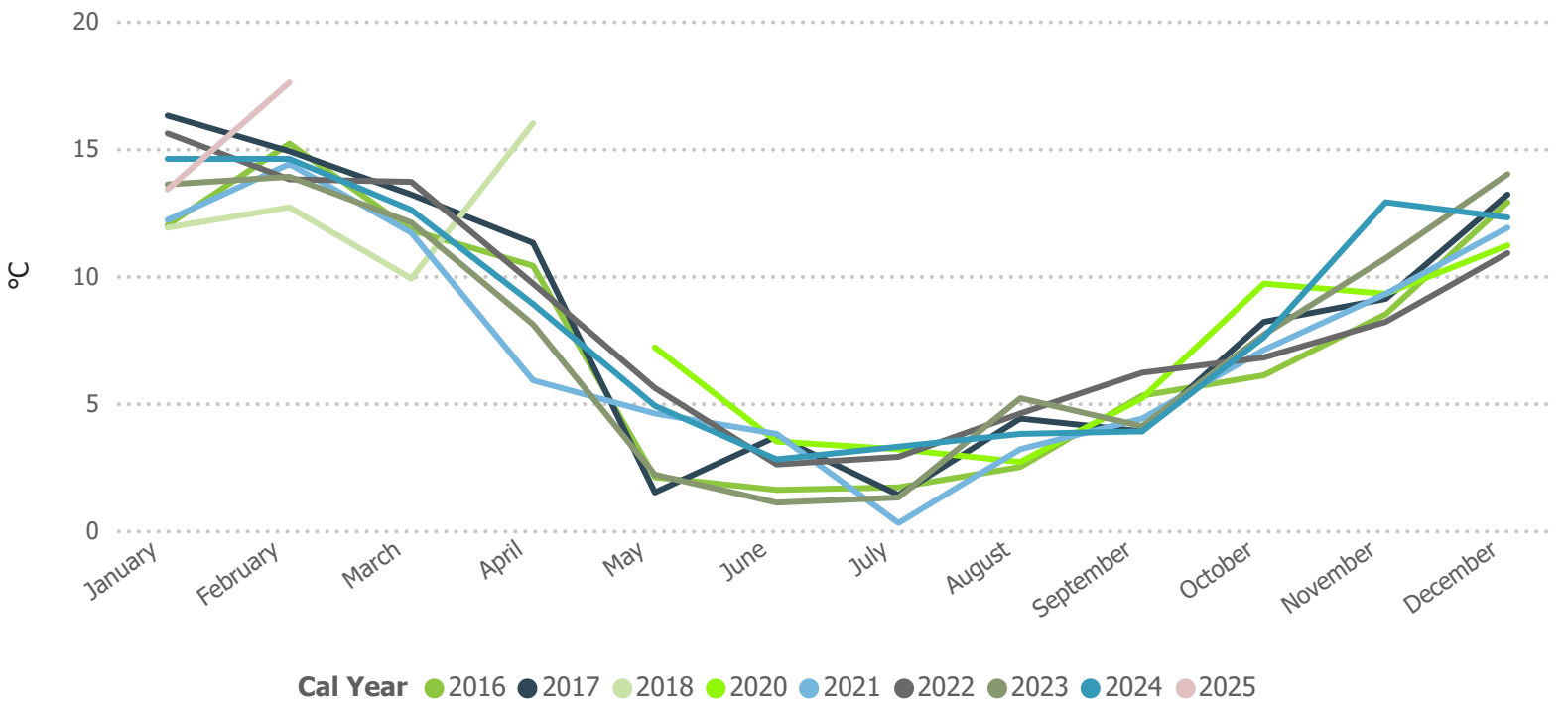
1/01/2016

28/02/2025

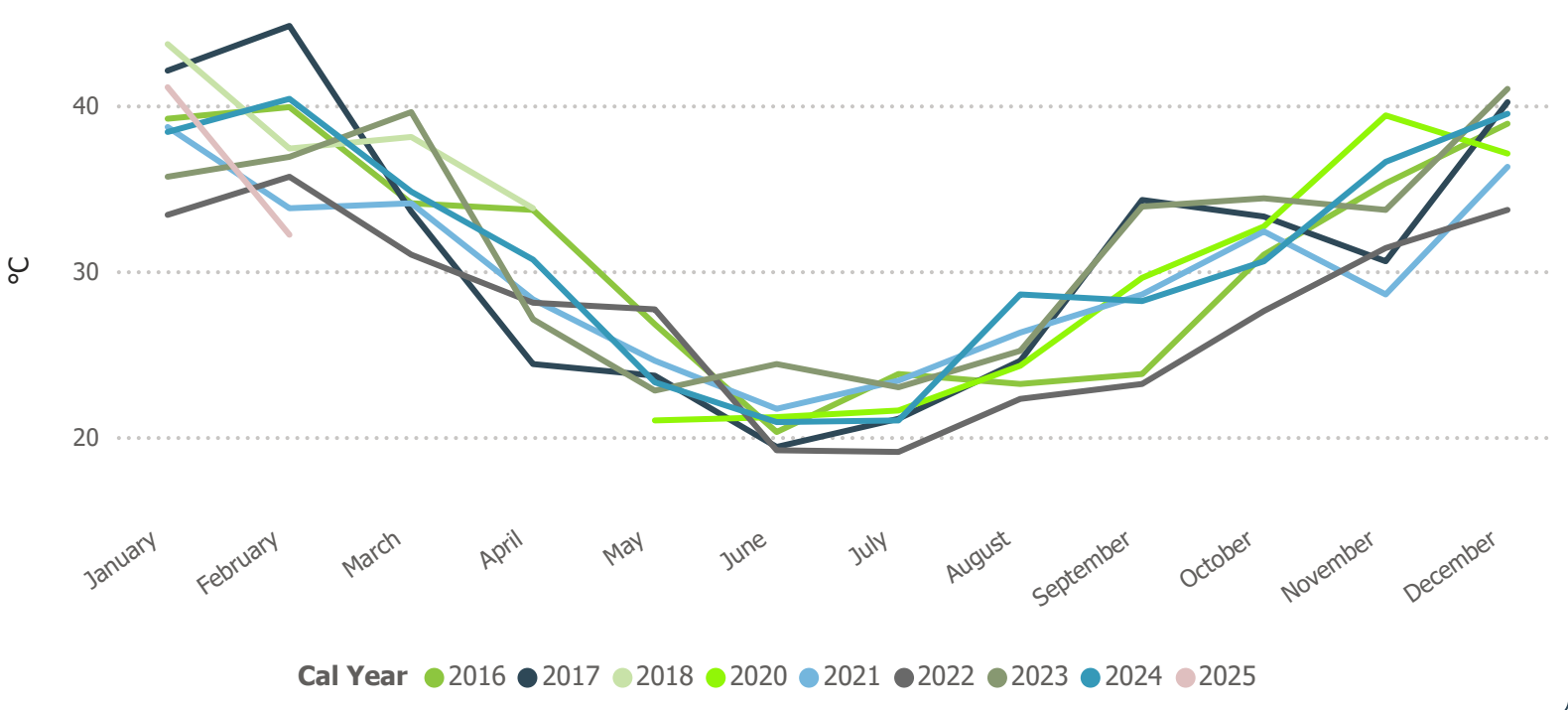
Precipitation



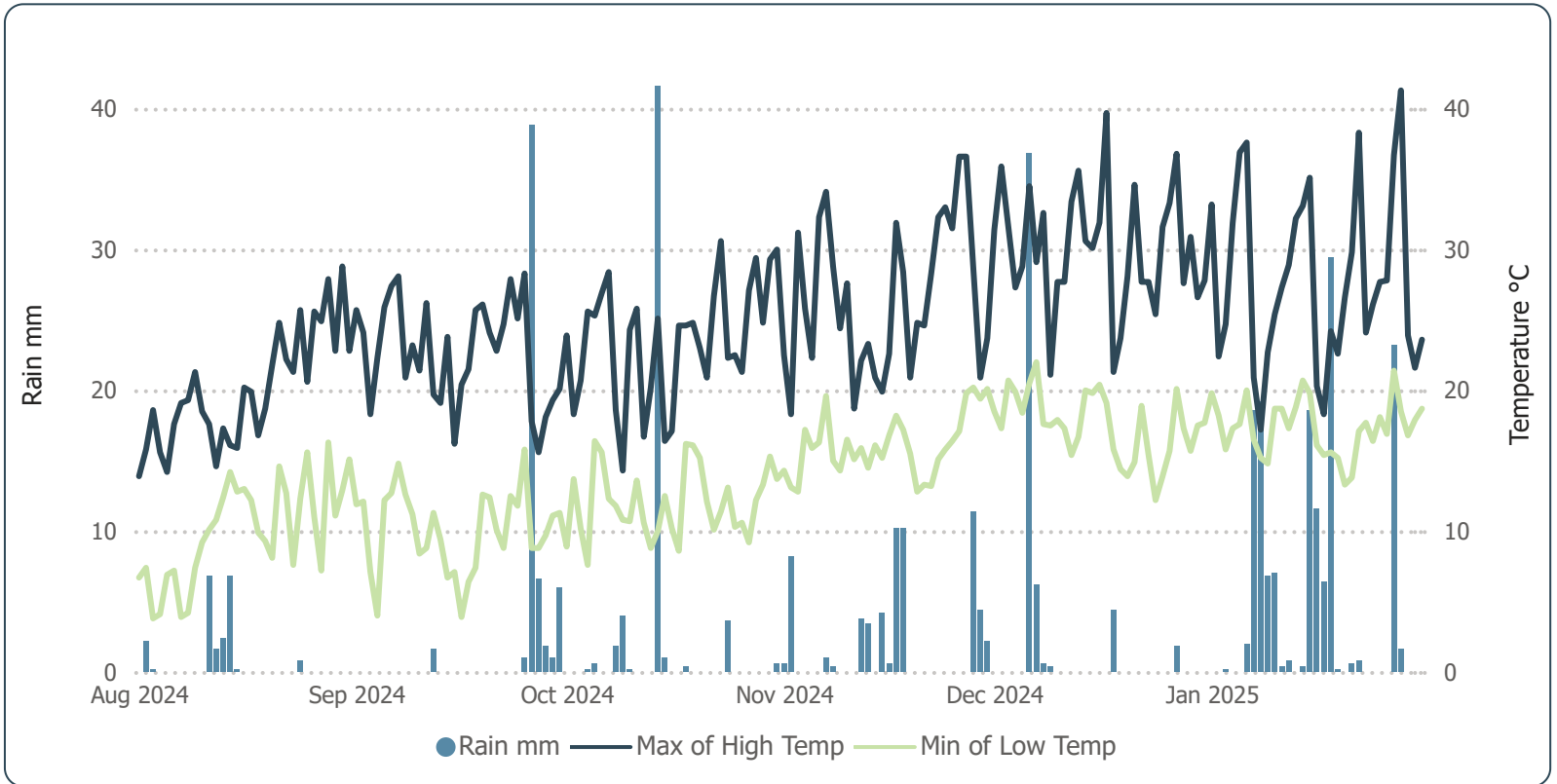
Minimum Temperature



Maximum Temperature



Weather Detail for last 6 months



Precipitation mm

Cal Year	January	August	September	October	November	December	Total
2024		21.0	56.8	54.0	60.6	50.2	242.6
2025	147.8						147.8
Total	147.8	21.0	56.8	54.0	60.6	50.2	390.4

Minimum Temperature °C

Cal Year	January	August	September	October	November	December	Total
2024		3.8	3.9	7.6	12.9	12.3	3.8
2025	13.4						13.4
Total	13.4	3.8	3.9	7.6	12.9	12.3	3.8

Average Temperature °C

Cal Year	January	August	September	October	November	December	Total
2024		14.6	16.0	17.0	20.7	22.8	18.2
2025	21.5						21.5
Total	21.5	14.6	16.0	17.0	20.7	22.8	18.8

Maximum Temperature °C

Cal Year	January	August	September	October	November	December	Total
2024		28.6	28.2	30.6	36.6	39.5	39.5
2025	41.1						41.1
Total	41.1	28.6	28.2	30.6	36.6	39.5	41.1

Plan of: Annual Review & Compliance Report 2022 for Roberts Road Maroota Sand Quarry - Wet Weather High Groundwater Level Maroota Sands (2022)
 Figure: FIVE-A
 Version/Date: V1 30/03/2023
 Our Ref: 12498_HMA_AR2022_Q007_V1_F5A

Location: Maroota Quarry, Roberts Road, Maroota, NSW
 Council: Hills Shire Council
 Tenure: Not Applicable
 Client: Hodgson Quarries & Plant Pty Ltd

Source: nearmap - Image Date 23/06/2022 Zone MGA 56
 Survey: Fyfe Quarry Contours 24/02/2022 NSW Spatial Services ELVISDEM Surrounding Contours Dated May 2017
 Projection: GDA2020/MGA Zone 56 EPSG:7856
 Contour Interval: 0.5m

Plan By: SK/JD
 Project Manager: LT



This figure may be based on third party data which has not been verified by VGT and may not be to scale. Unless expressly agreed otherwise, this figure is intended as a guide only and VGT does not warrant its accuracy.

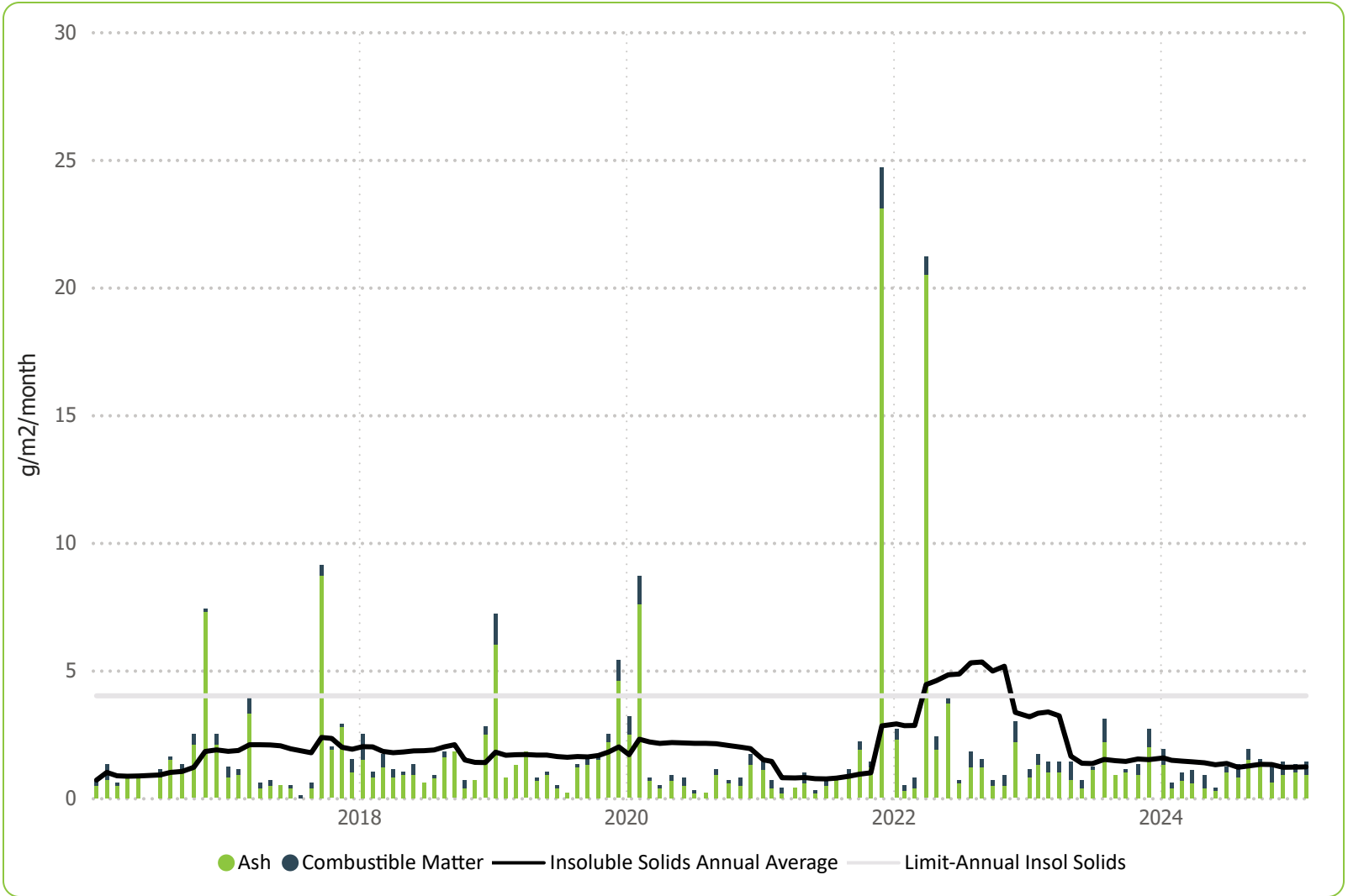
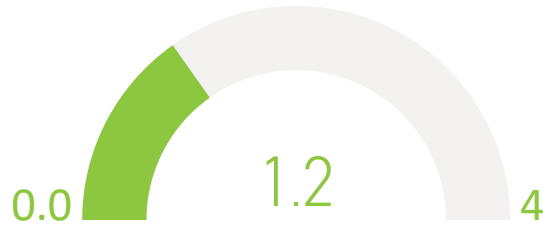


- Legend**
- Property Boundary
 - Edge of Saturated Maroota Sands
 - Contours of Wet Weather High GW Level (mRL)
 - Groundwater Monitoring Well Location
 - Spot Heights 2023

Depositional Dust and Particulate Matter Monitoring

Depositional Dusts last 12 months

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

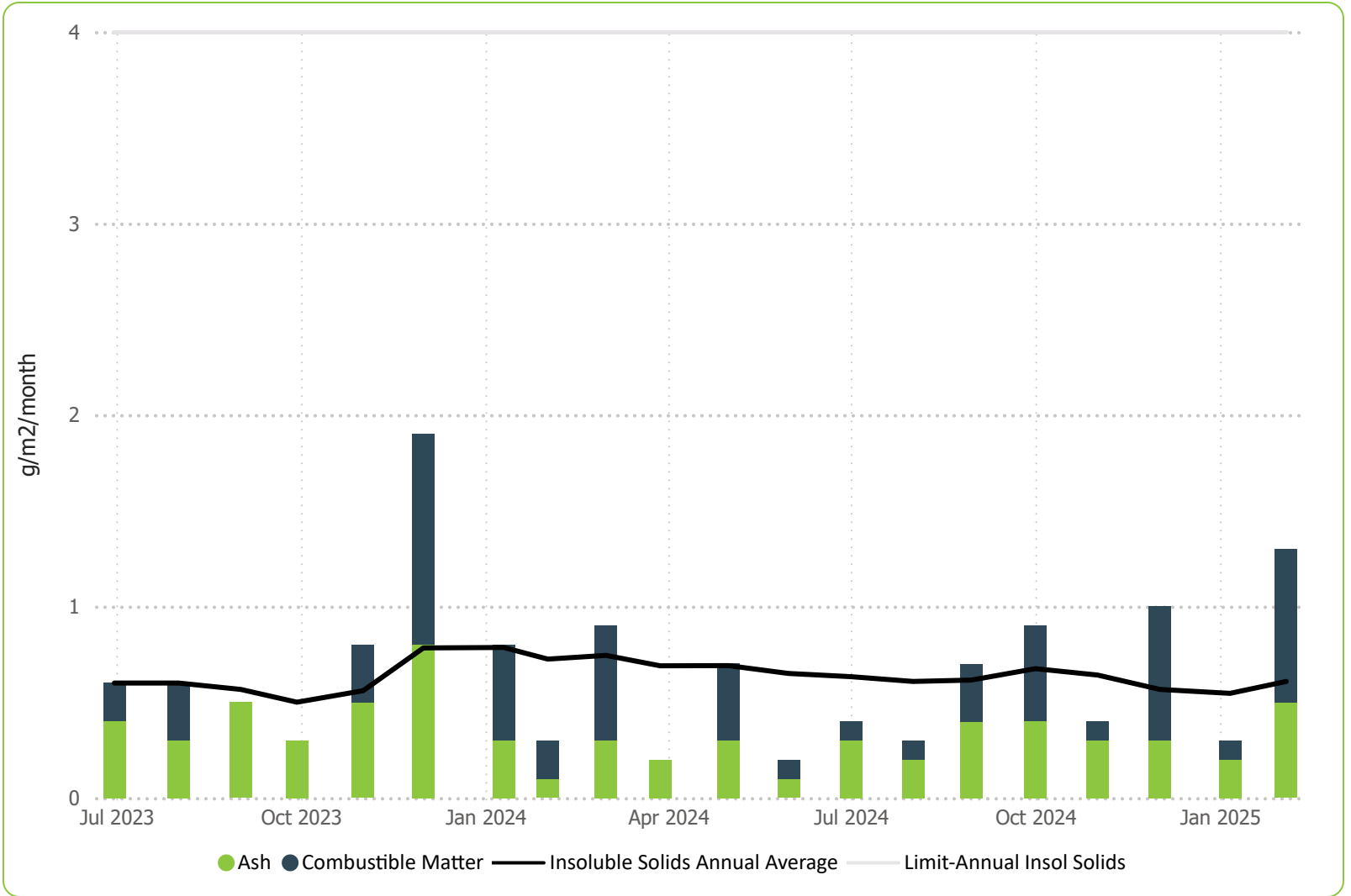


Date On	Comments	Date Sampled	Days On	Insoluble Solids	Ash	Combustible Matter	Calculated Rain
1/02/24		1/3/24	30	1.0	0.7	0.3	82
1/03/24		28/3/24	29	1.1	0.6	0.5	18
28/03/24		1/5/24	34	0.9	0.4	0.5	115
1/05/24		31/5/24	31	0.4	0.3	0.1	107
31/05/24		1/7/24	31	1.2	1.0	0.2	109
1/07/24		1/8/24	31	1.3	0.8	0.5	48
1/08/24		30/8/24	29	1.9	1.5	0.4	26
30/08/24		1/10/24	32	1.5	1.4	0.1	62
1/10/24		1/11/24	31	1.2	0.6	0.6	58
1/11/24		2/12/24	31	1.4	0.9	0.5	65
2/12/24		6/1/25	35	1.3	1.0	0.3	59
6/01/25	Bottle full of water	3/2/25	28	1.4	0.9	0.5	114

Depositional Dusts last 12 months

D2a North East Corner ▼

Insoluble Solids Annual Average g/m²/month



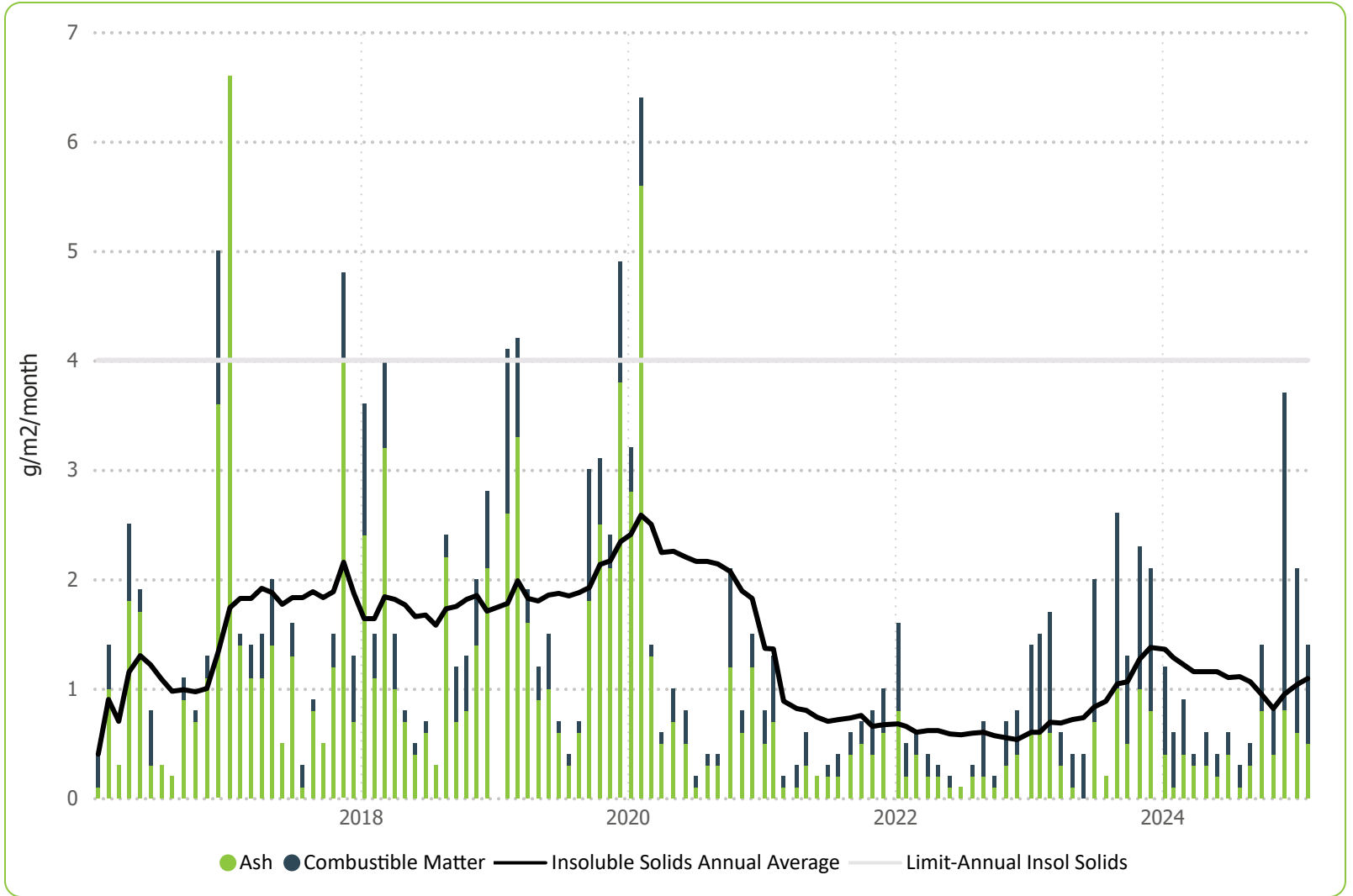
Date On	Comments	Date Sampled	Days On	Insoluble Solids	Ash	Combustible Matter	Calculated Rain
10/01/24		1/2/24	22	0.3	0.1	0.2	72
1/02/24		1/3/24	30	0.9	0.3	0.6	69
1/03/24		28/3/24	29	0.2	0.2	0.0	9
28/03/24		1/5/24	34	0.7	0.3	0.4	114
1/05/24		31/5/24	31	0.2	0.1	0.1	101
31/05/24		1/7/24	31	0.4	0.3	0.1	99
1/07/24		1/8/24	31	0.3	0.2	0.1	38
1/08/24		30/8/24	29	0.7	0.4	0.3	13
30/08/24		1/10/24	32	0.9	0.4	0.5	58
1/10/24		1/11/24	31	0.4	0.3	0.1	44
1/11/24		2/12/24	31	1.0	0.3	0.7	44
2/12/24		6/1/25	35	0.3	0.2	0.1	24
6/01/25	Bottle full of water	3/2/25	28	1.3	0.5	0.8	114

Depositional Dusts last 12 months

D3A Bundwall



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

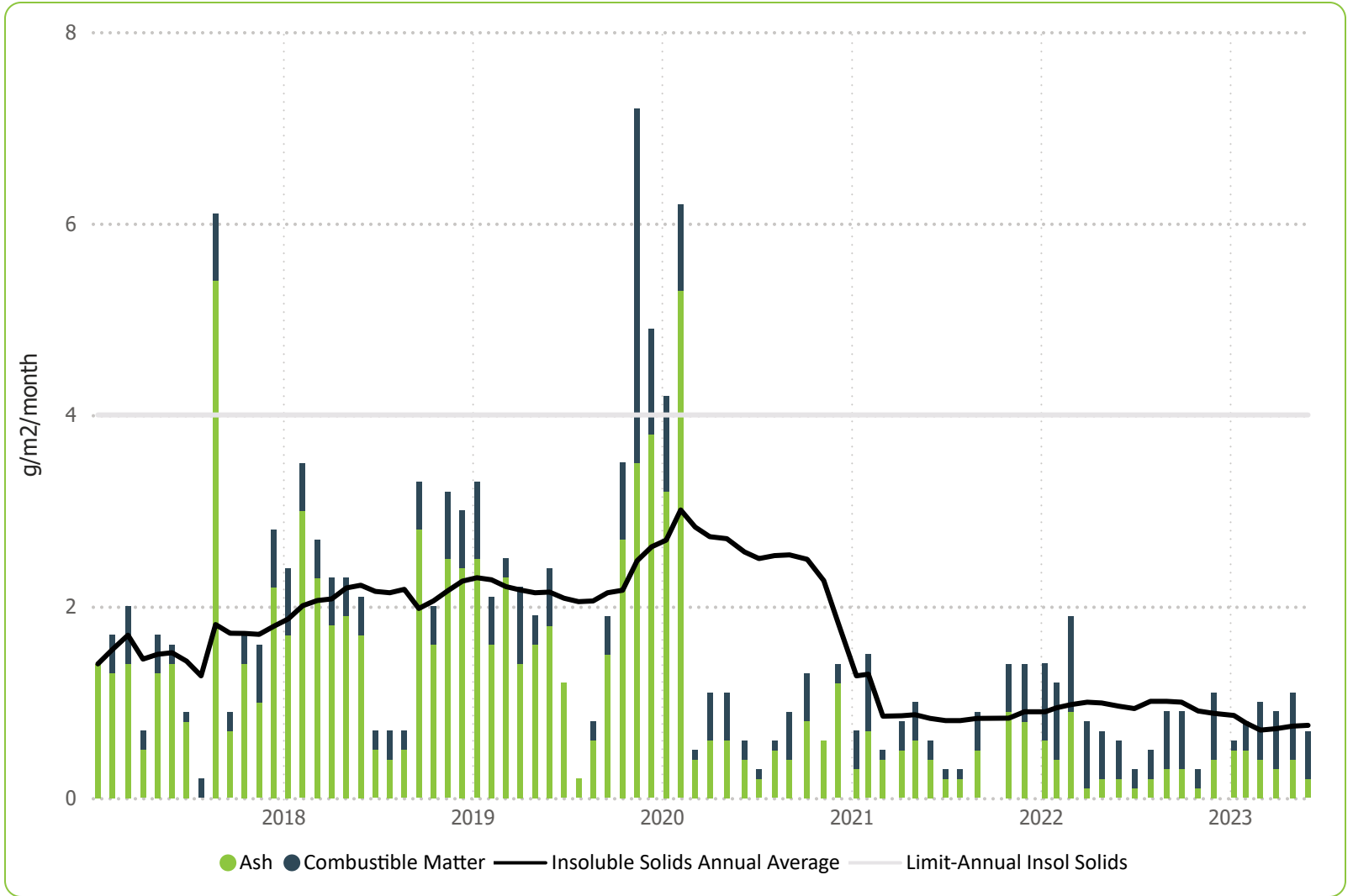


Date On	Comments
1/02/24	Vegetable farm adjacent recently ploughed
1/03/24	
28/03/24	
1/05/24	
31/05/24	
1/07/24	
1/08/24	
30/08/24	
1/10/24	
1/11/24	
2/12/24	
6/01/25	Bottle full of water

Date Sampled	Days On	Insoluble Solids	Ash	Combustible Matter	Calculated Rain
1/3/24	30	0.9	0.4	0.5	79
28/3/24	29	0.4	0.3	0.1	16
1/5/24	34	0.6	0.3	0.3	110
31/5/24	31	0.4	0.2	0.2	129
1/7/24	31	0.6	0.4	0.2	95
1/8/24	31	0.3	0.1	0.2	46
30/8/24	29	0.5	0.3	0.2	23
1/10/24	32	1.4	0.8	0.6	60
1/11/24	31	0.8	0.4	0.4	59
2/12/24	31	3.7	0.8	2.9	62
6/1/25	35	2.1	0.6	1.5	31
3/2/25	28	1.4	0.5	0.9	116



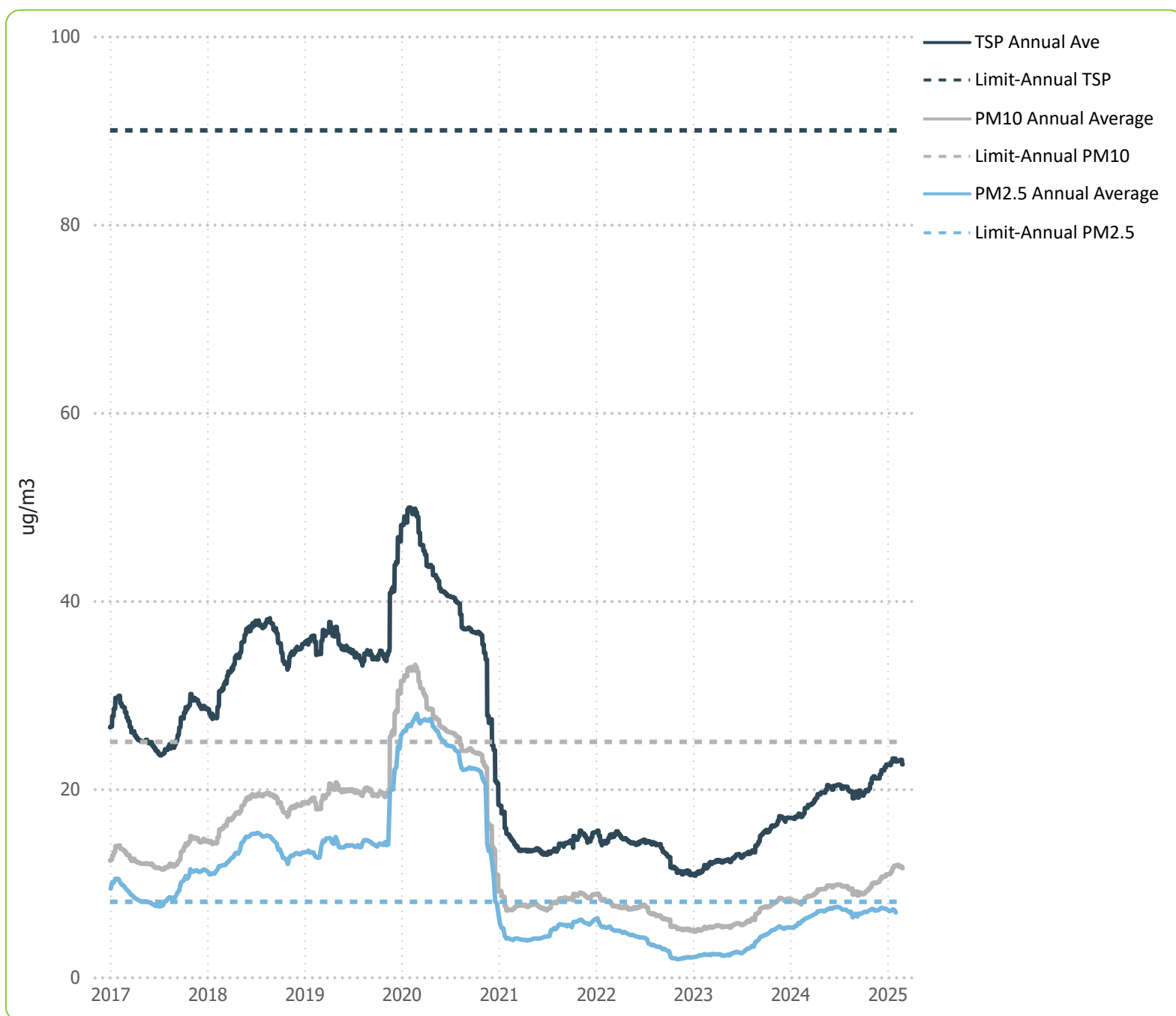
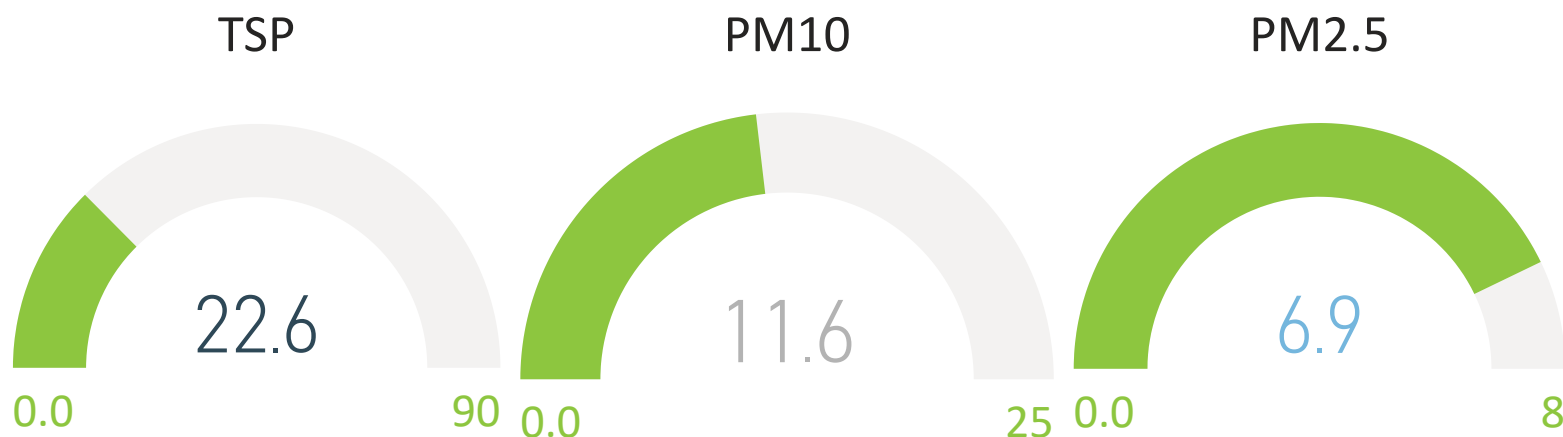
**Insoluble Solids
Annual Average
g/m²/month**



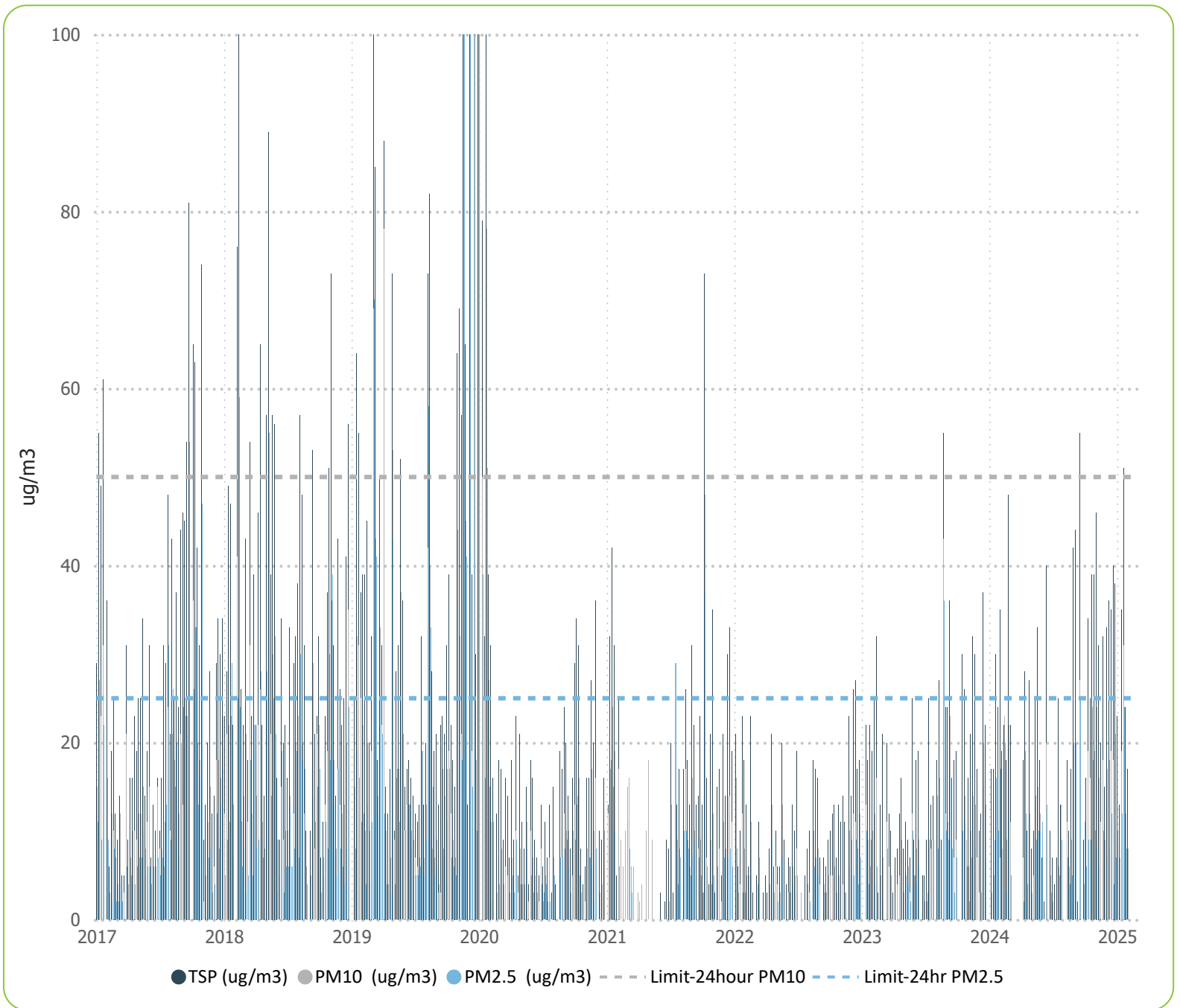
Date On	Comments
1/06/22	Sampled by Melissa Mass
1/07/22	Sampled by Melissa Mass. Flooding rainfall event during July.
1/08/22	Sampled by Melissa Mass.
1/09/22	Sampled by Melissa Mass.
30/09/22	Sampled by Melissa Mass.
1/11/22	Sampled by Melissa Mass.
1/12/22	Sampled by Melissa Mass.
9/01/23	
1/02/23	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

Sample

Dam 1 - Process

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
Dam 1 - Process	12/4/24	7.4	131	82	16	17	6.2	1.0	8	3.0
Dam 1 - Process	1/10/24	4.7	261	160	60	10	4.0	4.0	29	2.0
Dam 1 - Process	21/1/25	5.9	262	160	59	12	5.0	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 1 - Process	12/4/24	7.4	131	82	16	17	6.2	1.0	8	3.0
Dam 1 - Process	1/10/24	4.7	261	160	60	10	4.0	4.0	29	2.0
Dam 1 - Process	21/1/25	5.9	262	160	59	12	5.0	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
Dam 1 - Process	12/4/24	7.4	131	82	16	17	6.2	1.0	8	3.0
Dam 1 - Process	1/10/24	4.7	261	160	60	10	4.0	4.0	29	2.0
Dam 1 - Process	21/1/25	5.9	262	160	59	12	5.0	4.0	24	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	1/10/24	4.7	261	160	60	10	4.0	4.0	29	2.0
Dam 1 - Process	21/1/25	5.9	262	160	59	12	5.0	4.0	24	2.0

Sample

Dam 2 - Tailings

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
Dam 2 - Tailings	31/7/24	4.7	230	140	52	16	4.0	4.0	23	3.0
Dam 2 - Tailings	1/10/24	4.3	244	150	57	7	2.0	4.0	27	3.0
Dam 2 - Tailings	21/1/25	4.4	248	150	56	8	3.0	3.0	26	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	31/7/24	4.7	230	140	52	16	4.0	4.0	23	3.0
Dam 2 - Tailings	1/10/24	4.3	244	150	57	7	2.0	4.0	27	3.0
Dam 2 - Tailings	21/1/25	4.4	248	150	56	8	3.0	3.0	26	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 2 - Tailings	31/7/24	4.7	230	140	52	16	4.0	4.0	23	3.0
Dam 2 - Tailings	1/10/24	4.3	244	150	57	7	2.0	4.0	27	3.0
Dam 2 - Tailings	21/1/25	4.4	248	150	56	8	3.0	3.0	26	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 2 - Tailings	1/10/24	4.3	244	150	57	7	2.0	4.0	27	3.0
Dam 2 - Tailings	21/1/25	4.4	248	150	56	8	3.0	3.0	26	2.0

Sample

Dam 3 - Nursery

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
Dam 3 - Nursery	12/4/24	7.1	155	97	28	6	3.0	2.0	12	5.7
Dam 3 - Nursery	31/7/24	7.0	149	93	29	10	5.0	3.0	14	5.3
Dam 3 - Nursery	1/10/24	7.3	159	99	30	8	5.0	3.0	16	4.0
Dam 3 - Nursery	21/1/25	7.9	234	150	46	7	5.4	4.0	20	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 3 - Nursery	12/4/24	7.1	155	97	28	6	3.0	2.0	12	5.7
Dam 3 - Nursery	31/7/24	7.0	149	93	29	10	5.0	3.0	14	5.3
Dam 3 - Nursery	1/10/24	7.3	159	99	30	8	5.0	3.0	16	4.0
Dam 3 - Nursery	21/1/25	7.9	234	150	46	7	5.4	4.0	20	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 3 - Nursery	12/4/24	7.1	155	97	28	6	3.0	2.0	12	5.7
Dam 3 - Nursery	31/7/24	7.0	149	93	29	10	5.0	3.0	14	5.3
Dam 3 - Nursery	1/10/24	7.3	159	99	30	8	5.0	3.0	16	4.0
Dam 3 - Nursery	21/1/25	7.9	234	150	46	7	5.4	4.0	20	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 3 - Nursery	12/4/24	7.1	155	97	28	6	3.0	2.0	12	5.7
Dam 3 - Nursery	31/7/24	7.0	149	93	29	10	5.0	3.0	14	5.3
Dam 3 - Nursery	1/10/24	7.3	159	99	30	8	5.0	3.0	16	4.0
Dam 3 - Nursery	21/1/25	7.9	234	150	46	7	5.4	4.0	20	5.1

Sample

Dam 4 - Farm

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
Dam 4 - Farm	12/4/24	7.3	74	0	14	2	0.7	0.9	6	3.0
Dam 4 - Farm	31/7/24	7.1	72	0	11	5	2.0	2.0	7	3.0
Dam 4 - Farm	1/10/24	8.3	83	52	12	5	2.0	2.0	8	2.0
Dam 4 - Farm	21/1/25	9.8	148	92	23	10	3.0	2.0	11	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
Dam 4 - Farm	12/4/24	7.3	74	0	14	2	0.7	0.9	6	3.0
Dam 4 - Farm	31/7/24	7.1	72	0	11	5	2.0	2.0	7	3.0
Dam 4 - Farm	1/10/24	8.3	83	52	12	5	2.0	2.0	8	2.0
Dam 4 - Farm	21/1/25	9.8	148	92	23	10	3.0	2.0	11	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
Dam 4 - Farm	12/4/24	7.3	74	0	14	2	0.7	0.9	6	3.0
Dam 4 - Farm	31/7/24	7.1	72	0	11	5	2.0	2.0	7	3.0
Dam 4 - Farm	1/10/24	8.3	83	52	12	5	2.0	2.0	8	2.0
Dam 4 - Farm	21/1/25	9.8	148	92	23	10	3.0	2.0	11	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
Dam 4 - Farm	12/4/24	7.3	74	0	14	2	0.7	0.9	6	3.0
Dam 4 - Farm	31/7/24	7.1	72	0	11	5	2.0	2.0	7	3.0
Dam 4 - Farm	1/10/24	8.3	83	52	12	5	2.0	2.0	8	2.0
Dam 4 - Farm	21/1/25	9.8	148	92	23	10	3.0	2.0	11	4.0

Sample

MW1

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
MW1	12/4/24	4.3	292	180	41	29	5.0	12.0	19	5.0
MW1	31/7/24	4.3	323	200	51	30	6.7	13.0	22	5.7
MW1	1/10/24	4.1	352	220	41	33	7.5	13.0	20	6.4
MW1	21/1/25	4.1	376	230	48	38	9.3	16.0	18	7.3

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	12/4/24	4.3	292	180	41	29	5.0	12.0	19	5.0
MW1	31/7/24	4.3	323	200	51	30	6.7	13.0	22	5.7
MW1	1/10/24	4.1	352	220	41	33	7.5	13.0	20	6.4
MW1	21/1/25	4.1	376	230	48	38	9.3	16.0	18	7.3

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	12/4/24	4.3	292	180	41	29	5.0	12.0	19	5.0
MW1	31/7/24	4.3	323	200	51	30	6.7	13.0	22	5.7
MW1	1/10/24	4.1	352	220	41	33	7.5	13.0	20	6.4
MW1	21/1/25	4.1	376	230	48	38	9.3	16.0	18	7.3

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	12/4/24	4.3	292	180	41	29	5.0	12.0	19	5.0
MW1	31/7/24	4.3	323	200	51	30	6.7	13.0	22	5.7
MW1	1/10/24	4.1	352	220	41	33	7.5	13.0	20	6.4
MW1	21/1/25	4.1	376	230	48	38	9.3	16.0	18	7.3

Sample

MW10

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
MW10	12/4/24	4.4	261	160	61	6	0.7	5.0	30	1.0
MW10	31/7/24	4.4	269	170	67	12	1.0	5.4	27	1.0
MW10	1/10/24	4.4	204	130	49	2	0.7	5.0	27	0.9
MW10	21/1/25	4.3	202	130	54	2	0.0	5.0	20	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
MW10	12/4/24	4.4	261	160	61	6	0.7	5.0	30	1.0
MW10	31/7/24	4.4	269	170	67	12	1.0	5.4	27	1.0
MW10	1/10/24	4.4	204	130	49	2	0.7	5.0	27	0.9
MW10	21/1/25	4.3	202	130	54	2	0.0	5.0	20	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
MW10	12/4/24	4.4	261	160	61	6	0.7	5.0	30	1.0
MW10	31/7/24	4.4	269	170	67	12	1.0	5.4	27	1.0
MW10	1/10/24	4.4	204	130	49	2	0.7	5.0	27	0.9
MW10	21/1/25	4.3	202	130	54	2	0.0	5.0	20	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
MW10	12/4/24	4.4	261	160	61	6	0.7	5.0	30	1.0
MW10	31/7/24	4.4	269	170	67	12	1.0	5.4	27	1.0
MW10	1/10/24	4.4	204	130	49	2	0.7	5.0	27	0.9
MW10	21/1/25	4.3	202	130	54	2	0.0	5.0	20	0.9

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)	12/4/24	5.8	160	100	30	11	4.0	2.0	13	6.0
MW11 (Off Old Telegraph Rd)	31/7/24	6.0	261	160	29	34	18.0	5.0	15	8.7
MW11 (Off Old Telegraph Rd)	1/10/24	5.7	198	120	35	10	7.4	3.0	17	5.0
MW11 (Off Old Telegraph Rd)	21/1/25	5.3	154	96	37	3	3.0	2.0	16	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
MW11 (Off Old Telegraph Rd)	12/4/24	5.8	160	100	30	11	4.0	2.0	13	6.0
MW11 (Off Old Telegraph Rd)	31/7/24	6.0	261	160	29	34	18.0	5.0	15	8.7
MW11 (Off Old Telegraph Rd)	1/10/24	5.7	198	120	35	10	7.4	3.0	17	5.0
MW11 (Off Old Telegraph Rd)	21/1/25	5.3	154	96	37	3	3.0	2.0	16	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
MW11 (Off Old Telegraph Rd)	12/4/24	5.8	160	100	30	11	4.0	2.0	13	6.0
MW11 (Off Old Telegraph Rd)	31/7/24	6.0	261	160	29	34	18.0	5.0	15	8.7
MW11 (Off Old Telegraph Rd)	1/10/24	5.7	198	120	35	10	7.4	3.0	17	5.0
MW11 (Off Old Telegraph Rd)	21/1/25	5.3	154	96	37	3	3.0	2.0	16	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
MW11 (Off Old Telegraph Rd)	12/4/24	5.8	160	100	30	11	4.0	2.0	13	6.0
MW11 (Off Old Telegraph Rd)	31/7/24	6.0	261	160	29	34	18.0	5.0	15	8.7
MW11 (Off Old Telegraph Rd)	1/10/24	5.7	198	120	35	10	7.4	3.0	17	5.0
MW11 (Off Old Telegraph Rd)	21/1/25	5.3	154	96	37	3	3.0	2.0	16	3.0

Sample

MW12

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
MW12	12/4/24	5.0	126	79	22	9	2.0	1.0	13	2.0
MW12	31/7/24	4.9	107	67	22	7	2.0	1.0	13	0.9
MW12	1/10/24	4.7	115	72	23	7	2.0	1.0	15	0.7
MW12	21/1/25	4.6	121	76	25	8	2.0	2.0	14	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
MW12	12/4/24	5.0	126	79	22	9	2.0	1.0	13	2.0
MW12	31/7/24	4.9	107	67	22	7	2.0	1.0	13	0.9
MW12	1/10/24	4.7	115	72	23	7	2.0	1.0	15	0.7
MW12	21/1/25	4.6	121	76	25	8	2.0	2.0	14	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
MW12	12/4/24	5.0	126	79	22	9	2.0	1.0	13	2.0
MW12	31/7/24	4.9	107	67	22	7	2.0	1.0	13	0.9
MW12	1/10/24	4.7	115	72	23	7	2.0	1.0	15	0.7
MW12	21/1/25	4.6	121	76	25	8	2.0	2.0	14	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
MW12	12/4/24	5.0	126	79	22	9	2.0	1.0	13	2.0
MW12	31/7/24	4.9	107	67	22	7	2.0	1.0	13	0.9
MW12	1/10/24	4.7	115	72	23	7	2.0	1.0	15	0.7
MW12	21/1/25	4.6	121	76	25	8	2.0	2.0	14	1.0

Sample

MW6 (Office)

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
MW6 (Office)	12/4/24	7.4	342	210	77	1	2.0	2.0	45	2.0
MW6 (Office)	31/7/24	7.8	354	220	82	0	4.0	3.0	43	2.0
MW6 (Office)	1/10/24	8.5	366	230	81	0	5.0	4.0	56	2.0
MW6 (Office)	21/1/25	7.3	342	210	81	0	4.0	3.0	54	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)	12/4/24	7.4	342	210	77	1	2.0	2.0	45	2.0
MW6 (Office)	31/7/24	7.8	354	220	82	0	4.0	3.0	43	2.0
MW6 (Office)	1/10/24	8.5	366	230	81	0	5.0	4.0	56	2.0
MW6 (Office)	21/1/25	7.3	342	210	81	0	4.0	3.0	54	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)	12/4/24	7.4	342	210	77	1	2.0	2.0	45	2.0
MW6 (Office)	31/7/24	7.8	354	220	82	0	4.0	3.0	43	2.0
MW6 (Office)	1/10/24	8.5	366	230	81	0	5.0	4.0	56	2.0
MW6 (Office)	21/1/25	7.3	342	210	81	0	4.0	3.0	54	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)	12/4/24	7.4	342	210	77	1	2.0	2.0	45	2.0
MW6 (Office)	31/7/24	7.8	354	220	82	0	4.0	3.0	43	2.0
MW6 (Office)	1/10/24	8.5	366	230	81	0	5.0	4.0	56	2.0
MW6 (Office)	21/1/25	7.3	342	210	81	0	4.0	3.0	54	2.0

Sample

MW7

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
MW7	12/4/24	5.6	181	110	29	8	0.0	0.0	26	0.0
MW7	31/7/24	5.4	174	110	31	7	2.0	1.0	24	0.9
MW7	1/10/24	5.2	166	100	30	6	2.0	2.0	27	1.0
MW7	21/1/25	5.5	177	110	72	3	3.0	2.0	21	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
MW7	12/4/24	5.6	181	110	29	8	0.0	0.0	26	0.0
MW7	31/7/24	5.4	174	110	31	7	2.0	1.0	24	0.9
MW7	1/10/24	5.2	166	100	30	6	2.0	2.0	27	1.0
MW7	21/1/25	5.5	177	110	72	3	3.0	2.0	21	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
MW7	12/4/24	5.6	181	110	29	8	0.0	0.0	26	0.0
MW7	31/7/24	5.4	174	110	31	7	2.0	1.0	24	0.9
MW7	1/10/24	5.2	166	100	30	6	2.0	2.0	27	1.0
MW7	21/1/25	5.5	177	110	72	3	3.0	2.0	21	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
MW7	12/4/24	5.6	181	110	29	8	0.0	0.0	26	0.0
MW7	31/7/24	5.4	174	110	31	7	2.0	1.0	24	0.9
MW7	1/10/24	5.2	166	100	30	6	2.0	2.0	27	1.0
MW7	21/1/25	5.5	177	110	72	3	3.0	2.0	21	1.0

Sample

MW8

Sample	Date	pH	Electrical Conductivity	Total Dissolved Solids	Chloride	Sulphate	Calcium	Magnesium	Sodium	Potassium
MW8	12/4/24	4.4	195	120	45	1	0.7	3.0	20	0.0
MW8	31/7/24	4.4	189	120	47	1	1.0	3.0	21	0.0
MW8	1/10/24	4.2	214	130	49	1	0.9	3.0	23	0.0
MW8	21/1/25	4.2	219	140	71	2	0.8	3.0	25	0.0

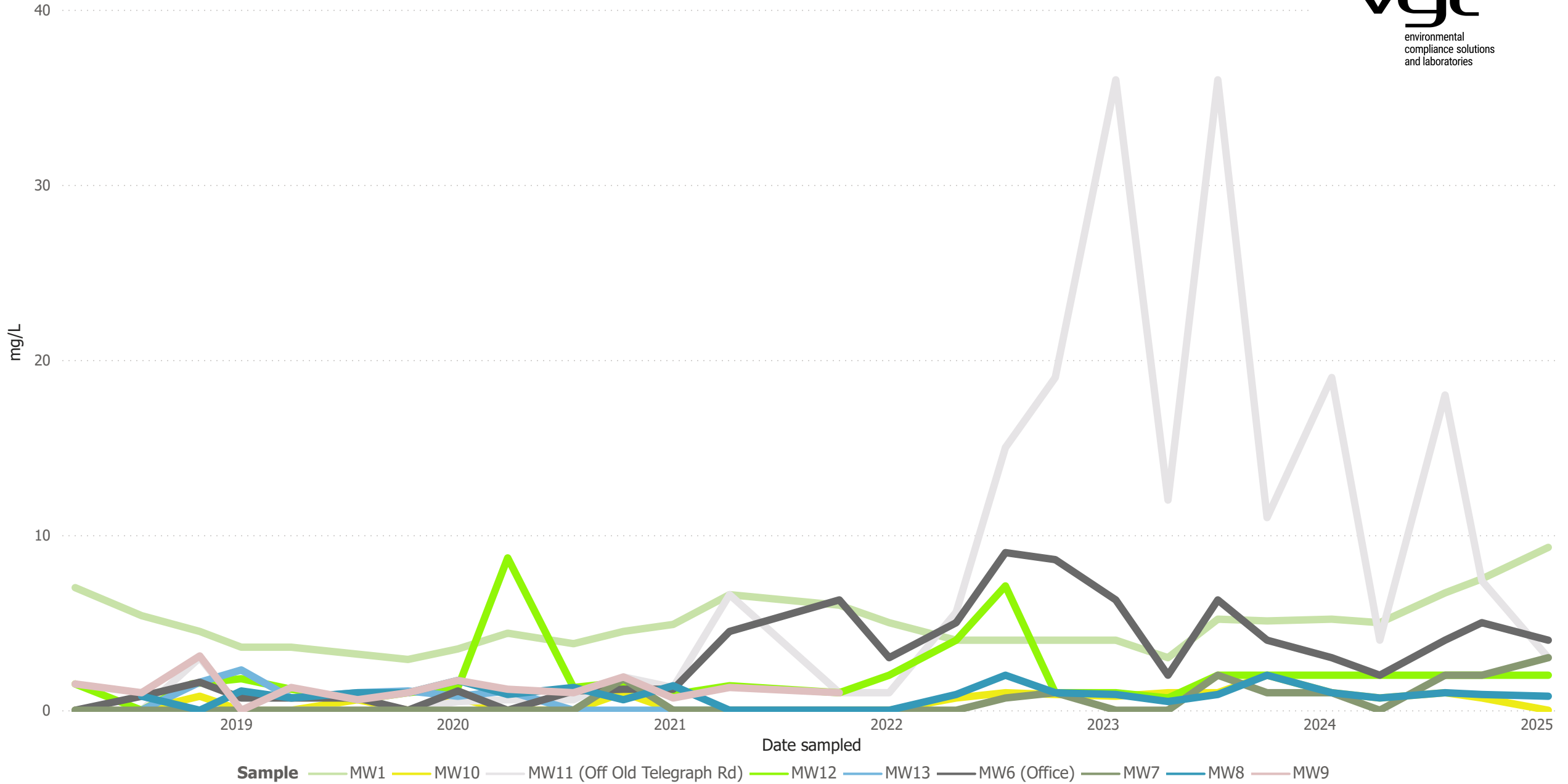
Sample	Date	Average of pH	Average of Electrical Conductivity	Average of Total Dissolved Solids	Average of Chloride	Average of Sulphate	Average of Calcium	Average of Magnesium	Average of Sodium	Average of Potassium
MW8	12/4/24	4.4	195	120	45	1	0.7	3.0	20	0.0
MW8	31/7/24	4.4	189	120	47	1	1.0	3.0	21	0.0
MW8	1/10/24	4.2	214	130	49	1	0.9	3.0	23	0.0
MW8	21/1/25	4.2	219	140	71	2	0.8	3.0	25	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	12/4/24	4.4	195	120	45	1	0.7	3.0	20	0.0
MW8	31/7/24	4.4	189	120	47	1	1.0	3.0	21	0.0
MW8	1/10/24	4.2	214	130	49	1	0.9	3.0	23	0.0
MW8	21/1/25	4.2	219	140	71	2	0.8	3.0	25	0.0

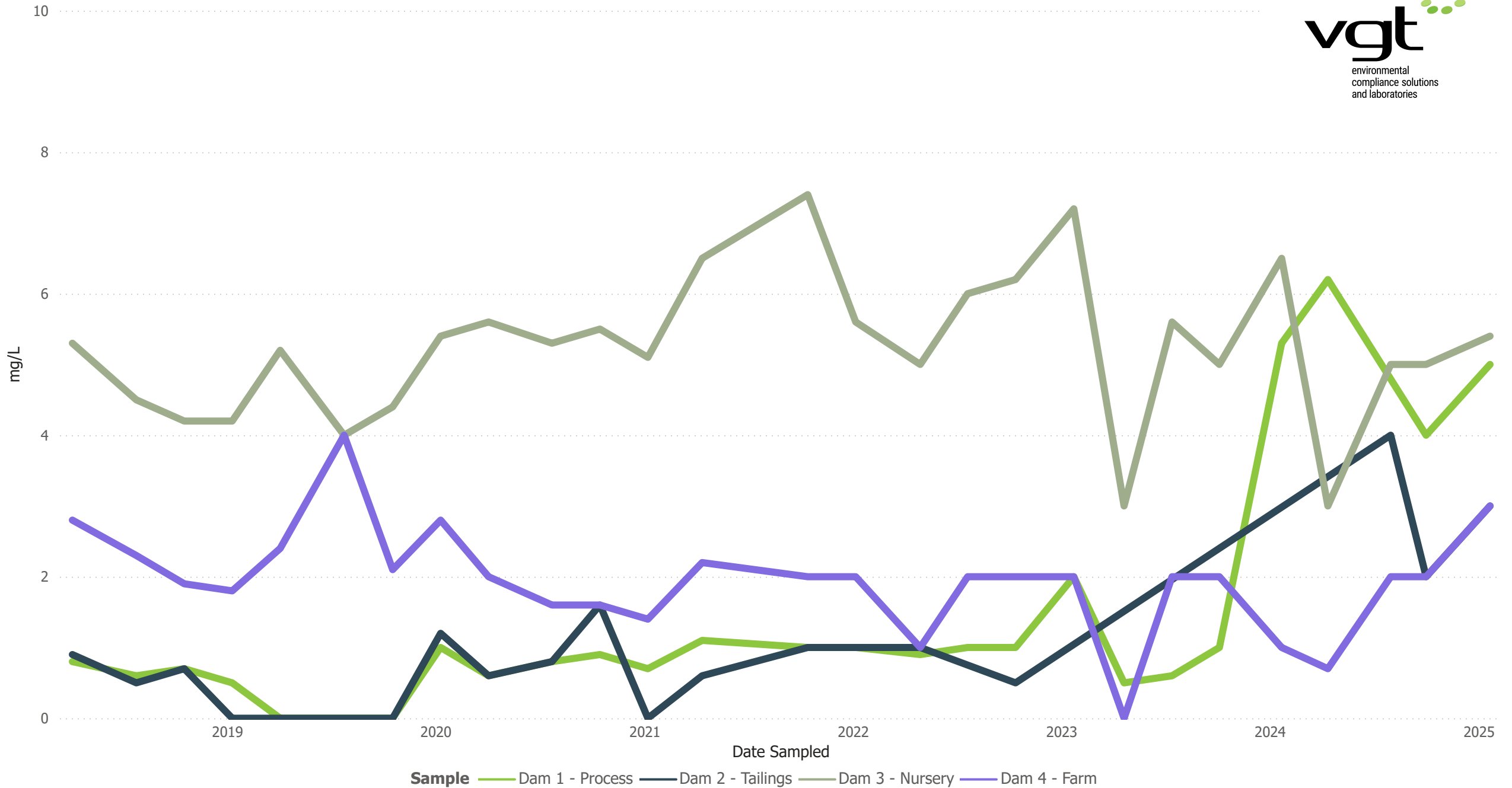
Sample	Date	Max of pH	Max of Electrical Conductivity	Max of Total Dissolved Solids	Max of Chloride	Max of Sulphate	Max of Calcium	Max of Magnesium	Max of Sodium	Max of Potassium
MW8	12/4/24	4.4	195	120	45	1	0.7	3.0	20	0.0
MW8	31/7/24	4.4	189	120	47	1	1.0	3.0	21	0.0
MW8	1/10/24	4.2	214	130	49	1	0.9	3.0	23	0.0
MW8	21/1/25	4.2	219	140	71	2	0.8	3.0	25	0.0

Water Quality Trends

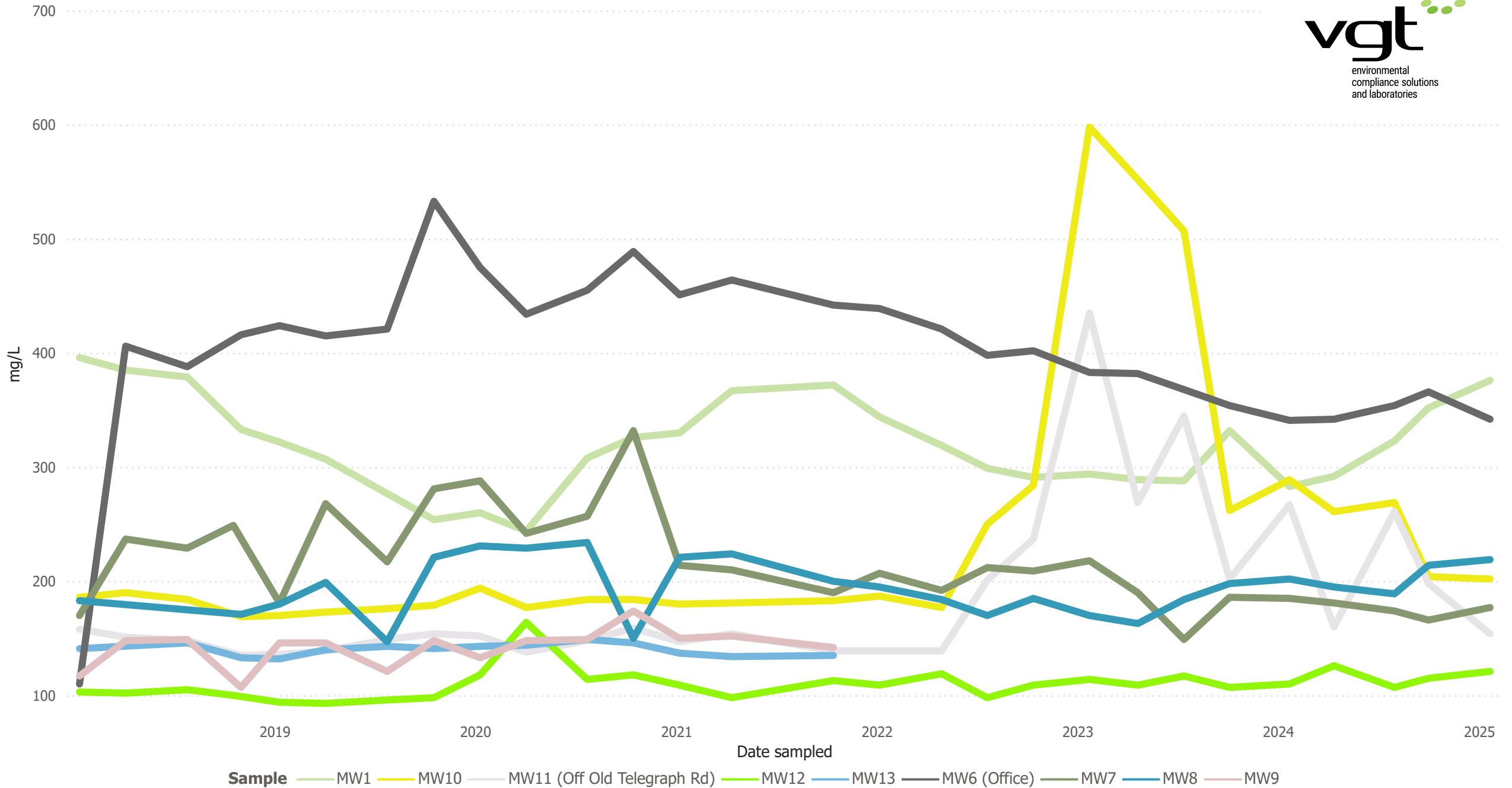
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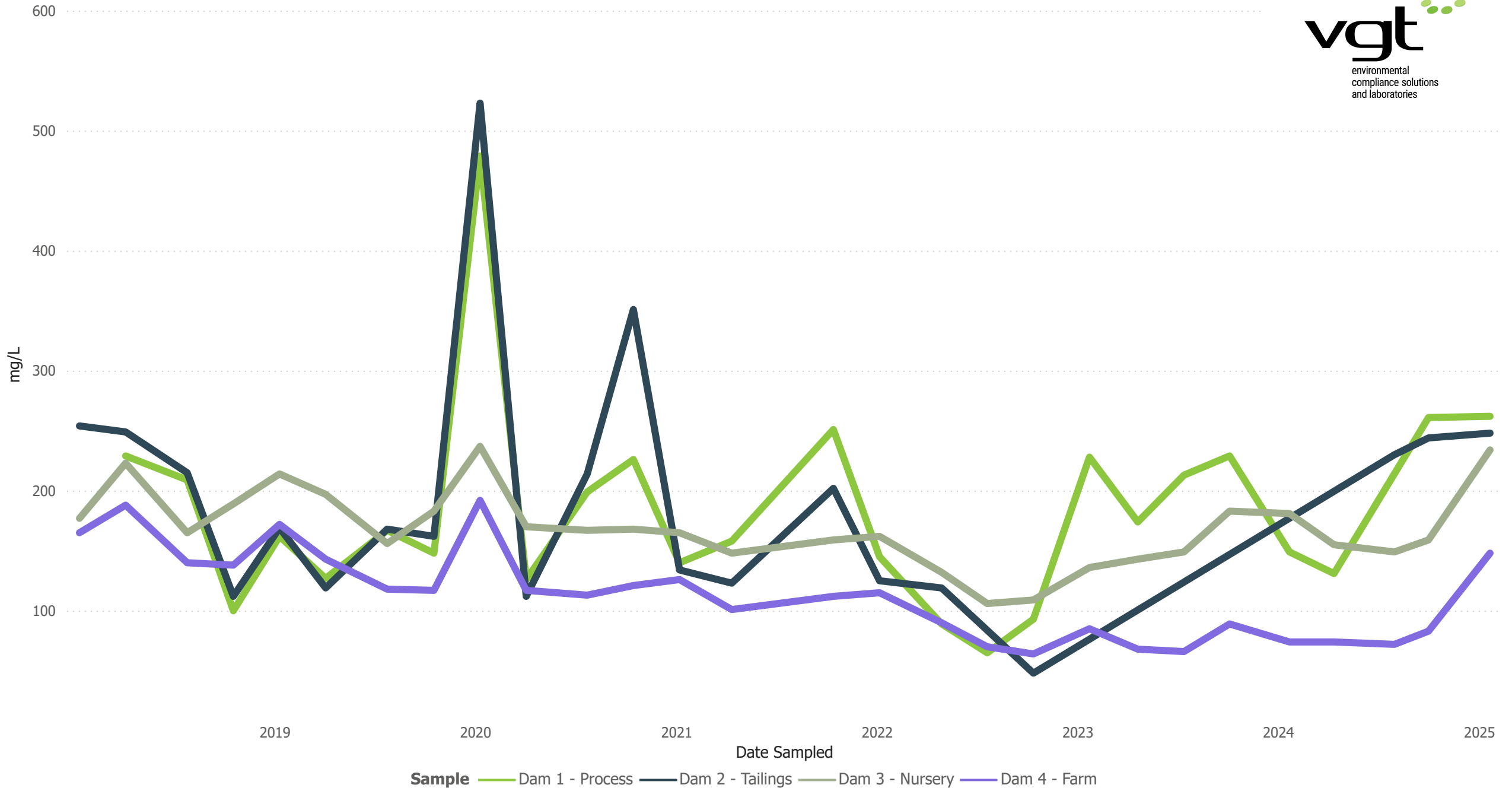
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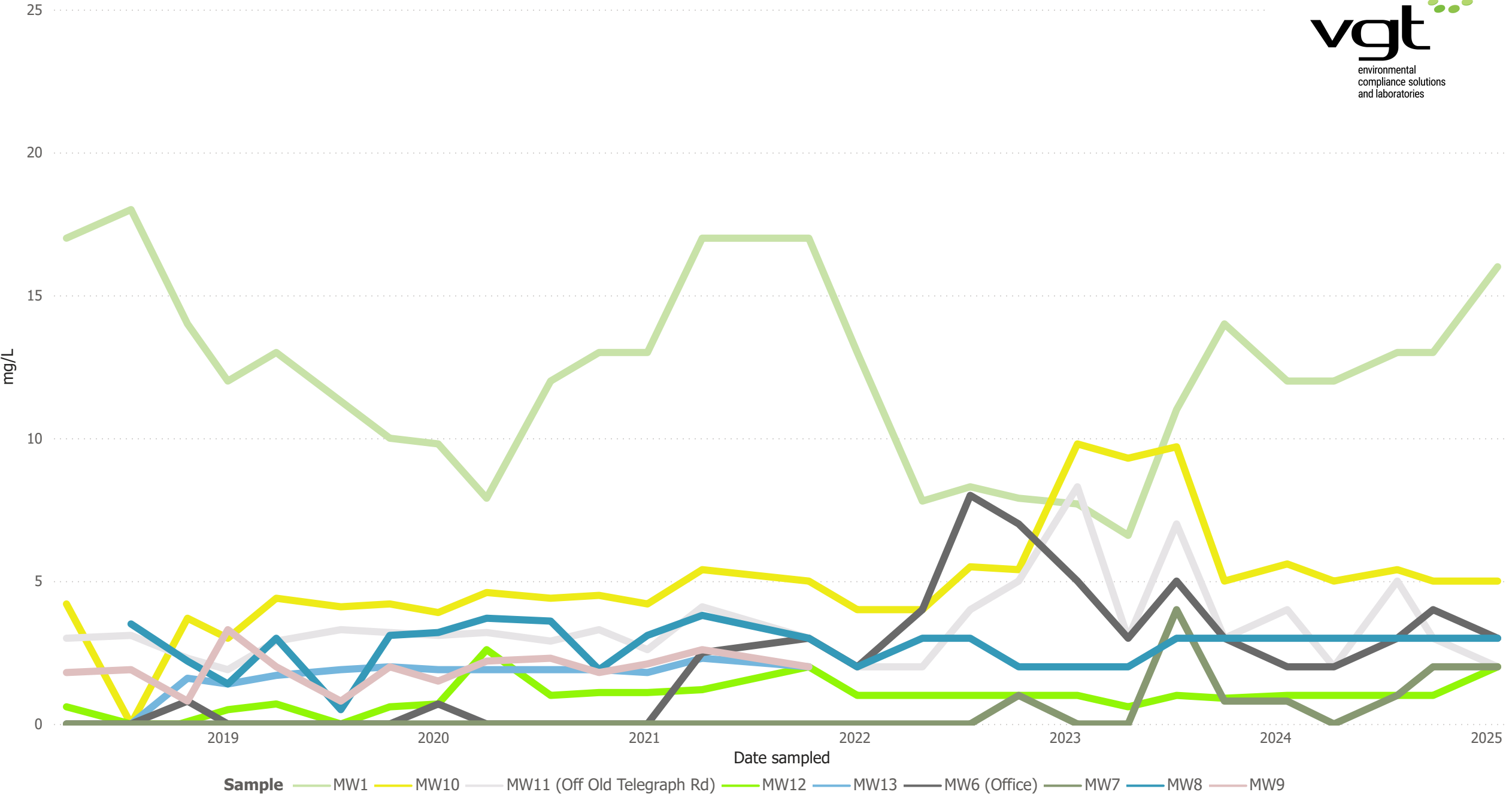
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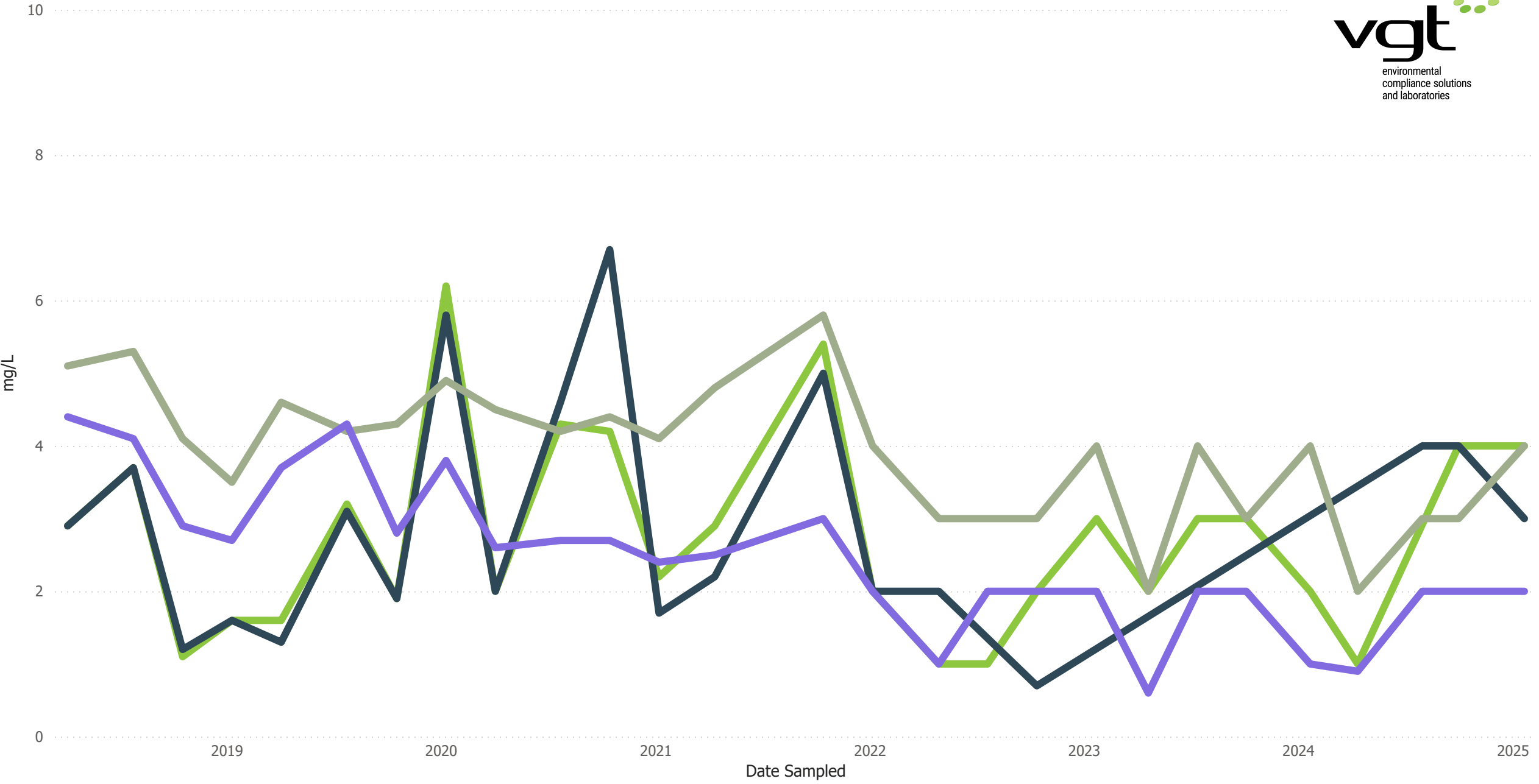
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Magnesium

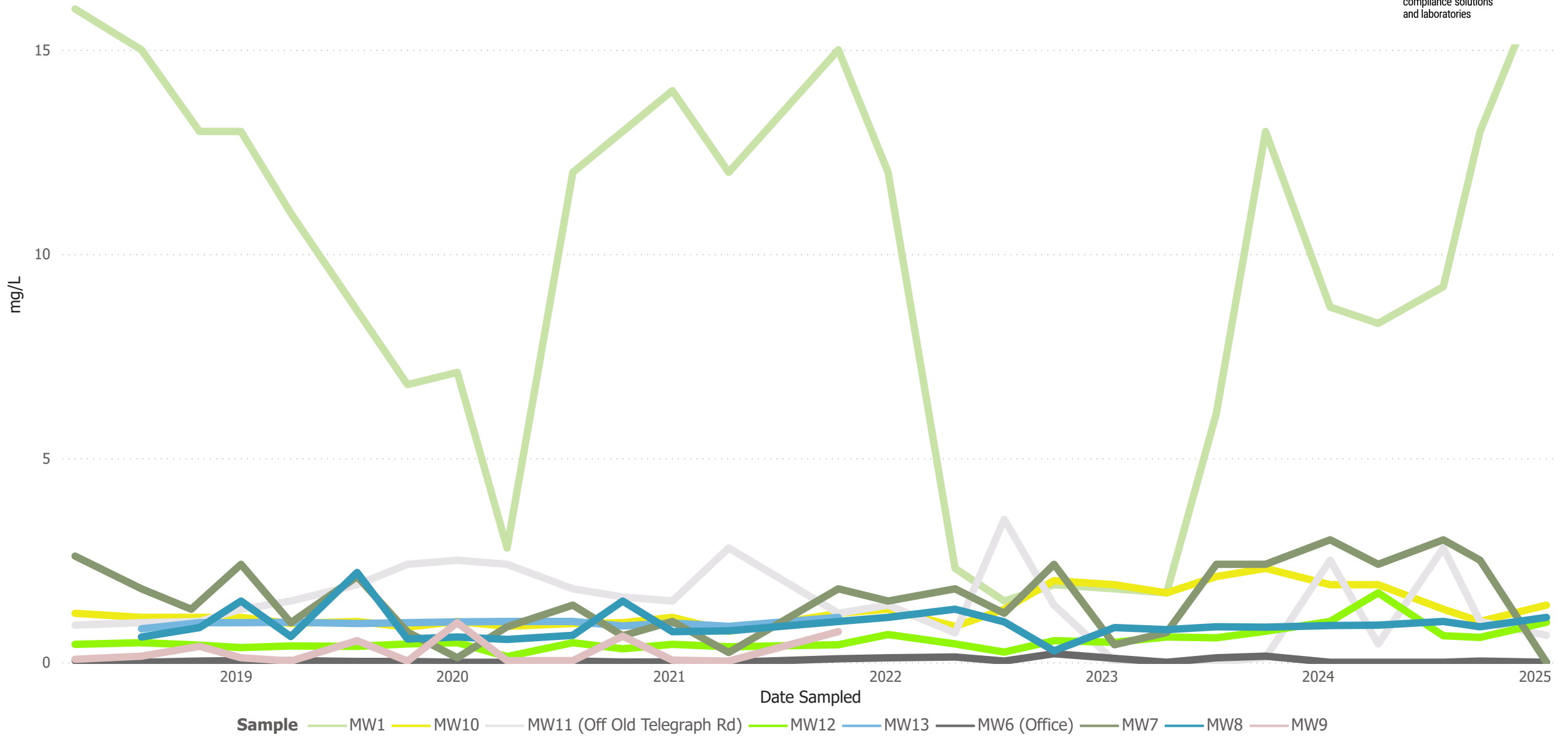


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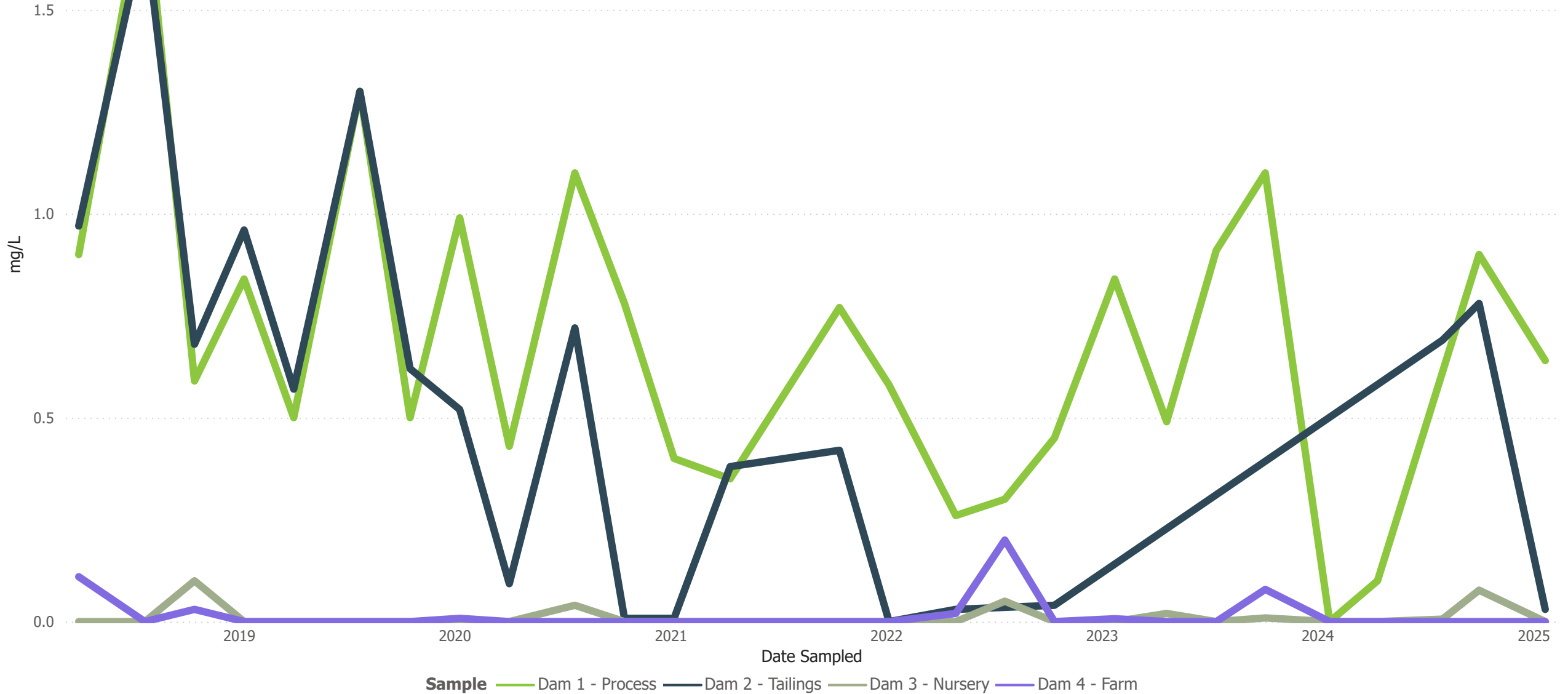


Sample — Dam 1 - Process — Dam 2 - Tailings — Dam 3 - Nursery — Dam 4 - Farm

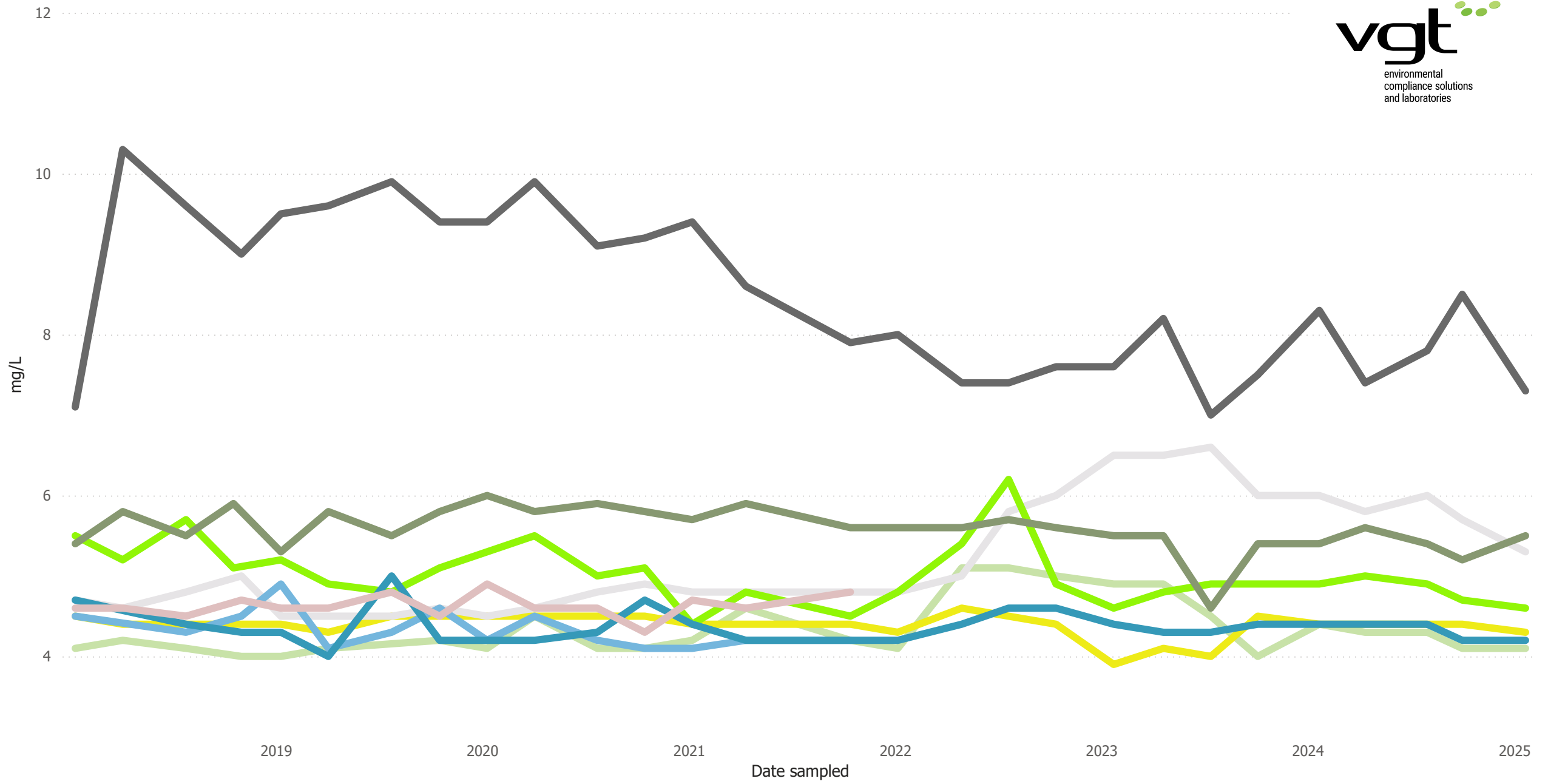
Nitrate as N



Nitrate as N

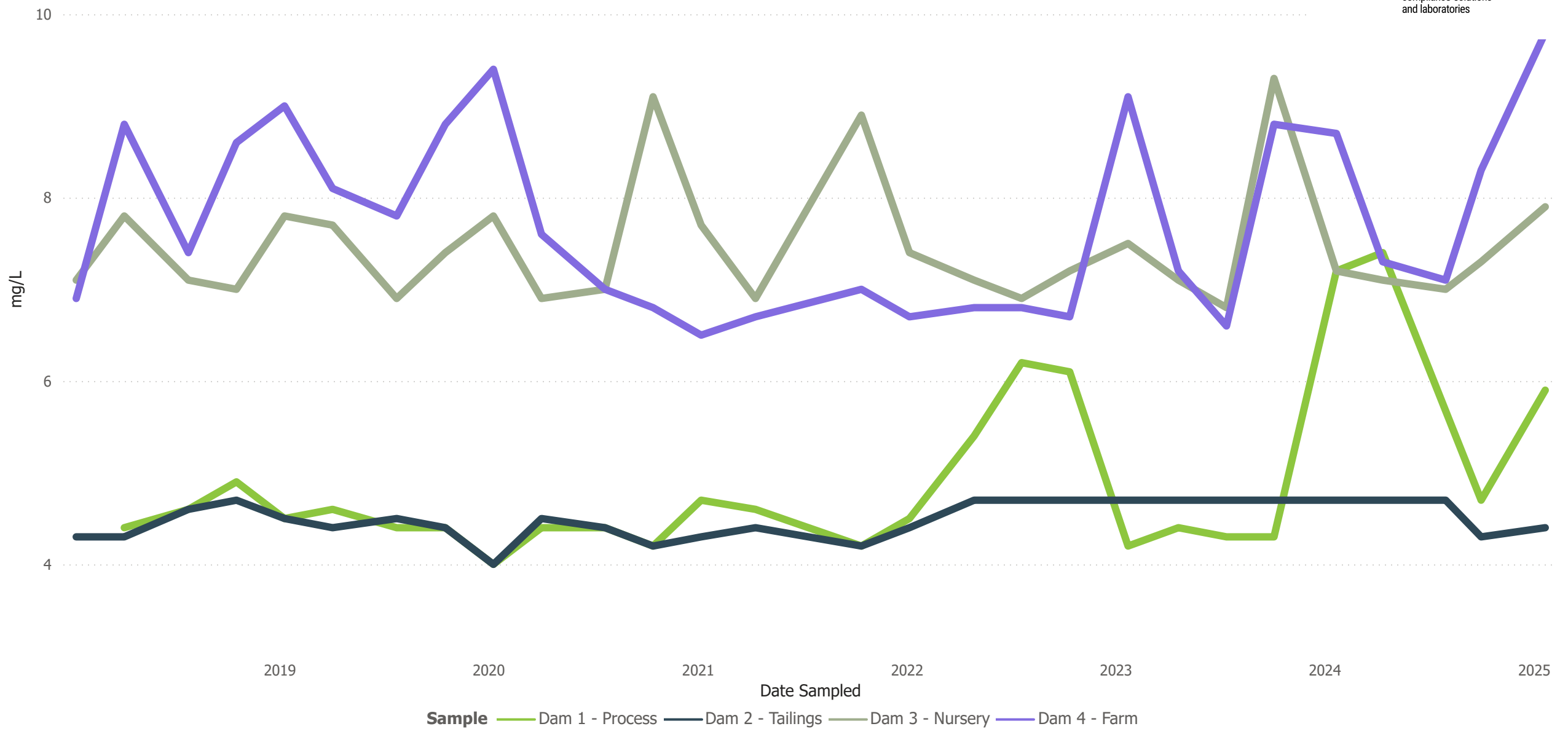


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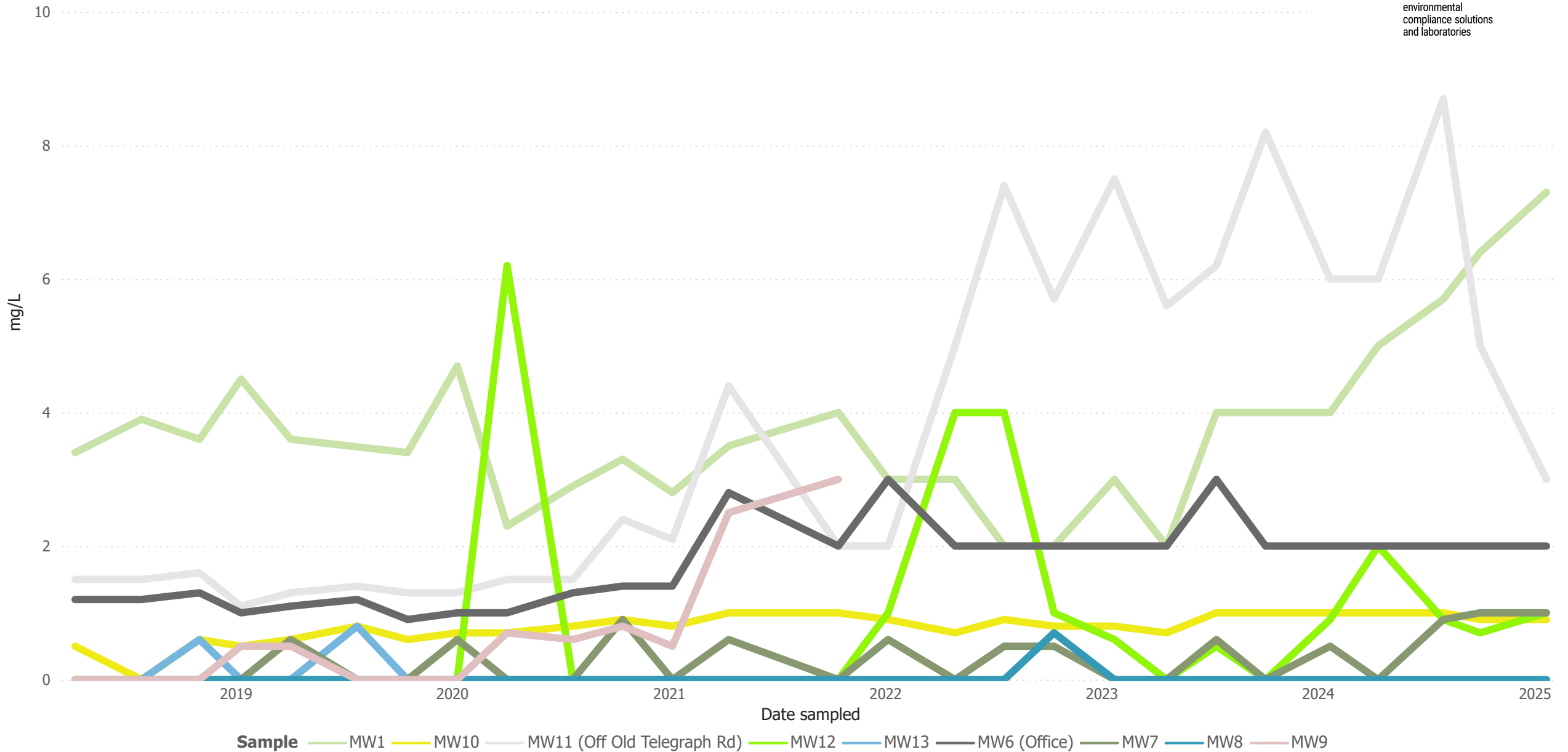


Sample MW1 MW10 MW11 (Off Old Telegraph Rd) MW12 MW13 MW6 (Office) MW7 MW8 MW9

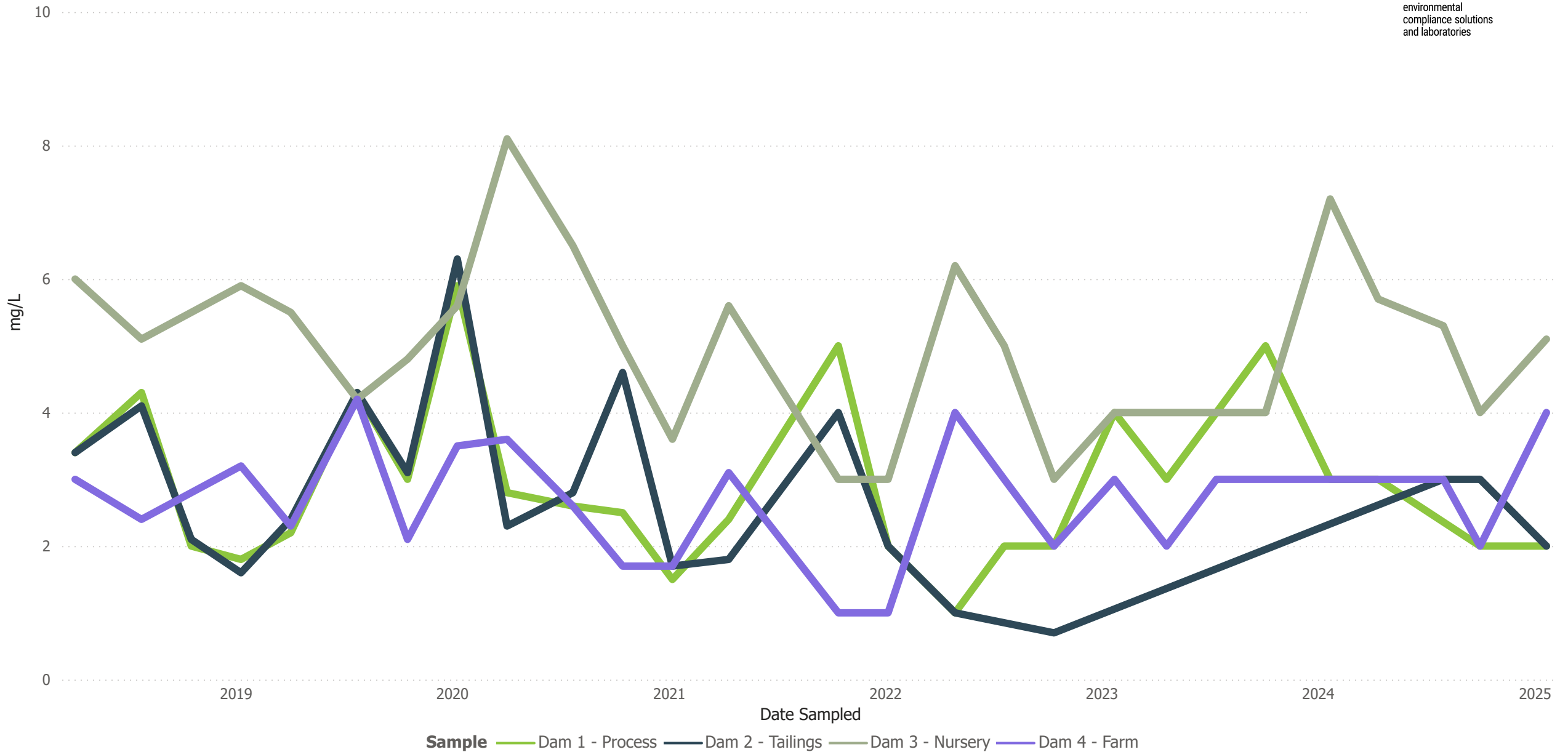
pH



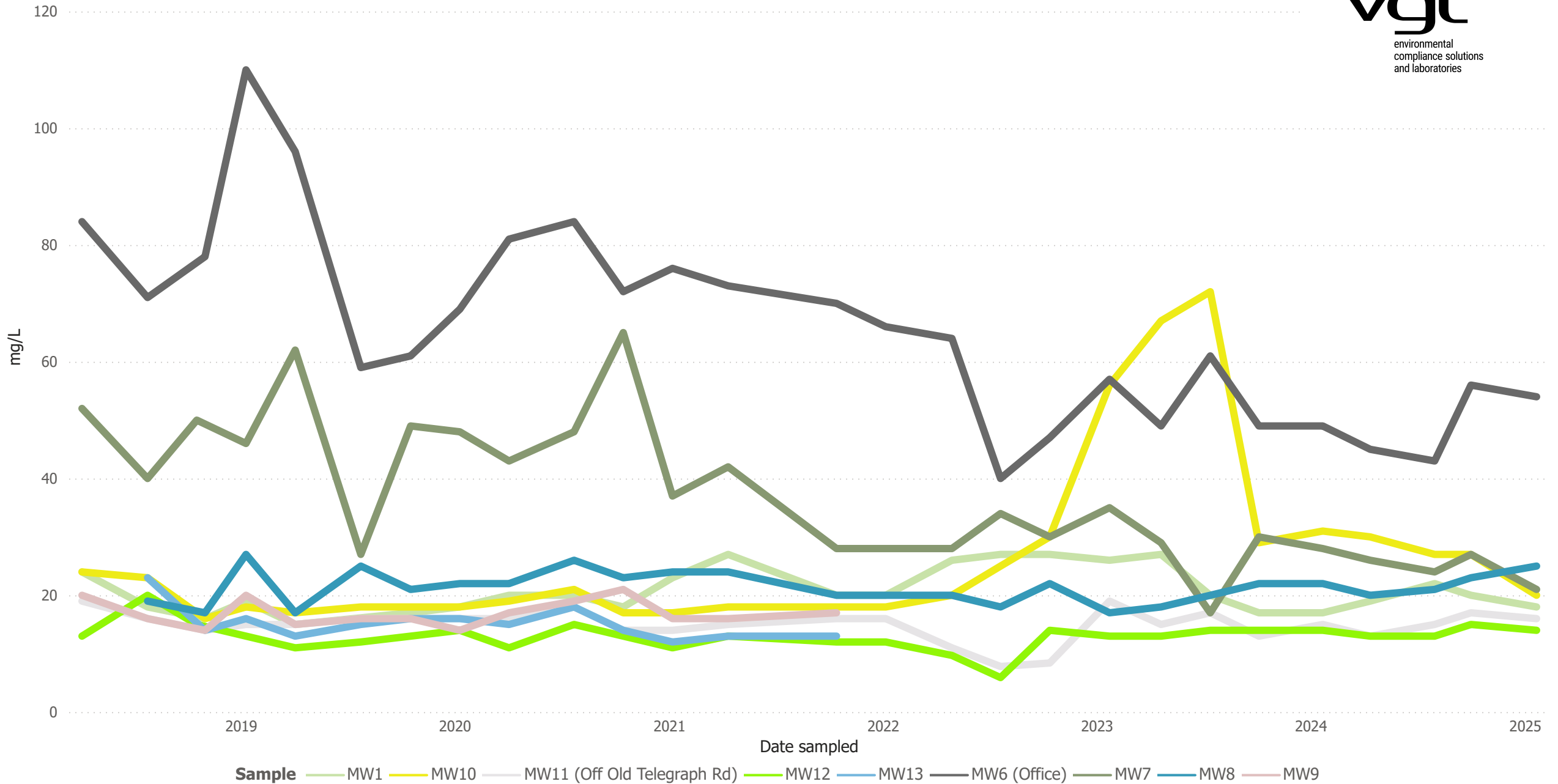
Potassium



Potassium



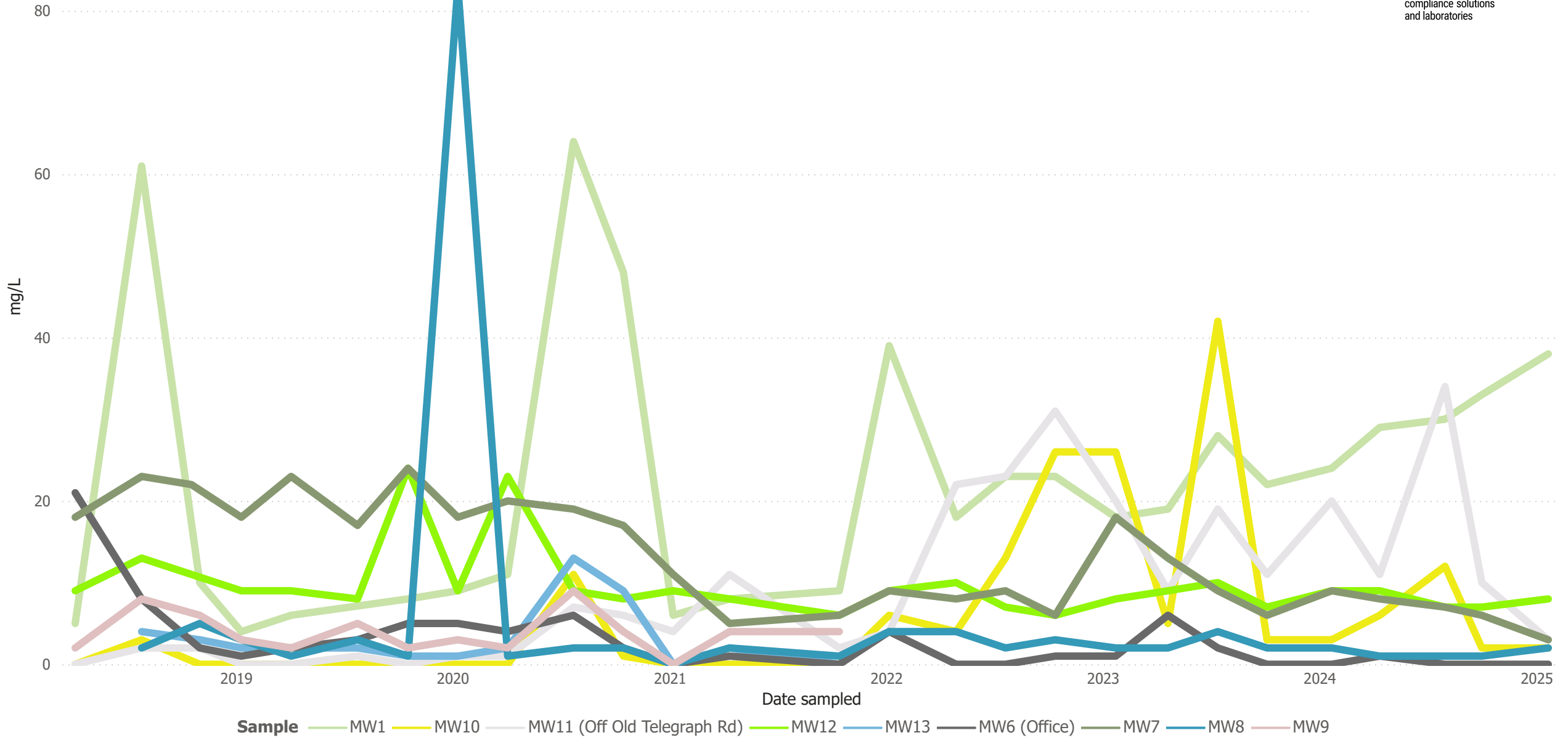
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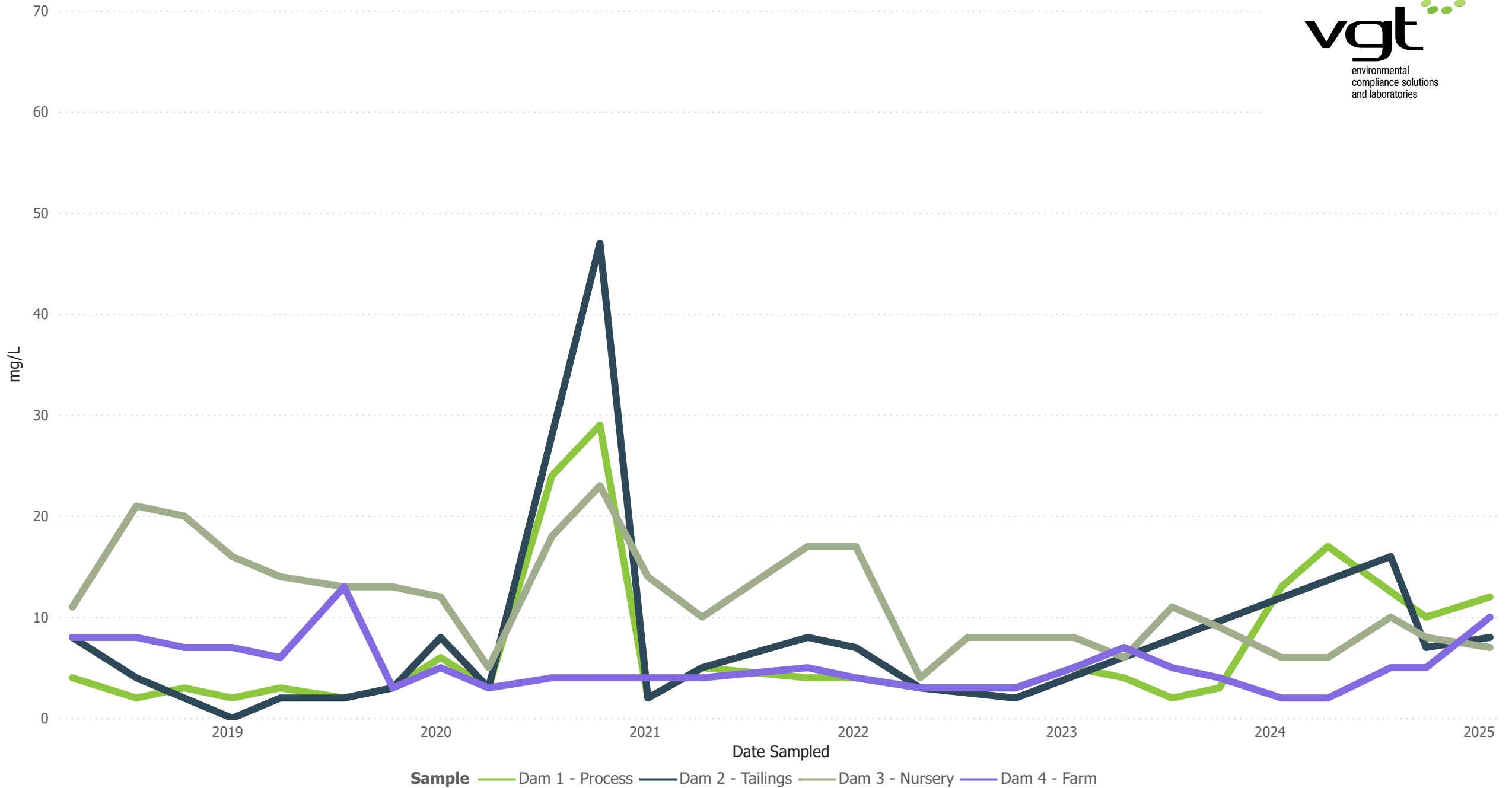
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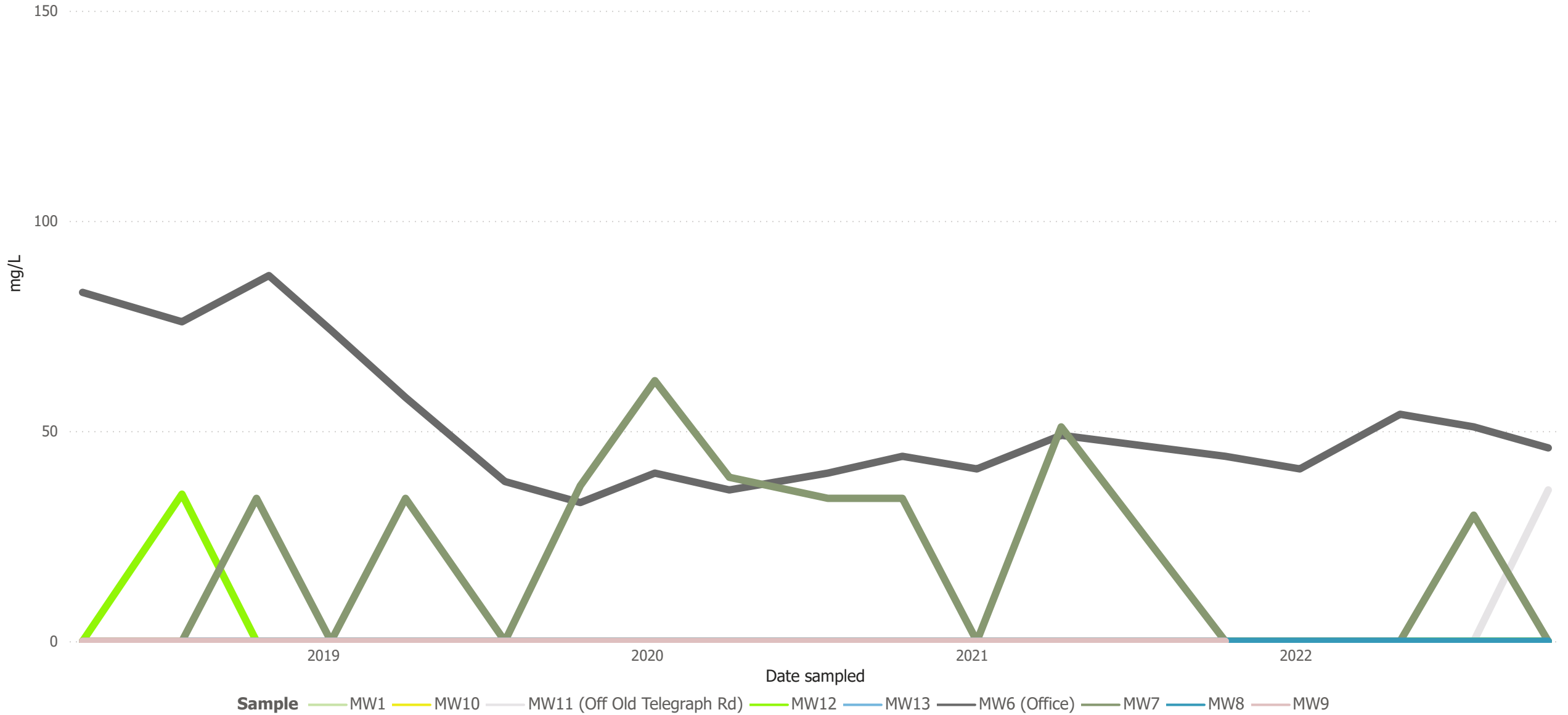
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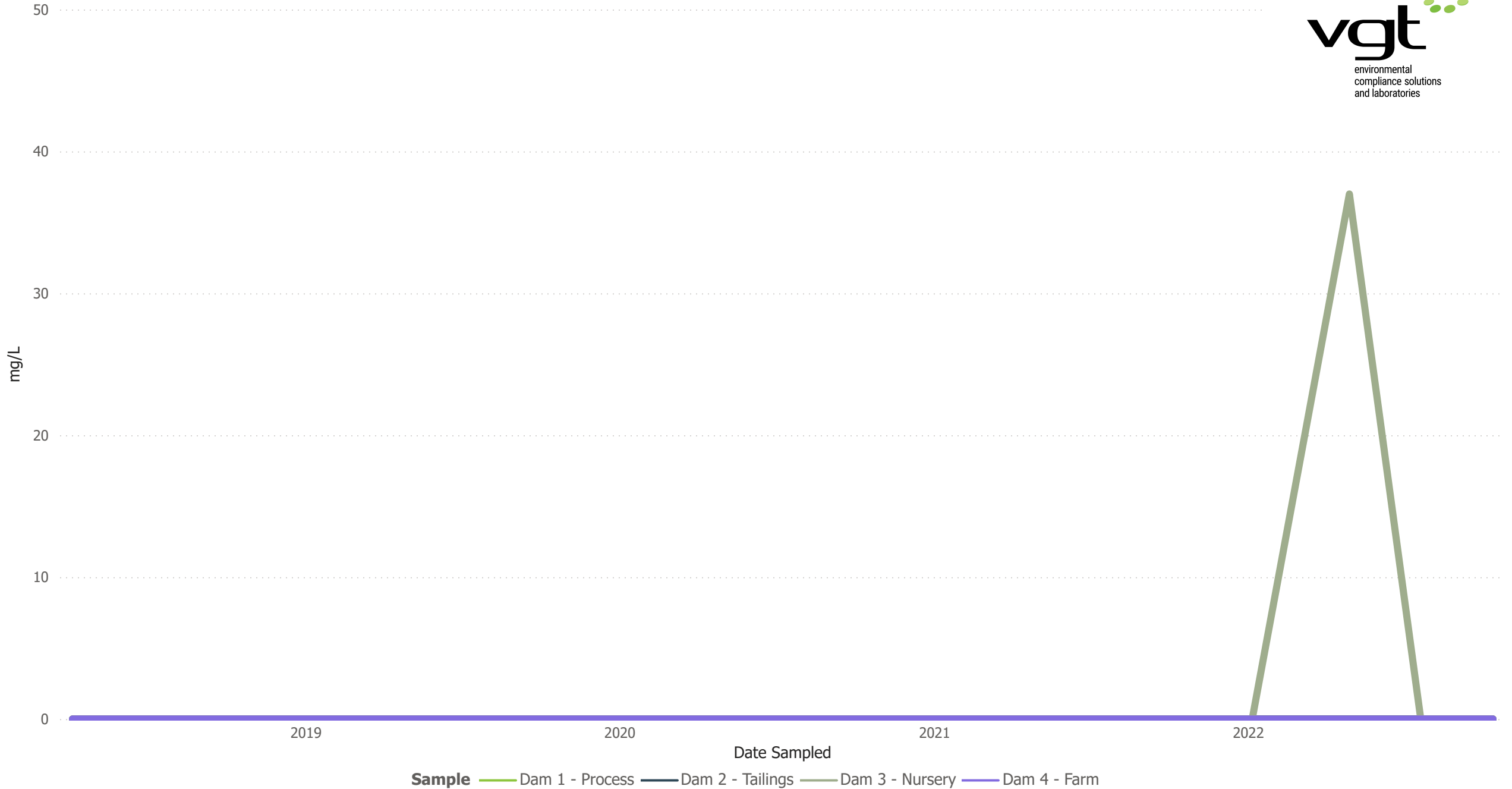
Sulphate



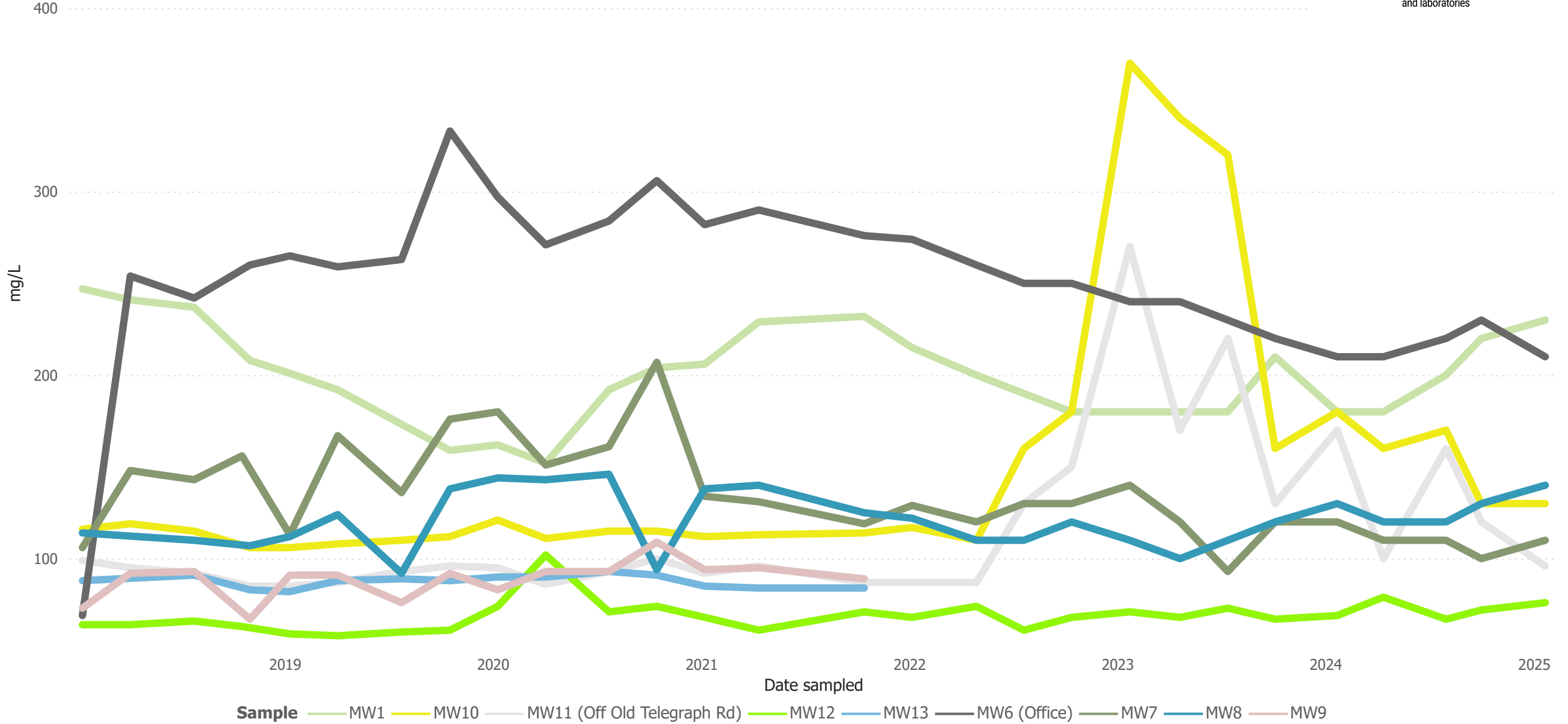
Total Alkalinity



Total Alkalinity



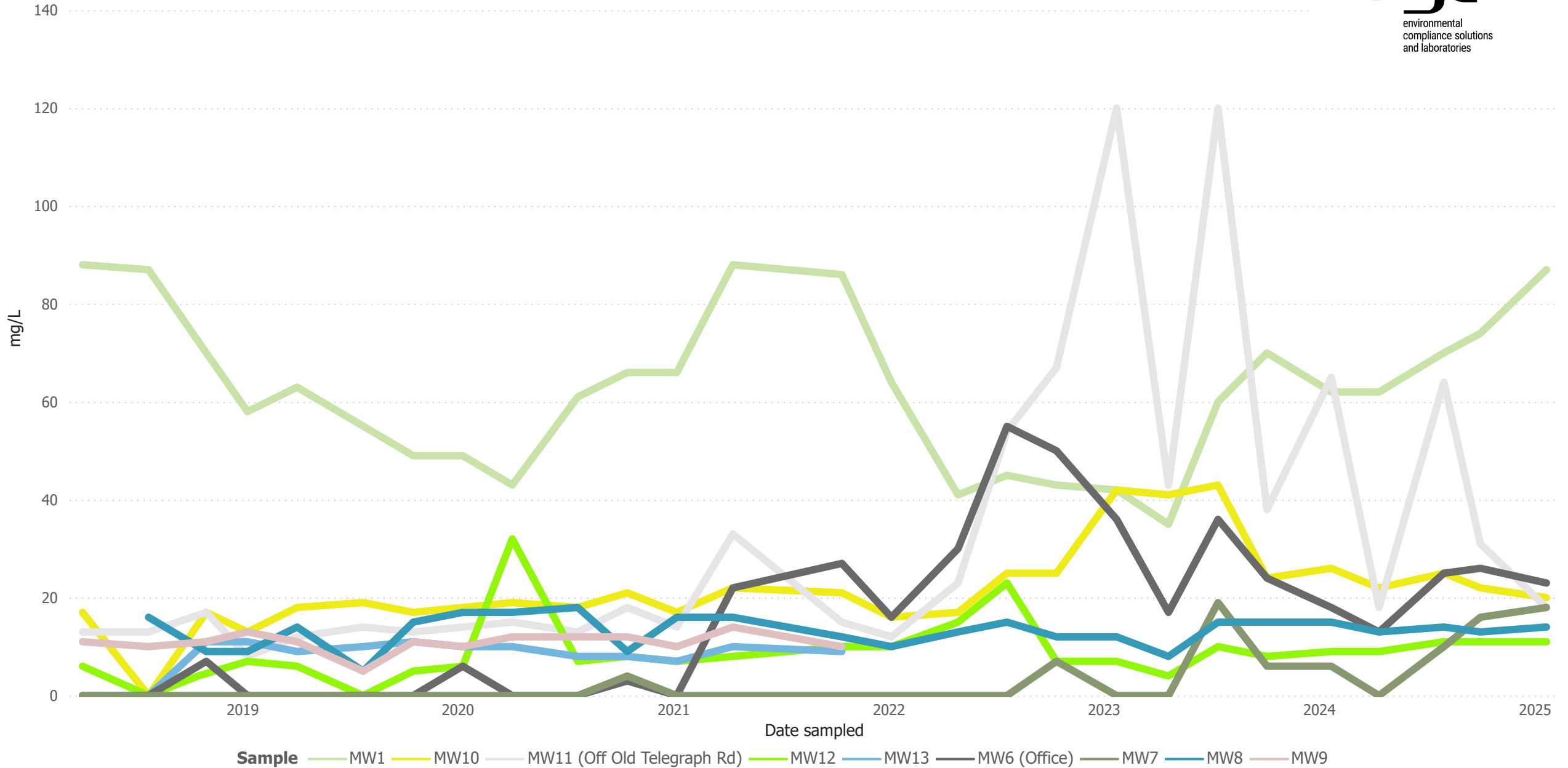
Total Dissolved Solids



Total Dissolved Solids



Total Hardness



Total Hardnes

